# 📁 Folder & File Structure

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# 🧠 Code & Content

### 📄 README.md

# 🏃 Smart Marathon Coach API  
  
This is a Flask-based API for syncing Strava activity data, enriching runs, and generating training insights. This repo is part of a multi-phase project — currently in \*\*Milestone 1: Setup & Plumbing\*\*.  
  
---  
  
## 🚀 Getting Started  
  
### 1. Clone the repo  
  
```bash  
git clone https://github.com/your-username/railway-pg-test.git  
cd railway-pg-test  
  
  
### 2. Set up your virtual environment  
  
```bash  
python -m venv venv  
venv\Scripts\activate # On Windows  
# or  
source venv/bin/activate # On Mac/Linux  
```  
  
### 3. Install dependencies  
  
```bash  
pip install -r requirements.txt  
```  
  
---  
  
## 🛠️ Environment Configuration  
  
Copy the example `.env` file and fill in your secrets:  
  
```bash  
cp .env.example .env  
```  
  
Or manually create `.env` with values like:  
  
```env  
DATABASE\_URL=postgresql://smartcoach:devpass@postgres:5432/smartcoach  
  
# NOTE: For local dev without Docker, change "postgres" → "localhost"  
# DATABASE\_URL=postgresql://smartcoach:devpass@localhost:5432/smartcoach  
  
STRAVA\_CLIENT\_ID=your\_client\_id  
STRAVA\_CLIENT\_SECRET=your\_client\_secret  
REDIRECT\_URI=http://127.0.0.1:5000/oauth/callback  
ADMIN\_USER=admin  
ADMIN\_PASS=secret  
SECRET\_KEY=supersecretkey  
CRON\_SECRET\_KEY=your\_cron\_key  
INTERNAL\_API\_KEY=your\_internal\_key  
  
```  
  
---  
  
## 💻 Running Locally  
  
```bash  
python run.py  
```  
  
Then open [http://127.0.0.1:5000/ping](http://127.0.0.1:5000/ping)   
You should see: `pong`  
  
---  
  
## 🧪 Endpoints (Milestone 1)  
  
| Route | Description |  
|-----------------|----------------------------------|  
| `/ping` | Health check |  
| `/init-db` | Creates DB tables |  
| `/auth/login` | Basic credential-based login |  
| `/auth/logout` | Clear session |  
| `/enrich/status`| Returns enrichment status (stub) |  
  
> More functionality is coming in Milestone 2  
  
---  
  
## 🧬 GitHub Actions  
  
We’ve added a skeleton workflow in `.github/workflows/cron-sync.yml` that:  
  
- Runs every 6 hours  
- Supports manual trigger  
- Runs placeholder logic (future expansion)  
  
---  
  
## 🧩 Project Structure  
  
```bash  
railway-pg-test/  
├── src/  
│ ├── app.py → Flask app entrypoint  
│ ├── routes/ → Route blueprints  
│ ├── services/ → Business logic  
│ ├── db/ → Database models + sessions  
│ └── utils/ → Utility functions  
├── schema.sql → Creates core DB tables  
├── run.py → Runs the app  
├── requirements.txt  
└── .env → Environment variables  
  
```  
  
---  
  
## 📦 Requirements  
  
- Python 3.11+  
- SQLite or Postgres  
- A Strava API App (https://www.strava.com/settings/api)

### 📄 alembic\env.py

import sys  
import os  
  
from dotenv import load\_dotenv  
  
# --- Add project root to sys.path ---  
project\_root = os.path.dirname(os.path.dirname(os.path.abspath(\_\_file\_\_)))  
sys.path.insert(0, project\_root)  
  
# --- Add 'src' folder to sys.path ---  
sys.path.insert(0, os.path.join(project\_root, "src"))  
  
# ✅ Load environment variables from explicit .env path with override  
# ✅ Load the appropriate .env file based on FLASK\_ENV  
# Use FLASK\_ENV or fallback to RAILWAY\_ENVIRONMENT or default to "development"  
env\_mode = os.getenv("FLASK\_ENV") or os.getenv("RAILWAY\_ENVIRONMENT") or "development"  
  
if env\_mode == "testing":  
 env\_file = ".env.test"  
elif env\_mode == "production":  
 env\_file = ".env.prod"  
else:  
 env\_file = ".env"  
  
dotenv\_path = os.path.join(project\_root, env\_file)  
load\_dotenv(dotenv\_path, override=True)  
  
print(f"✅ [Alembic] Loaded environment: {env\_file}")  
  
  
  
print("🚨 DATABASE\_URL =", os.getenv("DATABASE\_URL"))  
  
from logging.config import fileConfig  
from sqlalchemy import engine\_from\_config, create\_engine, pool  
from alembic import context  
  
# DATABASE\_URL after .env is loaded  
DATABASE\_URL = os.getenv("DATABASE\_URL")  
print(f"DEBUG: Using DATABASE\_URL = {DATABASE\_URL}")  
  
if not DATABASE\_URL:  
 raise RuntimeError("DATABASE\_URL environment variable is not set. Alembic cannot continue.")  
  
# Import SQLAlchemy Base AFTER sys.path is fully patched  
from src.db.db\_session import Base  
  
# ✅ Import all models so Alembic can detect schema  
import src.db.models.activities  
import src.db.models.tokens  
import src.db.models.splits  
import src.db.models.athletes  
  
# Alembic Config object  
config = context.config  
  
# Configure logging  
if config.config\_file\_name is not None:  
 fileConfig(config.config\_file\_name)  
  
# Set target metadata for autogenerate  
target\_metadata = Base.metadata  
  
# Inject DATABASE\_URL dynamically for Alembic migrations  
config.set\_main\_option("sqlalchemy.url", DATABASE\_URL)  
  
  
def run\_migrations\_offline():  
 """Run migrations in 'offline' mode (no DB connection)."""  
 url = config.get\_main\_option("sqlalchemy.url")  
 context.configure(  
 url=url,  
 target\_metadata=target\_metadata,  
 literal\_binds=True,  
 compare\_type=True,  
 )  
  
 with context.begin\_transaction():  
 context.run\_migrations()  
  
  
def run\_migrations\_online():  
 """Run migrations in 'online' mode (DB connection active)."""  
 # ✅ Replace with explicit engine creation and echo enabled  
 connectable = create\_engine(  
 DATABASE\_URL,  
 echo=True, # 🔍 Enable SQL echoing  
 poolclass=pool.NullPool,  
 )  
  
 with connectable.connect() as connection:  
 context.configure(  
 connection=connection,  
 target\_metadata=target\_metadata,  
 compare\_type=True,  
 )  
  
 with context.begin\_transaction():  
 context.run\_migrations()  
  
  
if context.is\_offline\_mode():  
 run\_migrations\_offline()  
else:  
 run\_migrations\_online()

### 📄 alembic\versions\07abffe60681\_make\_lap\_index\_nullable.py

"""Make lap\_index nullable  
  
Revision ID: 07abffe60681  
Revises: 475a80332c46  
Create Date: 2025-06-16 18:55:24.799414  
"""  
  
from typing import Sequence, Union  
from alembic import op  
import sqlalchemy as sa  
  
# revision identifiers, used by Alembic.  
revision: str = '07abffe60681'  
down\_revision: Union[str, None] = '475a80332c46'  
branch\_labels: Union[str, Sequence[str], None] = None  
depends\_on: Union[str, Sequence[str], None] = None  
  
def upgrade() -> None:  
 """Allow 'lap\_index' in 'splits' table to be nullable."""  
 op.alter\_column(  
 'splits',  
 'lap\_index',  
 existing\_type=sa.Integer(),  
 nullable=True  
 )  
  
def downgrade() -> None:  
 """Revert 'lap\_index' column in 'splits' table to NOT NULL."""  
 op.alter\_column(  
 'splits',  
 'lap\_index',  
 existing\_type=sa.Integer(),  
 nullable=False  
 )

### 📄 alembic\versions\280430412206\_add\_tokens\_table.py

"""Add tokens table  
  
Revision ID: 280430412206  
Revises: a01b22564ade  
Create Date: 2025-06-14 23:41:27.438877  
"""  
  
from typing import Sequence, Union  
from alembic import op  
import sqlalchemy as sa  
  
# revision identifiers, used by Alembic.  
revision: str = '280430412206'  
down\_revision: Union[str, None] = 'a01b22564ade'  
branch\_labels: Union[str, Sequence[str], None] = None  
depends\_on: Union[str, Sequence[str], None] = None  
  
def upgrade() -> None:  
 """Upgrade schema."""  
 op.create\_table(  
 'tokens',  
 sa.Column('athlete\_id', sa.BigInteger(), nullable=False),  
 sa.Column('access\_token', sa.String(), nullable=False),  
 sa.Column('refresh\_token', sa.String(), nullable=False),  
 sa.Column('expires\_at', sa.BigInteger(), nullable=False),  
 sa.PrimaryKeyConstraint('athlete\_id')  
 )  
  
def downgrade() -> None:  
 """Downgrade schema."""  
 op.drop\_table('tokens')

### 📄 alembic\versions\475a80332c46\_fix\_split\_column\_type\_to\_boolean.py

"""Fix split column type to Boolean  
  
Revision ID: 475a80332c46  
Revises: 280430412206  
Create Date: 2025-06-16 15:05:23.135910  
"""  
  
from typing import Sequence, Union  
from alembic import op  
import sqlalchemy as sa  
  
# revision identifiers  
revision: str = '475a80332c46'  
down\_revision: Union[str, None] = '280430412206'  
branch\_labels: Union[str, Sequence[str], None] = None  
depends\_on: Union[str, Sequence[str], None] = None  
  
def upgrade() -> None:  
 """Convert 'split' column in 'splits' table from INTEGER to BOOLEAN."""  
 op.execute("""  
 ALTER TABLE splits   
 ALTER COLUMN split TYPE BOOLEAN   
 USING CASE  
 WHEN split::INTEGER = 1 THEN TRUE  
 WHEN split::INTEGER = 0 THEN FALSE  
 ELSE NULL  
 END  
 """)  
  
def downgrade() -> None:  
 """Downgrade not implemented due to potential data loss converting from BOOLEAN back to INTEGER."""  
 pass

### 📄 alembic\versions\a01b22564ade\_initial\_baseline.py

"""initial baseline  
  
Revision ID: a01b22564ade  
Revises:   
Create Date: 2025-06-14 23:36:21.153362  
  
"""  
from typing import Sequence, Union  
  
from alembic import op  
import sqlalchemy as sa  
  
  
# revision identifiers, used by Alembic.  
revision: str = 'a01b22564ade'  
down\_revision: Union[str, None] = None  
branch\_labels: Union[str, Sequence[str], None] = None  
depends\_on: Union[str, Sequence[str], None] = None  
  
  
def upgrade() -> None:  
 """Upgrade schema."""  
 # ### commands auto generated by Alembic - please adjust! ###  
 op.create\_table('activities',  
 sa.Column('activity\_id', sa.BigInteger(), nullable=False),  
 sa.Column('athlete\_id', sa.BigInteger(), nullable=False),  
 sa.Column('name', sa.String(), nullable=True),  
 sa.Column('type', sa.String(), nullable=True),  
 sa.Column('start\_date', sa.DateTime(), nullable=True),  
 sa.Column('distance', sa.Float(), nullable=True),  
 sa.Column('elapsed\_time', sa.Integer(), nullable=True),  
 sa.Column('moving\_time', sa.Integer(), nullable=True),  
 sa.Column('total\_elevation\_gain', sa.Float(), nullable=True),  
 sa.Column('external\_id', sa.String(), nullable=True),  
 sa.Column('timezone', sa.String(), nullable=True),  
 sa.Column('average\_speed', sa.Float(), nullable=True),  
 sa.Column('max\_speed', sa.Float(), nullable=True),  
 sa.Column('suffer\_score', sa.Float(), nullable=True),  
 sa.Column('average\_heartrate', sa.Float(), nullable=True),  
 sa.Column('max\_heartrate', sa.Float(), nullable=True),  
 sa.Column('calories', sa.Float(), nullable=True),  
 sa.Column('conv\_distance', sa.Float(), nullable=True),  
 sa.Column('conv\_elevation\_feet', sa.Float(), nullable=True),  
 sa.Column('conv\_avg\_speed', sa.Float(), nullable=True),  
 sa.Column('conv\_max\_speed', sa.Float(), nullable=True),  
 sa.Column('conv\_moving\_time', sa.String(), nullable=True),  
 sa.Column('conv\_elapsed\_time', sa.String(), nullable=True),  
 sa.Column('hr\_zone\_1', sa.Float(), nullable=True),  
 sa.Column('hr\_zone\_2', sa.Float(), nullable=True),  
 sa.Column('hr\_zone\_3', sa.Float(), nullable=True),  
 sa.Column('hr\_zone\_4', sa.Float(), nullable=True),  
 sa.Column('hr\_zone\_5', sa.Float(), nullable=True),  
 sa.PrimaryKeyConstraint('activity\_id')  
 )  
 op.create\_index(op.f('ix\_activities\_activity\_id'), 'activities', ['activity\_id'], unique=False)  
 op.create\_index(op.f('ix\_activities\_athlete\_id'), 'activities', ['athlete\_id'], unique=False)  
 op.create\_table('athletes',  
 sa.Column('id', sa.Integer(), nullable=False),  
 sa.Column('strava\_athlete\_id', sa.BigInteger(), nullable=False),  
 sa.Column('name', sa.String(), nullable=True),  
 sa.Column('email', sa.String(), nullable=True),  
 sa.Column('created\_at', sa.DateTime(), server\_default=sa.text('now()'), nullable=True),  
 sa.PrimaryKeyConstraint('id'),  
 sa.UniqueConstraint('strava\_athlete\_id')  
 )  
 op.create\_table('splits',  
 sa.Column('id', sa.Integer(), nullable=False),  
 sa.Column('activity\_id', sa.BigInteger(), nullable=False),  
 sa.Column('lap\_index', sa.Integer(), nullable=False),  
 sa.Column('distance', sa.Float(), nullable=True),  
 sa.Column('elapsed\_time', sa.Integer(), nullable=True),  
 sa.Column('moving\_time', sa.Integer(), nullable=True),  
 sa.Column('average\_speed', sa.Float(), nullable=True),  
 sa.Column('max\_speed', sa.Float(), nullable=True),  
 sa.Column('start\_index', sa.Integer(), nullable=True),  
 sa.Column('end\_index', sa.Integer(), nullable=True),  
 sa.Column('split', sa.Boolean(), nullable=True),  
 sa.Column('average\_heartrate', sa.Float(), nullable=True),  
 sa.Column('pace\_zone', sa.Integer(), nullable=True),  
 sa.Column('created\_at', sa.TIMESTAMP(), server\_default=sa.text('now()'), nullable=True),  
 sa.Column('conv\_distance', sa.Float(), nullable=True),  
 sa.Column('conv\_avg\_speed', sa.Float(), nullable=True),  
 sa.Column('conv\_moving\_time', sa.String(), nullable=True),  
 sa.Column('conv\_elapsed\_time', sa.String(), nullable=True),  
 sa.ForeignKeyConstraint(['activity\_id'], ['activities.activity\_id'], ondelete='CASCADE'),  
 sa.PrimaryKeyConstraint('id'),  
 sa.UniqueConstraint('activity\_id', 'lap\_index', name='uq\_activity\_lap')  
 )  
 # ### end Alembic commands ###  
  
  
def downgrade() -> None:  
 """Downgrade schema."""  
 # ### commands auto generated by Alembic - please adjust! ###  
 op.drop\_table('splits')  
 op.drop\_table('athletes')  
 op.drop\_index(op.f('ix\_activities\_athlete\_id'), table\_name='activities')  
 op.drop\_index(op.f('ix\_activities\_activity\_id'), table\_name='activities')  
 op.drop\_table('activities')  
 # ### end Alembic commands ###

### 📄 alembic\versions\f23968f5fa38\_fix\_split\_column\_to\_integer.py

"""Fix split column back to INTEGER"""  
  
from typing import Sequence, Union  
from alembic import op  
import sqlalchemy as sa  
  
# revision identifiers  
revision: str = 'f23968f5fa38'  
down\_revision: Union[str, None] = '07abffe60681'  
branch\_labels: Union[str, Sequence[str], None] = None  
depends\_on: Union[str, Sequence[str], None] = None  
  
def upgrade() -> None:  
 op.execute("""  
 ALTER TABLE splits   
 ALTER COLUMN split TYPE INTEGER   
 USING split::INTEGER  
 """)  
  
def downgrade() -> None:  
 op.execute("""  
 ALTER TABLE splits   
 ALTER COLUMN split TYPE INTEGER   
 USING CASE  
 WHEN split = TRUE THEN 1  
 WHEN split = FALSE THEN 0  
 ELSE NULL  
 END  
 """)

### 📄 app\staging\_auth\_app.py

# staging\_auth\_app.py  
  
import os  
import sys  
sys.path.insert(0, os.path.join(os.path.dirname(\_\_file\_\_), "src"))  
  
from flask import Flask, redirect, request, jsonify  
from src.services.token\_service import get\_authorization\_url, store\_tokens\_from\_callback  
from src.db.db\_session import get\_session  
  
app = Flask(\_\_name\_\_)  
  
@app.route("/auth/login")  
def strava\_login():  
 """  
 Redirect to Strava OAuth URL (called manually from browser)  
 """  
 return redirect(get\_authorization\_url())  
  
  
@app.route("/auth/callback")  
def strava\_callback():  
 """  
 Handle OAuth redirect from Strava, exchange code, and persist tokens.  
 """  
 session = get\_session()  
 try:  
 code = request.args.get("code")  
 if not code:  
 return "Missing OAuth code", 400  
  
 athlete\_id = store\_tokens\_from\_callback(code, session)  
 return jsonify({  
 "status": "✅ Token stored",  
 "athlete\_id": athlete\_id  
 })  
 except Exception as e:  
 return jsonify({"error": str(e)}), 500  
 finally:  
 session.close()  
  
  
@app.route("/ping")  
def ping():  
 return "pong from staging OAuth app"

### 📄 htmlcov\class\_index.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage report</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="indexfile">  
<header>  
 <div class="content">  
 <h1>Coverage report:  
 <span class="pc\_cov">74%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>f</kbd>  
 <kbd>n</kbd>  
 <kbd>s</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 <kbd>c</kbd>  
 &nbsp; change column sorting  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <form id="filter\_container">  
 <input id="filter" type="text" value="" placeholder="filter...">  
 <div>  
 <input id="hide100" type="checkbox" >  
 <label for="hide100">hide covered</label>  
 </div>  
 </form>  
 <h2>  
 <a class="button" href="index.html">Files</a>  
 <a class="button" href="function\_index.html">Functions</a>  
 <a class="button current">Classes</a>  
 </h2>  
 <p class="text">  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 13:38 -0500  
 </p>  
 </div>  
</header>  
<main id="index">  
 <table class="index" data-sortable>  
 <thead>  
 <tr class="tablehead" title="Click to sort">  
 <th id="file" class="name left" aria-sort="none" data-shortcut="f">File<span class="arrows"></span></th>  
 <th id="region" class="name left" aria-sort="none" data-default-sort-order="ascending" data-shortcut="n">class<span class="arrows"></span></th>  
 <th id="statements" aria-sort="none" data-default-sort-order="descending" data-shortcut="s">statements<span class="arrows"></span></th>  
 <th id="missing" aria-sort="none" data-default-sort-order="descending" data-shortcut="m">missing<span class="arrows"></span></th>  
 <th id="excluded" aria-sort="none" data-default-sort-order="descending" data-shortcut="x">excluded<span class="arrows"></span></th>  
 <th id="coverage" class="right" aria-sort="none" data-shortcut="c">coverage<span class="arrows"></span></th>  
 </tr>  
 </thead>  
 <tbody>  
 <tr class="region">  
 <td class="name left"><a href="z\_145eef247bfb46b6\_\_\_init\_\_\_py.html">src\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_145eef247bfb46b6\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html">src\app.py</a></td>  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>56</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="56 56">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_\_\_init\_\_\_py.html">src\db\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_\_\_init\_\_\_py.html">src\db\dao\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html#t7">src\db\dao\activity\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html#t7"><data value='ActivityDAO'>ActivityDAO</data></a></td>  
 <td>16</td>  
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 <td>0</td>  
 <td class="right" data-ratio="16 16">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html">src\db\dao\activity\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>9</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="9 9">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html">src\db\dao\athlete\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>14</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="14 14">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_split\_dao\_py.html">src\db\dao\split\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_split\_dao\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>29</td>  
 <td>4</td>  
 <td>0</td>  
 <td class="right" data-ratio="25 29">86%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html">src\db\dao\token\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>17</td>  
 <td>6</td>  
 <td>0</td>  
 <td class="right" data-ratio="11 17">65%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_db\_session\_py.html">src\db\db\_session.py</a></td>  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_db\_session\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>13</td>  
 <td>1</td>  
 <td>0</td>  
 <td class="right" data-ratio="12 13">92%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_\_\_init\_\_\_py.html">src\db\models\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_activities\_py.html#t4">src\db\models\activities.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_activities\_py.html#t4"><data value='Activity'>Activity</data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_activities\_py.html">src\db\models\activities.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_activities\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>32</td>  
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 <td>0</td>  
 <td class="right" data-ratio="32 32">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_athletes\_py.html#t4">src\db\models\athletes.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_athletes\_py.html#t4"><data value='Athlete'>Athlete</data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_athletes\_py.html">src\db\models\athletes.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_athletes\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>9</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="9 9">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_splits\_py.html#t17">src\db\models\splits.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_splits\_py.html#t17"><data value='Split'>Split</data></a></td>  
 <td>0</td>  
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 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_splits\_py.html">src\db\models\splits.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_splits\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>33</td>  
 <td>5</td>  
 <td>0</td>  
 <td class="right" data-ratio="28 33">85%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_tokens\_py.html#t4">src\db\models\tokens.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_tokens\_py.html#t4"><data value='Token'>Token</data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_tokens\_py.html">src\db\models\tokens.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_tokens\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>8</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="8 8">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_91a712da898ee42e\_\_\_init\_\_\_py.html">src\routes\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_91a712da898ee42e\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_91a712da898ee42e\_activity\_routes\_py.html">src\routes\activity\_routes.py</a></td>  
 <td class="name left"><a href="z\_91a712da898ee42e\_activity\_routes\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>55</td>  
 <td>9</td>  
 <td>0</td>  
 <td class="right" data-ratio="46 55">84%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_91a712da898ee42e\_admin\_routes\_py.html">src\routes\admin\_routes.py</a></td>  
 <td class="name left"><a href="z\_91a712da898ee42e\_admin\_routes\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>5</td>  
 <td>1</td>  
 <td>0</td>  
 <td class="right" data-ratio="4 5">80%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_91a712da898ee42e\_auth\_routes\_py.html">src\routes\auth\_routes.py</a></td>  
 <td class="name left"><a href="z\_91a712da898ee42e\_auth\_routes\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>88</td>  
 <td>9</td>  
 <td>0</td>  
 <td class="right" data-ratio="79 88">90%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_fa000675cb663943\_\_\_init\_\_\_py.html">src\scripts\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_fa000675cb663943\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_fa000675cb663943\_main\_pipeline\_py.html">src\scripts\main\_pipeline.py</a></td>  
 <td class="name left"><a href="z\_fa000675cb663943\_main\_pipeline\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>38</td>  
 <td>4</td>  
 <td>0</td>  
 <td class="right" data-ratio="34 38">89%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_\_\_init\_\_\_py.html">src\services\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html#t214">src\services\activity\_service.py</a></td>  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html#t214"><data value='ActivityIngestionService'>ActivityIngestionService</data></a></td>  
 <td>12</td>  
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 <td>0</td>  
 <td class="right" data-ratio="12 12">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html">src\services\activity\_service.py</a></td>  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>112</td>  
 <td>13</td>  
 <td>0</td>  
 <td class="right" data-ratio="99 112">88%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_ingestion\_orchestrator\_service\_py.html">src\services\ingestion\_orchestrator\_service.py</a></td>  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_ingestion\_orchestrator\_service\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>50</td>  
 <td>13</td>  
 <td>0</td>  
 <td class="right" data-ratio="37 50">74%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html#t6">src\services\strava\_access\_service.py</a></td>  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html#t6"><data value='StravaClient'>StravaClient</data></a></td>  
 <td>59</td>  
 <td>9</td>  
 <td>0</td>  
 <td class="right" data-ratio="50 59">85%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html">src\services\strava\_access\_service.py</a></td>  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>11</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="11 11">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_token\_service\_py.html">src\services\token\_service.py</a></td>  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_token\_service\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>97</td>  
 <td>4</td>  
 <td>0</td>  
 <td class="right" data-ratio="93 97">96%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_\_\_init\_\_\_py.html">src\utils\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_config\_py.html">src\utils\config.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_config\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>18</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="18 18">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_conversions\_py.html">src\utils\conversions.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_conversions\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>41</td>  
 <td>4</td>  
 <td>0</td>  
 <td class="right" data-ratio="37 41">90%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_generate\_gpt\_handoff\_summary\_py.html">src\utils\generate\_gpt\_handoff\_summary.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_generate\_gpt\_handoff\_summary\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>67</td>  
 <td>67</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 67">0%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_gpt\_ops\_py.html">src\utils\gpt\_ops.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_gpt\_ops\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>37</td>  
 <td>37</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 37">0%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_jwt\_utils\_py.html">src\utils\jwt\_utils.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_jwt\_utils\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>32</td>  
 <td>1</td>  
 <td>0</td>  
 <td class="right" data-ratio="31 32">97%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_logger\_py.html">src\utils\logger.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_logger\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>4</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="4 4">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html">src\utils\map\_and\_extract\_Railway.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html"><data value=''><span class='no-noun'>(no class)</span></data></a></td>  
 <td>89</td>  
 <td>89</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 89">0%</td>  
 </tr>  
 </tbody>  
 <tfoot>  
 <tr class="total">  
 <td class="name left">Total</td>  
 <td class="name left">&nbsp;</td>  
 <td>1051</td>  
 <td>276</td>  
 <td>0</td>  
 <td class="right" data-ratio="775 1051">74%</td>  
 </tr>  
 </tfoot>  
 </table>  
 <p id="no\_rows">  
 No items found using the specified filter.  
 </p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 13:38 -0500  
 </p>  
 </div>  
 <aside class="hidden">  
 <a id="prevFileLink" class="nav" href=""></a>  
 <a id="nextFileLink" class="nav" href=""></a>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
</footer>  
</body>  
</html>

### 📄 htmlcov\coverage\_html\_cb\_497bf287.js

// Licensed under the Apache License: http://www.apache.org/licenses/LICENSE-2.0  
// For details: https://github.com/nedbat/coveragepy/blob/master/NOTICE.txt  
  
// Coverage.py HTML report browser code.  
/\*jslint browser: true, sloppy: true, vars: true, plusplus: true, maxerr: 50, indent: 4 \*/  
/\*global coverage: true, document, window, $ \*/  
  
coverage = {};  
  
// General helpers  
function debounce(callback, wait) {  
 let timeoutId = null;  
 return function(...args) {  
 clearTimeout(timeoutId);  
 timeoutId = setTimeout(() => {  
 callback.apply(this, args);  
 }, wait);  
 };  
};  
  
function checkVisible(element) {  
 const rect = element.getBoundingClientRect();  
 const viewBottom = Math.max(document.documentElement.clientHeight, window.innerHeight);  
 const viewTop = 30;  
 return !(rect.bottom < viewTop || rect.top >= viewBottom);  
}  
  
function on\_click(sel, fn) {  
 const elt = document.querySelector(sel);  
 if (elt) {  
 elt.addEventListener("click", fn);  
 }  
}  
  
// Helpers for table sorting  
function getCellValue(row, column = 0) {  
 const cell = row.cells[column] // nosemgrep: eslint.detect-object-injection  
 if (cell.childElementCount == 1) {  
 var child = cell.firstElementChild;  
 if (child.tagName === "A") {  
 child = child.firstElementChild;  
 }  
 if (child instanceof HTMLDataElement && child.value) {  
 return child.value;  
 }  
 }  
 return cell.innerText || cell.textContent;  
}  
  
function rowComparator(rowA, rowB, column = 0) {  
 let valueA = getCellValue(rowA, column);  
 let valueB = getCellValue(rowB, column);  
 if (!isNaN(valueA) && !isNaN(valueB)) {  
 return valueA - valueB;  
 }  
 return valueA.localeCompare(valueB, undefined, {numeric: true});  
}  
  
function sortColumn(th) {  
 // Get the current sorting direction of the selected header,  
 // clear state on other headers and then set the new sorting direction.  
 const currentSortOrder = th.getAttribute("aria-sort");  
 [...th.parentElement.cells].forEach(header => header.setAttribute("aria-sort", "none"));  
 var direction;  
 if (currentSortOrder === "none") {  
 direction = th.dataset.defaultSortOrder || "ascending";  
 }  
 else if (currentSortOrder === "ascending") {  
 direction = "descending";  
 }  
 else {  
 direction = "ascending";  
 }  
 th.setAttribute("aria-sort", direction);  
  
 const column = [...th.parentElement.cells].indexOf(th)  
  
 // Sort all rows and afterwards append them in order to move them in the DOM.  
 Array.from(th.closest("table").querySelectorAll("tbody tr"))  
 .sort((rowA, rowB) => rowComparator(rowA, rowB, column) \* (direction === "ascending" ? 1 : -1))  
 .forEach(tr => tr.parentElement.appendChild(tr));  
  
 // Save the sort order for next time.  
 if (th.id !== "region") {  
 let th\_id = "file"; // Sort by file if we don't have a column id  
 let current\_direction = direction;  
 const stored\_list = localStorage.getItem(coverage.INDEX\_SORT\_STORAGE);  
 if (stored\_list) {  
 ({th\_id, direction} = JSON.parse(stored\_list))  
 }  
 localStorage.setItem(coverage.INDEX\_SORT\_STORAGE, JSON.stringify({  
 "th\_id": th.id,  
 "direction": current\_direction  
 }));  
 if (th.id !== th\_id || document.getElementById("region")) {  
 // Sort column has changed, unset sorting by function or class.  
 localStorage.setItem(coverage.SORTED\_BY\_REGION, JSON.stringify({  
 "by\_region": false,  
 "region\_direction": current\_direction  
 }));  
 }  
 }  
 else {  
 // Sort column has changed to by function or class, remember that.  
 localStorage.setItem(coverage.SORTED\_BY\_REGION, JSON.stringify({  
 "by\_region": true,  
 "region\_direction": direction  
 }));  
 }  
}  
  
// Find all the elements with data-shortcut attribute, and use them to assign a shortcut key.  
coverage.assign\_shortkeys = function () {  
 document.querySelectorAll("[data-shortcut]").forEach(element => {  
 document.addEventListener("keypress", event => {  
 if (event.target.tagName.toLowerCase() === "input") {  
 return; // ignore keypress from search filter  
 }  
 if (event.key === element.dataset.shortcut) {  
 element.click();  
 }  
 });  
 });  
};  
  
// Create the events for the filter box.  
coverage.wire\_up\_filter = function () {  
 // Populate the filter and hide100 inputs if there are saved values for them.  
 const saved\_filter\_value = localStorage.getItem(coverage.FILTER\_STORAGE);  
 if (saved\_filter\_value) {  
 document.getElementById("filter").value = saved\_filter\_value;  
 }  
 const saved\_hide100\_value = localStorage.getItem(coverage.HIDE100\_STORAGE);  
 if (saved\_hide100\_value) {  
 document.getElementById("hide100").checked = JSON.parse(saved\_hide100\_value);  
 }  
  
 // Cache elements.  
 const table = document.querySelector("table.index");  
 const table\_body\_rows = table.querySelectorAll("tbody tr");  
 const no\_rows = document.getElementById("no\_rows");  
  
 // Observe filter keyevents.  
 const filter\_handler = (event => {  
 // Keep running total of each metric, first index contains number of shown rows  
 const totals = new Array(table.rows[0].cells.length).fill(0);  
 // Accumulate the percentage as fraction  
 totals[totals.length - 1] = { "numer": 0, "denom": 0 }; // nosemgrep: eslint.detect-object-injection  
  
 var text = document.getElementById("filter").value;  
 // Store filter value  
 localStorage.setItem(coverage.FILTER\_STORAGE, text);  
 const casefold = (text === text.toLowerCase());  
 const hide100 = document.getElementById("hide100").checked;  
 // Store hide value.  
 localStorage.setItem(coverage.HIDE100\_STORAGE, JSON.stringify(hide100));  
  
 // Hide / show elements.  
 table\_body\_rows.forEach(row => {  
 var show = false;  
 // Check the text filter.  
 for (let column = 0; column < totals.length; column++) {  
 cell = row.cells[column];  
 if (cell.classList.contains("name")) {  
 var celltext = cell.textContent;  
 if (casefold) {  
 celltext = celltext.toLowerCase();  
 }  
 if (celltext.includes(text)) {  
 show = true;  
 }  
 }  
 }  
  
 // Check the "hide covered" filter.  
 if (show && hide100) {  
 const [numer, denom] = row.cells[row.cells.length - 1].dataset.ratio.split(" ");  
 show = (numer !== denom);  
 }  
  
 if (!show) {  
 // hide  
 row.classList.add("hidden");  
 return;  
 }  
  
 // show  
 row.classList.remove("hidden");  
 totals[0]++;  
  
 for (let column = 0; column < totals.length; column++) {  
 // Accumulate dynamic totals  
 cell = row.cells[column] // nosemgrep: eslint.detect-object-injection  
 if (cell.classList.contains("name")) {  
 continue;  
 }  
 if (column === totals.length - 1) {  
 // Last column contains percentage  
 const [numer, denom] = cell.dataset.ratio.split(" ");  
 totals[column]["numer"] += parseInt(numer, 10); // nosemgrep: eslint.detect-object-injection  
 totals[column]["denom"] += parseInt(denom, 10); // nosemgrep: eslint.detect-object-injection  
 }  
 else {  
 totals[column] += parseInt(cell.textContent, 10); // nosemgrep: eslint.detect-object-injection  
 }  
 }  
 });  
  
 // Show placeholder if no rows will be displayed.  
 if (!totals[0]) {  
 // Show placeholder, hide table.  
 no\_rows.style.display = "block";  
 table.style.display = "none";  
 return;  
 }  
  
 // Hide placeholder, show table.  
 no\_rows.style.display = null;  
 table.style.display = null;  
  
 const footer = table.tFoot.rows[0];  
 // Calculate new dynamic sum values based on visible rows.  
 for (let column = 0; column < totals.length; column++) {  
 // Get footer cell element.  
 const cell = footer.cells[column]; // nosemgrep: eslint.detect-object-injection  
 if (cell.classList.contains("name")) {  
 continue;  
 }  
  
 // Set value into dynamic footer cell element.  
 if (column === totals.length - 1) {  
 // Percentage column uses the numerator and denominator,  
 // and adapts to the number of decimal places.  
 const match = /\.([0-9]+)/.exec(cell.textContent);  
 const places = match ? match[1].length : 0;  
 const { numer, denom } = totals[column]; // nosemgrep: eslint.detect-object-injection  
 cell.dataset.ratio = `${numer} ${denom}`;  
 // Check denom to prevent NaN if filtered files contain no statements  
 cell.textContent = denom  
 ? `${(numer \* 100 / denom).toFixed(places)}%`  
 : `${(100).toFixed(places)}%`;  
 }  
 else {  
 cell.textContent = totals[column]; // nosemgrep: eslint.detect-object-injection  
 }  
 }  
 });  
  
 document.getElementById("filter").addEventListener("input", debounce(filter\_handler));  
 document.getElementById("hide100").addEventListener("input", debounce(filter\_handler));  
  
 // Trigger change event on setup, to force filter on page refresh  
 // (filter value may still be present).  
 document.getElementById("filter").dispatchEvent(new Event("input"));  
 document.getElementById("hide100").dispatchEvent(new Event("input"));  
};  
coverage.FILTER\_STORAGE = "COVERAGE\_FILTER\_VALUE";  
coverage.HIDE100\_STORAGE = "COVERAGE\_HIDE100\_VALUE";  
  
// Set up the click-to-sort columns.  
coverage.wire\_up\_sorting = function () {  
 document.querySelectorAll("[data-sortable] th[aria-sort]").forEach(  
 th => th.addEventListener("click", e => sortColumn(e.target))  
 );  
  
 // Look for a localStorage item containing previous sort settings:  
 let th\_id = "file", direction = "ascending";  
 const stored\_list = localStorage.getItem(coverage.INDEX\_SORT\_STORAGE);  
 if (stored\_list) {  
 ({th\_id, direction} = JSON.parse(stored\_list));  
 }  
 let by\_region = false, region\_direction = "ascending";  
 const sorted\_by\_region = localStorage.getItem(coverage.SORTED\_BY\_REGION);  
 if (sorted\_by\_region) {  
 ({  
 by\_region,  
 region\_direction  
 } = JSON.parse(sorted\_by\_region));  
 }  
  
 const region\_id = "region";  
 if (by\_region && document.getElementById(region\_id)) {  
 direction = region\_direction;  
 }  
 // If we are in a page that has a column with id of "region", sort on  
 // it if the last sort was by function or class.  
 let th;  
 if (document.getElementById(region\_id)) {  
 th = document.getElementById(by\_region ? region\_id : th\_id);  
 }  
 else {  
 th = document.getElementById(th\_id);  
 }  
 th.setAttribute("aria-sort", direction === "ascending" ? "descending" : "ascending");  
 th.click()  
};  
  
coverage.INDEX\_SORT\_STORAGE = "COVERAGE\_INDEX\_SORT\_2";  
coverage.SORTED\_BY\_REGION = "COVERAGE\_SORT\_REGION";  
  
// Loaded on index.html  
coverage.index\_ready = function () {  
 coverage.assign\_shortkeys();  
 coverage.wire\_up\_filter();  
 coverage.wire\_up\_sorting();  
  
 on\_click(".button\_prev\_file", coverage.to\_prev\_file);  
 on\_click(".button\_next\_file", coverage.to\_next\_file);  
  
 on\_click(".button\_show\_hide\_help", coverage.show\_hide\_help);  
};  
  
// -- pyfile stuff --  
  
coverage.LINE\_FILTERS\_STORAGE = "COVERAGE\_LINE\_FILTERS";  
  
coverage.pyfile\_ready = function () {  
 // If we're directed to a particular line number, highlight the line.  
 var frag = location.hash;  
 if (frag.length > 2 && frag[1] === "t") {  
 document.querySelector(frag).closest(".n").classList.add("highlight");  
 coverage.set\_sel(parseInt(frag.substr(2), 10));  
 }  
 else {  
 coverage.set\_sel(0);  
 }  
  
 on\_click(".button\_toggle\_run", coverage.toggle\_lines);  
 on\_click(".button\_toggle\_mis", coverage.toggle\_lines);  
 on\_click(".button\_toggle\_exc", coverage.toggle\_lines);  
 on\_click(".button\_toggle\_par", coverage.toggle\_lines);  
  
 on\_click(".button\_next\_chunk", coverage.to\_next\_chunk\_nicely);  
 on\_click(".button\_prev\_chunk", coverage.to\_prev\_chunk\_nicely);  
 on\_click(".button\_top\_of\_page", coverage.to\_top);  
 on\_click(".button\_first\_chunk", coverage.to\_first\_chunk);  
  
 on\_click(".button\_prev\_file", coverage.to\_prev\_file);  
 on\_click(".button\_next\_file", coverage.to\_next\_file);  
 on\_click(".button\_to\_index", coverage.to\_index);  
  
 on\_click(".button\_show\_hide\_help", coverage.show\_hide\_help);  
  
 coverage.filters = undefined;  
 try {  
 coverage.filters = localStorage.getItem(coverage.LINE\_FILTERS\_STORAGE);  
 } catch(err) {}  
  
 if (coverage.filters) {  
 coverage.filters = JSON.parse(coverage.filters);  
 }  
 else {  
 coverage.filters = {run: false, exc: true, mis: true, par: true};  
 }  
  
 for (cls in coverage.filters) {  
 coverage.set\_line\_visibilty(cls, coverage.filters[cls]); // nosemgrep: eslint.detect-object-injection  
 }  
  
 coverage.assign\_shortkeys();  
 coverage.init\_scroll\_markers();  
 coverage.wire\_up\_sticky\_header();  
  
 document.querySelectorAll("[id^=ctxs]").forEach(  
 cbox => cbox.addEventListener("click", coverage.expand\_contexts)  
 );  
  
 // Rebuild scroll markers when the window height changes.  
 window.addEventListener("resize", coverage.build\_scroll\_markers);  
};  
  
coverage.toggle\_lines = function (event) {  
 const btn = event.target.closest("button");  
 const category = btn.value  
 const show = !btn.classList.contains("show\_" + category);  
 coverage.set\_line\_visibilty(category, show);  
 coverage.build\_scroll\_markers();  
 coverage.filters[category] = show;  
 try {  
 localStorage.setItem(coverage.LINE\_FILTERS\_STORAGE, JSON.stringify(coverage.filters));  
 } catch(err) {}  
};  
  
coverage.set\_line\_visibilty = function (category, should\_show) {  
 const cls = "show\_" + category;  
 const btn = document.querySelector(".button\_toggle\_" + category);  
 if (btn) {  
 if (should\_show) {  
 document.querySelectorAll("#source ." + category).forEach(e => e.classList.add(cls));  
 btn.classList.add(cls);  
 }  
 else {  
 document.querySelectorAll("#source ." + category).forEach(e => e.classList.remove(cls));  
 btn.classList.remove(cls);  
 }  
 }  
};  
  
// Return the nth line div.  
coverage.line\_elt = function (n) {  
 return document.getElementById("t" + n)?.closest("p");  
};  
  
// Set the selection. b and e are line numbers.  
coverage.set\_sel = function (b, e) {  
 // The first line selected.  
 coverage.sel\_begin = b;  
 // The next line not selected.  
 coverage.sel\_end = (e === undefined) ? b+1 : e;  
};  
  
coverage.to\_top = function () {  
 coverage.set\_sel(0, 1);  
 coverage.scroll\_window(0);  
};  
  
coverage.to\_first\_chunk = function () {  
 coverage.set\_sel(0, 1);  
 coverage.to\_next\_chunk();  
};  
  
coverage.to\_prev\_file = function () {  
 window.location = document.getElementById("prevFileLink").href;  
}  
  
coverage.to\_next\_file = function () {  
 window.location = document.getElementById("nextFileLink").href;  
}  
  
coverage.to\_index = function () {  
 location.href = document.getElementById("indexLink").href;  
}  
  
coverage.show\_hide\_help = function () {  
 const helpCheck = document.getElementById("help\_panel\_state")  
 helpCheck.checked = !helpCheck.checked;  
}  
  
// Return a string indicating what kind of chunk this line belongs to,  
// or null if not a chunk.  
coverage.chunk\_indicator = function (line\_elt) {  
 const classes = line\_elt?.className;  
 if (!classes) {  
 return null;  
 }  
 const match = classes.match(/\bshow\_\w+\b/);  
 if (!match) {  
 return null;  
 }  
 return match[0];  
};  
  
coverage.to\_next\_chunk = function () {  
 const c = coverage;  
  
 // Find the start of the next colored chunk.  
 var probe = c.sel\_end;  
 var chunk\_indicator, probe\_line;  
 while (true) {  
 probe\_line = c.line\_elt(probe);  
 if (!probe\_line) {  
 return;  
 }  
 chunk\_indicator = c.chunk\_indicator(probe\_line);  
 if (chunk\_indicator) {  
 break;  
 }  
 probe++;  
 }  
  
 // There's a next chunk, `probe` points to it.  
 var begin = probe;  
  
 // Find the end of this chunk.  
 var next\_indicator = chunk\_indicator;  
 while (next\_indicator === chunk\_indicator) {  
 probe++;  
 probe\_line = c.line\_elt(probe);  
 next\_indicator = c.chunk\_indicator(probe\_line);  
 }  
 c.set\_sel(begin, probe);  
 c.show\_selection();  
};  
  
coverage.to\_prev\_chunk = function () {  
 const c = coverage;  
  
 // Find the end of the prev colored chunk.  
 var probe = c.sel\_begin-1;  
 var probe\_line = c.line\_elt(probe);  
 if (!probe\_line) {  
 return;  
 }  
 var chunk\_indicator = c.chunk\_indicator(probe\_line);  
 while (probe > 1 && !chunk\_indicator) {  
 probe--;  
 probe\_line = c.line\_elt(probe);  
 if (!probe\_line) {  
 return;  
 }  
 chunk\_indicator = c.chunk\_indicator(probe\_line);  
 }  
  
 // There's a prev chunk, `probe` points to its last line.  
 var end = probe+1;  
  
 // Find the beginning of this chunk.  
 var prev\_indicator = chunk\_indicator;  
 while (prev\_indicator === chunk\_indicator) {  
 probe--;  
 if (probe <= 0) {  
 return;  
 }  
 probe\_line = c.line\_elt(probe);  
 prev\_indicator = c.chunk\_indicator(probe\_line);  
 }  
 c.set\_sel(probe+1, end);  
 c.show\_selection();  
};  
  
// Returns 0, 1, or 2: how many of the two ends of the selection are on  
// the screen right now?  
coverage.selection\_ends\_on\_screen = function () {  
 if (coverage.sel\_begin === 0) {  
 return 0;  
 }  
  
 const begin = coverage.line\_elt(coverage.sel\_begin);  
 const end = coverage.line\_elt(coverage.sel\_end-1);  
  
 return (  
 (checkVisible(begin) ? 1 : 0)  
 + (checkVisible(end) ? 1 : 0)  
 );  
};  
  
coverage.to\_next\_chunk\_nicely = function () {  
 if (coverage.selection\_ends\_on\_screen() === 0) {  
 // The selection is entirely off the screen:  
 // Set the top line on the screen as selection.  
  
 // This will select the top-left of the viewport  
 // As this is most likely the span with the line number we take the parent  
 const line = document.elementFromPoint(0, 0).parentElement;  
 if (line.parentElement !== document.getElementById("source")) {  
 // The element is not a source line but the header or similar  
 coverage.select\_line\_or\_chunk(1);  
 }  
 else {  
 // We extract the line number from the id  
 coverage.select\_line\_or\_chunk(parseInt(line.id.substring(1), 10));  
 }  
 }  
 coverage.to\_next\_chunk();  
};  
  
coverage.to\_prev\_chunk\_nicely = function () {  
 if (coverage.selection\_ends\_on\_screen() === 0) {  
 // The selection is entirely off the screen:  
 // Set the lowest line on the screen as selection.  
  
 // This will select the bottom-left of the viewport  
 // As this is most likely the span with the line number we take the parent  
 const line = document.elementFromPoint(document.documentElement.clientHeight-1, 0).parentElement;  
 if (line.parentElement !== document.getElementById("source")) {  
 // The element is not a source line but the header or similar  
 coverage.select\_line\_or\_chunk(coverage.lines\_len);  
 }  
 else {  
 // We extract the line number from the id  
 coverage.select\_line\_or\_chunk(parseInt(line.id.substring(1), 10));  
 }  
 }  
 coverage.to\_prev\_chunk();  
};  
  
// Select line number lineno, or if it is in a colored chunk, select the  
// entire chunk  
coverage.select\_line\_or\_chunk = function (lineno) {  
 var c = coverage;  
 var probe\_line = c.line\_elt(lineno);  
 if (!probe\_line) {  
 return;  
 }  
 var the\_indicator = c.chunk\_indicator(probe\_line);  
 if (the\_indicator) {  
 // The line is in a highlighted chunk.  
 // Search backward for the first line.  
 var probe = lineno;  
 var indicator = the\_indicator;  
 while (probe > 0 && indicator === the\_indicator) {  
 probe--;  
 probe\_line = c.line\_elt(probe);  
 if (!probe\_line) {  
 break;  
 }  
 indicator = c.chunk\_indicator(probe\_line);  
 }  
 var begin = probe + 1;  
  
 // Search forward for the last line.  
 probe = lineno;  
 indicator = the\_indicator;  
 while (indicator === the\_indicator) {  
 probe++;  
 probe\_line = c.line\_elt(probe);  
 indicator = c.chunk\_indicator(probe\_line);  
 }  
  
 coverage.set\_sel(begin, probe);  
 }  
 else {  
 coverage.set\_sel(lineno);  
 }  
};  
  
coverage.show\_selection = function () {  
 // Highlight the lines in the chunk  
 document.querySelectorAll("#source .highlight").forEach(e => e.classList.remove("highlight"));  
 for (let probe = coverage.sel\_begin; probe < coverage.sel\_end; probe++) {  
 coverage.line\_elt(probe).querySelector(".n").classList.add("highlight");  
 }  
  
 coverage.scroll\_to\_selection();  
};  
  
coverage.scroll\_to\_selection = function () {  
 // Scroll the page if the chunk isn't fully visible.  
 if (coverage.selection\_ends\_on\_screen() < 2) {  
 const element = coverage.line\_elt(coverage.sel\_begin);  
 coverage.scroll\_window(element.offsetTop - 60);  
 }  
};  
  
coverage.scroll\_window = function (to\_pos) {  
 window.scroll({top: to\_pos, behavior: "smooth"});  
};  
  
coverage.init\_scroll\_markers = function () {  
 // Init some variables  
 coverage.lines\_len = document.querySelectorAll("#source > p").length;  
  
 // Build html  
 coverage.build\_scroll\_markers();  
};  
  
coverage.build\_scroll\_markers = function () {  
 const temp\_scroll\_marker = document.getElementById("scroll\_marker")  
 if (temp\_scroll\_marker) temp\_scroll\_marker.remove();  
 // Don't build markers if the window has no scroll bar.  
 if (document.body.scrollHeight <= window.innerHeight) {  
 return;  
 }  
  
 const marker\_scale = window.innerHeight / document.body.scrollHeight;  
 const line\_height = Math.min(Math.max(3, window.innerHeight / coverage.lines\_len), 10);  
  
 let previous\_line = -99, last\_mark, last\_top;  
  
 const scroll\_marker = document.createElement("div");  
 scroll\_marker.id = "scroll\_marker";  
 document.getElementById("source").querySelectorAll(  
 "p.show\_run, p.show\_mis, p.show\_exc, p.show\_exc, p.show\_par"  
 ).forEach(element => {  
 const line\_top = Math.floor(element.offsetTop \* marker\_scale);  
 const line\_number = parseInt(element.querySelector(".n a").id.substr(1));  
  
 if (line\_number === previous\_line + 1) {  
 // If this solid missed block just make previous mark higher.  
 last\_mark.style.height = `${line\_top + line\_height - last\_top}px`;  
 }  
 else {  
 // Add colored line in scroll\_marker block.  
 last\_mark = document.createElement("div");  
 last\_mark.id = `m${line\_number}`;  
 last\_mark.classList.add("marker");  
 last\_mark.style.height = `${line\_height}px`;  
 last\_mark.style.top = `${line\_top}px`;  
 scroll\_marker.append(last\_mark);  
 last\_top = line\_top;  
 }  
  
 previous\_line = line\_number;  
 });  
  
 // Append last to prevent layout calculation  
 document.body.append(scroll\_marker);  
};  
  
coverage.wire\_up\_sticky\_header = function () {  
 const header = document.querySelector("header");  
 const header\_bottom = (  
 header.querySelector(".content h2").getBoundingClientRect().top -  
 header.getBoundingClientRect().top  
 );  
  
 function updateHeader() {  
 if (window.scrollY > header\_bottom) {  
 header.classList.add("sticky");  
 }  
 else {  
 header.classList.remove("sticky");  
 }  
 }  
  
 window.addEventListener("scroll", updateHeader);  
 updateHeader();  
};  
  
coverage.expand\_contexts = function (e) {  
 var ctxs = e.target.parentNode.querySelector(".ctxs");  
  
 if (!ctxs.classList.contains("expanded")) {  
 var ctxs\_text = ctxs.textContent;  
 var width = Number(ctxs\_text[0]);  
 ctxs.textContent = "";  
 for (var i = 1; i < ctxs\_text.length; i += width) {  
 key = ctxs\_text.substring(i, i + width).trim();  
 ctxs.appendChild(document.createTextNode(contexts[key]));  
 ctxs.appendChild(document.createElement("br"));  
 }  
 ctxs.classList.add("expanded");  
 }  
};  
  
document.addEventListener("DOMContentLoaded", () => {  
 if (document.body.classList.contains("indexfile")) {  
 coverage.index\_ready();  
 }  
 else {  
 coverage.pyfile\_ready();  
 }  
});

### 📄 htmlcov\function\_index.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage report</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="indexfile">  
<header>  
 <div class="content">  
 <h1>Coverage report:  
 <span class="pc\_cov">74%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>f</kbd>  
 <kbd>n</kbd>  
 <kbd>s</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 <kbd>c</kbd>  
 &nbsp; change column sorting  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <form id="filter\_container">  
 <input id="filter" type="text" value="" placeholder="filter...">  
 <div>  
 <input id="hide100" type="checkbox" >  
 <label for="hide100">hide covered</label>  
 </div>  
 </form>  
 <h2>  
 <a class="button" href="index.html">Files</a>  
 <a class="button current">Functions</a>  
 <a class="button" href="class\_index.html">Classes</a>  
 </h2>  
 <p class="text">  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 13:38 -0500  
 </p>  
 </div>  
</header>  
<main id="index">  
 <table class="index" data-sortable>  
 <thead>  
 <tr class="tablehead" title="Click to sort">  
 <th id="file" class="name left" aria-sort="none" data-shortcut="f">File<span class="arrows"></span></th>  
 <th id="region" class="name left" aria-sort="none" data-default-sort-order="ascending" data-shortcut="n">function<span class="arrows"></span></th>  
 <th id="statements" aria-sort="none" data-default-sort-order="descending" data-shortcut="s">statements<span class="arrows"></span></th>  
 <th id="missing" aria-sort="none" data-default-sort-order="descending" data-shortcut="m">missing<span class="arrows"></span></th>  
 <th id="excluded" aria-sort="none" data-default-sort-order="descending" data-shortcut="x">excluded<span class="arrows"></span></th>  
 <th id="coverage" class="right" aria-sort="none" data-shortcut="c">coverage<span class="arrows"></span></th>  
 </tr>  
 </thead>  
 <tbody>  
 <tr class="region">  
 <td class="name left"><a href="z\_145eef247bfb46b6\_\_\_init\_\_\_py.html">src\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_145eef247bfb46b6\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html#t11">src\app.py</a></td>  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html#t11"><data value='create\_app'>create\_app</data></a></td>  
 <td>31</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="31 31">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html#t53">src\app.py</a></td>  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html#t53"><data value='ping'>create\_app.ping</data></a></td>  
 <td>1</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="1 1">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html#t57">src\app.py</a></td>  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html#t57"><data value='db\_check'>create\_app.db\_check</data></a></td>  
 <td>15</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="15 15">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html#t88">src\app.py</a></td>  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html#t88"><data value='startup'>create\_app.startup</data></a></td>  
 <td>1</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="1 1">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html">src\app.py</a></td>  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>8</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="8 8">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_\_\_init\_\_\_py.html">src\db\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_\_\_init\_\_\_py.html">src\db\dao\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html#t9">src\db\dao\activity\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html#t9"><data value='get\_by\_id'>ActivityDAO.get\_by\_id</data></a></td>  
 <td>1</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="1 1">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html#t16">src\db\dao\activity\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html#t16"><data value='upsert\_activities'>ActivityDAO.upsert\_activities</data></a></td>  
 <td>15</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="15 15">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html">src\db\dao\activity\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>9</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="9 9">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html#t8">src\db\dao\athlete\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html#t8"><data value='get\_athlete\_by\_strava\_id'>get\_athlete\_by\_strava\_id</data></a></td>  
 <td>1</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="1 1">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html#t15">src\db\dao\athlete\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html#t15"><data value='get\_athlete\_id\_from\_strava\_id'>get\_athlete\_id\_from\_strava\_id</data></a></td>  
 <td>2</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="2 2">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html#t23">src\db\dao\athlete\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html#t23"><data value='insert\_athlete'>insert\_athlete</data></a></td>  
 <td>5</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="5 5">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html">src\db\dao\athlete\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>6</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="6 6">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_split\_dao\_py.html#t5">src\db\dao\split\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_split\_dao\_py.html#t5"><data value='upsert\_splits'>upsert\_splits</data></a></td>  
 <td>25</td>  
 <td>4</td>  
 <td>0</td>  
 <td class="right" data-ratio="21 25">84%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_split\_dao\_py.html">src\db\dao\split\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_split\_dao\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>4</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="4 4">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html#t6">src\db\dao\token\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html#t6"><data value='get\_tokens\_sa'>get\_tokens\_sa</data></a></td>  
 <td>5</td>  
 <td>2</td>  
 <td>0</td>  
 <td class="right" data-ratio="3 5">60%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html#t22">src\db\dao\token\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html#t22"><data value='insert\_token\_sa'>insert\_token\_sa</data></a></td>  
 <td>3</td>  
 <td>1</td>  
 <td>0</td>  
 <td class="right" data-ratio="2 3">67%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html#t44">src\db\dao\token\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html#t44"><data value='delete\_tokens\_sa'>delete\_tokens\_sa</data></a></td>  
 <td>3</td>  
 <td>3</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 3">0%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html">src\db\dao\token\_dao.py</a></td>  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>6</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="6 6">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_db\_session\_py.html#t9">src\db\db\_session.py</a></td>  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_db\_session\_py.html#t9"><data value='get\_engine'>get\_engine</data></a></td>  
 <td>4</td>  
 <td>1</td>  
 <td>0</td>  
 <td class="right" data-ratio="3 4">75%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_db\_session\_py.html#t19">src\db\db\_session.py</a></td>  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_db\_session\_py.html#t19"><data value='get\_session'>get\_session</data></a></td>  
 <td>3</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="3 3">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_db\_session\_py.html">src\db\db\_session.py</a></td>  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_db\_session\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>6</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="6 6">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_\_\_init\_\_\_py.html">src\db\models\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_activities\_py.html">src\db\models\activities.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_activities\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>32</td>  
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 <td>0</td>  
 <td class="right" data-ratio="32 32">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_athletes\_py.html">src\db\models\athletes.py</a></td>  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_athletes\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>9</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="9 9">100%</td>  
 </tr>  
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 <td class="name left"><a href="z\_a0a1de4c230ef62c\_splits\_py.html#t44">src\db\models\splits.py</a></td>  
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 <td class="name left"><a href="z\_91a712da898ee42e\_admin\_routes\_py.html#t6">src\routes\admin\_routes.py</a></td>  
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 <td class="name left"><a href="z\_91a712da898ee42e\_auth\_routes\_py.html#t23"><data value='admin\_login'>admin\_login</data></a></td>  
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 <td class="name left"><a href="z\_91a712da898ee42e\_auth\_routes\_py.html#t95"><data value='refresh\_token'>refresh\_token</data></a></td>  
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 <td class="name left"><a href="z\_91a712da898ee42e\_auth\_routes\_py.html#t121">src\routes\auth\_routes.py</a></td>  
 <td class="name left"><a href="z\_91a712da898ee42e\_auth\_routes\_py.html#t121"><data value='logout'>logout</data></a></td>  
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 <td class="right" data-ratio="21 21">100%</td>  
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 <td class="name left"><a href="z\_fa000675cb663943\_\_\_init\_\_\_py.html">src\scripts\\_\_init\_\_.py</a></td>  
 <td class="name left"><a href="z\_fa000675cb663943\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
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 <td class="right" data-ratio="0 0">100%</td>  
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 <tr class="region">  
 <td class="name left"><a href="z\_fa000675cb663943\_main\_pipeline\_py.html#t16">src\scripts\main\_pipeline.py</a></td>  
 <td class="name left"><a href="z\_fa000675cb663943\_main\_pipeline\_py.html#t16"><data value='parse\_date'>parse\_date</data></a></td>  
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 <td>3</td>  
 <td>0</td>  
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 <td class="name left"><a href="z\_fa000675cb663943\_main\_pipeline\_py.html#t24">src\scripts\main\_pipeline.py</a></td>  
 <td class="name left"><a href="z\_fa000675cb663943\_main\_pipeline\_py.html#t24"><data value='main'>main</data></a></td>  
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 <td>0</td>  
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 <td class="name left"><a href="z\_fa000675cb663943\_main\_pipeline\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_\_\_init\_\_\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
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 <td class="right" data-ratio="0 0">100%</td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html#t34"><data value='enrich\_one\_activity'>enrich\_one\_activity</data></a></td>  
 <td>21</td>  
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 <td>0</td>  
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 <td>0</td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html#t152">src\services\activity\_service.py</a></td>  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html#t152"><data value='build\_mile\_splits'>build\_mile\_splits</data></a></td>  
 <td>26</td>  
 <td>3</td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html#t153"><data value='get\_data'>build\_mile\_splits.get\_data</data></a></td>  
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 <td>0</td>  
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 <td>0</td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html#t221"><data value='ingest\_recent'>ActivityIngestionService.ingest\_recent</data></a></td>  
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 <td>0</td>  
 <td class="right" data-ratio="3 3">100%</td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html#t226"><data value='ingest\_full\_history'>ActivityIngestionService.ingest\_full\_history</data></a></td>  
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 <td>0</td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html#t229"><data value='ingest\_between'>ActivityIngestionService.ingest\_between</data></a></td>  
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 <td>0</td>  
 <td class="right" data-ratio="4 4">100%</td>  
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 <td>0</td>  
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 <td>0</td>  
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 <td>13</td>  
 <td>0</td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_ingestion\_orchestrator\_service\_py.html#t33"><data value='ingest\_specific\_activity'>ingest\_specific\_activity</data></a></td>  
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 <td>0</td>  
 <td class="right" data-ratio="11 11">100%</td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_ingestion\_orchestrator\_service\_py.html#t53"><data value='ingest\_between\_dates'>ingest\_between\_dates</data></a></td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html#t7"><data value='init\_\_'>StravaClient.\_\_init\_\_</data></a></td>  
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 <td class="right" data-ratio="1 1">100%</td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html#t10"><data value='request\_with\_backoff'>StravaClient.\_request\_with\_backoff</data></a></td>  
 <td>12</td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html#t33"><data value='get\_activities'>StravaClient.get\_activities</data></a></td>  
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 <td class="name left"><a href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html#t75"><data value='get\_splits'>StravaClient.get\_splits</data></a></td>  
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 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html#t36">src\utils\map\_and\_extract\_Railway.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html#t36"><data value='add\_code\_block'>add\_code\_block</data></a></td>  
 <td>10</td>  
 <td>10</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 10">0%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html#t49">src\utils\map\_and\_extract\_Railway.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html#t49"><data value='apply\_folder\_style'>apply\_folder\_style</data></a></td>  
 <td>10</td>  
 <td>10</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 10">0%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html#t61">src\utils\map\_and\_extract\_Railway.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html#t61"><data value='write\_project\_map'>write\_project\_map</data></a></td>  
 <td>17</td>  
 <td>17</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 17">0%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html#t68">src\utils\map\_and\_extract\_Railway.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html#t68"><data value='scan\_structure'>write\_project\_map.scan\_structure</data></a></td>  
 <td>20</td>  
 <td>20</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 20">0%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html">src\utils\map\_and\_extract\_Railway.py</a></td>  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html"><data value=''><span class='no-noun'>(no function)</span></data></a></td>  
 <td>19</td>  
 <td>19</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 19">0%</td>  
 </tr>  
 </tbody>  
 <tfoot>  
 <tr class="total">  
 <td class="name left">Total</td>  
 <td class="name left">&nbsp;</td>  
 <td>1051</td>  
 <td>276</td>  
 <td>0</td>  
 <td class="right" data-ratio="775 1051">74%</td>  
 </tr>  
 </tfoot>  
 </table>  
 <p id="no\_rows">  
 No items found using the specified filter.  
 </p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 13:38 -0500  
 </p>  
 </div>  
 <aside class="hidden">  
 <a id="prevFileLink" class="nav" href=""></a>  
 <a id="nextFileLink" class="nav" href=""></a>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
</footer>  
</body>  
</html>

### 📄 htmlcov\index.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage report</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="indexfile">  
<header>  
 <div class="content">  
 <h1>Coverage report:  
 <span class="pc\_cov">74%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>f</kbd>  
 <kbd>s</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 <kbd>c</kbd>  
 &nbsp; change column sorting  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <form id="filter\_container">  
 <input id="filter" type="text" value="" placeholder="filter...">  
 <div>  
 <input id="hide100" type="checkbox" >  
 <label for="hide100">hide covered</label>  
 </div>  
 </form>  
 <h2>  
 <a class="button current">Files</a>  
 <a class="button" href="function\_index.html">Functions</a>  
 <a class="button" href="class\_index.html">Classes</a>  
 </h2>  
 <p class="text">  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 13:38 -0500  
 </p>  
 </div>  
</header>  
<main id="index">  
 <table class="index" data-sortable>  
 <thead>  
 <tr class="tablehead" title="Click to sort">  
 <th id="file" class="name left" aria-sort="none" data-shortcut="f">File<span class="arrows"></span></th>  
 <th id="statements" aria-sort="none" data-default-sort-order="descending" data-shortcut="s">statements<span class="arrows"></span></th>  
 <th id="missing" aria-sort="none" data-default-sort-order="descending" data-shortcut="m">missing<span class="arrows"></span></th>  
 <th id="excluded" aria-sort="none" data-default-sort-order="descending" data-shortcut="x">excluded<span class="arrows"></span></th>  
 <th id="coverage" class="right" aria-sort="none" data-shortcut="c">coverage<span class="arrows"></span></th>  
 </tr>  
 </thead>  
 <tbody>  
 <tr class="region">  
 <td class="name left"><a href="z\_145eef247bfb46b6\_\_\_init\_\_\_py.html">src\\_\_init\_\_.py</a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_145eef247bfb46b6\_app\_py.html">src\app.py</a></td>  
 <td>56</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="56 56">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_\_\_init\_\_\_py.html">src\db\\_\_init\_\_.py</a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_\_\_init\_\_\_py.html">src\db\dao\\_\_init\_\_.py</a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_activity\_dao\_py.html">src\db\dao\activity\_dao.py</a></td>  
 <td>25</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="25 25">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_athlete\_dao\_py.html">src\db\dao\athlete\_dao.py</a></td>  
 <td>14</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="14 14">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_split\_dao\_py.html">src\db\dao\split\_dao.py</a></td>  
 <td>29</td>  
 <td>4</td>  
 <td>0</td>  
 <td class="right" data-ratio="25 29">86%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_023ec42a73fd404d\_token\_dao\_py.html">src\db\dao\token\_dao.py</a></td>  
 <td>17</td>  
 <td>6</td>  
 <td>0</td>  
 <td class="right" data-ratio="11 17">65%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_034a03f060e0c6c2\_db\_session\_py.html">src\db\db\_session.py</a></td>  
 <td>13</td>  
 <td>1</td>  
 <td>0</td>  
 <td class="right" data-ratio="12 13">92%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_\_\_init\_\_\_py.html">src\db\models\\_\_init\_\_.py</a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_activities\_py.html">src\db\models\activities.py</a></td>  
 <td>32</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="32 32">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_athletes\_py.html">src\db\models\athletes.py</a></td>  
 <td>9</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="9 9">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_splits\_py.html">src\db\models\splits.py</a></td>  
 <td>33</td>  
 <td>5</td>  
 <td>0</td>  
 <td class="right" data-ratio="28 33">85%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_a0a1de4c230ef62c\_tokens\_py.html">src\db\models\tokens.py</a></td>  
 <td>8</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="8 8">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_91a712da898ee42e\_\_\_init\_\_\_py.html">src\routes\\_\_init\_\_.py</a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_91a712da898ee42e\_activity\_routes\_py.html">src\routes\activity\_routes.py</a></td>  
 <td>55</td>  
 <td>9</td>  
 <td>0</td>  
 <td class="right" data-ratio="46 55">84%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_91a712da898ee42e\_admin\_routes\_py.html">src\routes\admin\_routes.py</a></td>  
 <td>5</td>  
 <td>1</td>  
 <td>0</td>  
 <td class="right" data-ratio="4 5">80%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_91a712da898ee42e\_auth\_routes\_py.html">src\routes\auth\_routes.py</a></td>  
 <td>88</td>  
 <td>9</td>  
 <td>0</td>  
 <td class="right" data-ratio="79 88">90%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_fa000675cb663943\_\_\_init\_\_\_py.html">src\scripts\\_\_init\_\_.py</a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_fa000675cb663943\_main\_pipeline\_py.html">src\scripts\main\_pipeline.py</a></td>  
 <td>38</td>  
 <td>4</td>  
 <td>0</td>  
 <td class="right" data-ratio="34 38">89%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_\_\_init\_\_\_py.html">src\services\\_\_init\_\_.py</a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_activity\_service\_py.html">src\services\activity\_service.py</a></td>  
 <td>124</td>  
 <td>13</td>  
 <td>0</td>  
 <td class="right" data-ratio="111 124">90%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_ingestion\_orchestrator\_service\_py.html">src\services\ingestion\_orchestrator\_service.py</a></td>  
 <td>50</td>  
 <td>13</td>  
 <td>0</td>  
 <td class="right" data-ratio="37 50">74%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html">src\services\strava\_access\_service.py</a></td>  
 <td>70</td>  
 <td>9</td>  
 <td>0</td>  
 <td class="right" data-ratio="61 70">87%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_33ea1954bbe60e2e\_token\_service\_py.html">src\services\token\_service.py</a></td>  
 <td>97</td>  
 <td>4</td>  
 <td>0</td>  
 <td class="right" data-ratio="93 97">96%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_\_\_init\_\_\_py.html">src\utils\\_\_init\_\_.py</a></td>  
 <td>0</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 0">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_config\_py.html">src\utils\config.py</a></td>  
 <td>18</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="18 18">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_conversions\_py.html">src\utils\conversions.py</a></td>  
 <td>41</td>  
 <td>4</td>  
 <td>0</td>  
 <td class="right" data-ratio="37 41">90%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_generate\_gpt\_handoff\_summary\_py.html">src\utils\generate\_gpt\_handoff\_summary.py</a></td>  
 <td>67</td>  
 <td>67</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 67">0%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_gpt\_ops\_py.html">src\utils\gpt\_ops.py</a></td>  
 <td>37</td>  
 <td>37</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 37">0%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_jwt\_utils\_py.html">src\utils\jwt\_utils.py</a></td>  
 <td>32</td>  
 <td>1</td>  
 <td>0</td>  
 <td class="right" data-ratio="31 32">97%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_logger\_py.html">src\utils\logger.py</a></td>  
 <td>4</td>  
 <td>0</td>  
 <td>0</td>  
 <td class="right" data-ratio="4 4">100%</td>  
 </tr>  
 <tr class="region">  
 <td class="name left"><a href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html">src\utils\map\_and\_extract\_Railway.py</a></td>  
 <td>89</td>  
 <td>89</td>  
 <td>0</td>  
 <td class="right" data-ratio="0 89">0%</td>  
 </tr>  
 </tbody>  
 <tfoot>  
 <tr class="total">  
 <td class="name left">Total</td>  
 <td>1051</td>  
 <td>276</td>  
 <td>0</td>  
 <td class="right" data-ratio="775 1051">74%</td>  
 </tr>  
 </tfoot>  
 </table>  
 <p id="no\_rows">  
 No items found using the specified filter.  
 </p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 13:38 -0500  
 </p>  
 </div>  
 <aside class="hidden">  
 <a id="prevFileLink" class="nav" href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html"></a>  
 <a id="nextFileLink" class="nav" href="z\_145eef247bfb46b6\_\_\_init\_\_\_py.html"></a>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
</footer>  
</body>  
</html>

### 📄 htmlcov\style\_cb\_db813965.css

@charset "UTF-8";  
/\* Licensed under the Apache License: http://www.apache.org/licenses/LICENSE-2.0 \*/  
/\* For details: https://github.com/nedbat/coveragepy/blob/master/NOTICE.txt \*/  
/\* Don't edit this .css file. Edit the .scss file instead! \*/  
html, body, h1, h2, h3, p, table, td, th { margin: 0; padding: 0; border: 0; font-weight: inherit; font-style: inherit; font-size: 100%; font-family: inherit; vertical-align: baseline; }  
  
body { font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Ubuntu, Cantarell, "Helvetica Neue", sans-serif; font-size: 1em; background: #fff; color: #000; }  
  
@media (prefers-color-scheme: dark) { body { background: #1e1e1e; } }  
  
@media (prefers-color-scheme: dark) { body { color: #eee; } }  
  
html > body { font-size: 16px; }  
  
a:active, a:focus { outline: 2px dashed #007acc; }  
  
p { font-size: .875em; line-height: 1.4em; }  
  
table { border-collapse: collapse; }  
  
td { vertical-align: top; }  
  
table tr.hidden { display: none !important; }  
  
p#no\_rows { display: none; font-size: 1.15em; font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Ubuntu, Cantarell, "Helvetica Neue", sans-serif; }  
  
a.nav { text-decoration: none; color: inherit; }  
  
a.nav:hover { text-decoration: underline; color: inherit; }  
  
.hidden { display: none; }  
  
header { background: #f8f8f8; width: 100%; z-index: 2; border-bottom: 1px solid #ccc; }  
  
@media (prefers-color-scheme: dark) { header { background: black; } }  
  
@media (prefers-color-scheme: dark) { header { border-color: #333; } }  
  
header .content { padding: 1rem 3.5rem; }  
  
header h2 { margin-top: .5em; font-size: 1em; }  
  
header h2 a.button { font-family: inherit; font-size: inherit; border: 1px solid; border-radius: .2em; background: #eee; color: inherit; text-decoration: none; padding: .1em .5em; margin: 1px calc(.1em + 1px); cursor: pointer; border-color: #ccc; }  
  
@media (prefers-color-scheme: dark) { header h2 a.button { background: #333; } }  
  
@media (prefers-color-scheme: dark) { header h2 a.button { border-color: #444; } }  
  
header h2 a.button.current { border: 2px solid; background: #fff; border-color: #999; cursor: default; }  
  
@media (prefers-color-scheme: dark) { header h2 a.button.current { background: #1e1e1e; } }  
  
@media (prefers-color-scheme: dark) { header h2 a.button.current { border-color: #777; } }  
  
header p.text { margin: .5em 0 -.5em; color: #666; font-style: italic; }  
  
@media (prefers-color-scheme: dark) { header p.text { color: #aaa; } }  
  
header.sticky { position: fixed; left: 0; right: 0; height: 2.5em; }  
  
header.sticky .text { display: none; }  
  
header.sticky h1, header.sticky h2 { font-size: 1em; margin-top: 0; display: inline-block; }  
  
header.sticky .content { padding: 0.5rem 3.5rem; }  
  
header.sticky .content p { font-size: 1em; }  
  
header.sticky ~ #source { padding-top: 6.5em; }  
  
main { position: relative; z-index: 1; }  
  
footer { margin: 1rem 3.5rem; }  
  
footer .content { padding: 0; color: #666; font-style: italic; }  
  
@media (prefers-color-scheme: dark) { footer .content { color: #aaa; } }  
  
#index { margin: 1rem 0 0 3.5rem; }  
  
h1 { font-size: 1.25em; display: inline-block; }  
  
#filter\_container { float: right; margin: 0 2em 0 0; line-height: 1.66em; }  
  
#filter\_container #filter { width: 10em; padding: 0.2em 0.5em; border: 2px solid #ccc; background: #fff; color: #000; }  
  
@media (prefers-color-scheme: dark) { #filter\_container #filter { border-color: #444; } }  
  
@media (prefers-color-scheme: dark) { #filter\_container #filter { background: #1e1e1e; } }  
  
@media (prefers-color-scheme: dark) { #filter\_container #filter { color: #eee; } }  
  
#filter\_container #filter:focus { border-color: #007acc; }  
  
#filter\_container :disabled ~ label { color: #ccc; }  
  
@media (prefers-color-scheme: dark) { #filter\_container :disabled ~ label { color: #444; } }  
  
#filter\_container label { font-size: .875em; color: #666; }  
  
@media (prefers-color-scheme: dark) { #filter\_container label { color: #aaa; } }  
  
header button { font-family: inherit; font-size: inherit; border: 1px solid; border-radius: .2em; background: #eee; color: inherit; text-decoration: none; padding: .1em .5em; margin: 1px calc(.1em + 1px); cursor: pointer; border-color: #ccc; }  
  
@media (prefers-color-scheme: dark) { header button { background: #333; } }  
  
@media (prefers-color-scheme: dark) { header button { border-color: #444; } }  
  
header button:active, header button:focus { outline: 2px dashed #007acc; }  
  
header button.run { background: #eeffee; }  
  
@media (prefers-color-scheme: dark) { header button.run { background: #373d29; } }  
  
header button.run.show\_run { background: #dfd; border: 2px solid #00dd00; margin: 0 .1em; }  
  
@media (prefers-color-scheme: dark) { header button.run.show\_run { background: #373d29; } }  
  
header button.mis { background: #ffeeee; }  
  
@media (prefers-color-scheme: dark) { header button.mis { background: #4b1818; } }  
  
header button.mis.show\_mis { background: #fdd; border: 2px solid #ff0000; margin: 0 .1em; }  
  
@media (prefers-color-scheme: dark) { header button.mis.show\_mis { background: #4b1818; } }  
  
header button.exc { background: #f7f7f7; }  
  
@media (prefers-color-scheme: dark) { header button.exc { background: #333; } }  
  
header button.exc.show\_exc { background: #eee; border: 2px solid #808080; margin: 0 .1em; }  
  
@media (prefers-color-scheme: dark) { header button.exc.show\_exc { background: #333; } }  
  
header button.par { background: #ffffd5; }  
  
@media (prefers-color-scheme: dark) { header button.par { background: #650; } }  
  
header button.par.show\_par { background: #ffa; border: 2px solid #bbbb00; margin: 0 .1em; }  
  
@media (prefers-color-scheme: dark) { header button.par.show\_par { background: #650; } }  
  
#help\_panel, #source p .annotate.long { display: none; position: absolute; z-index: 999; background: #ffffcc; border: 1px solid #888; border-radius: .2em; color: #333; padding: .25em .5em; }  
  
#source p .annotate.long { white-space: normal; float: right; top: 1.75em; right: 1em; height: auto; }  
  
#help\_panel\_wrapper { float: right; position: relative; }  
  
#keyboard\_icon { margin: 5px; }  
  
#help\_panel\_state { display: none; }  
  
#help\_panel { top: 25px; right: 0; padding: .75em; border: 1px solid #883; color: #333; }  
  
#help\_panel .keyhelp p { margin-top: .75em; }  
  
#help\_panel .legend { font-style: italic; margin-bottom: 1em; }  
  
.indexfile #help\_panel { width: 25em; }  
  
.pyfile #help\_panel { width: 18em; }  
  
#help\_panel\_state:checked ~ #help\_panel { display: block; }  
  
kbd { border: 1px solid black; border-color: #888 #333 #333 #888; padding: .1em .35em; font-family: SFMono-Regular, Menlo, Monaco, Consolas, monospace; font-weight: bold; background: #eee; border-radius: 3px; }  
  
#source { padding: 1em 0 1em 3.5rem; font-family: SFMono-Regular, Menlo, Monaco, Consolas, monospace; }  
  
#source p { position: relative; white-space: pre; }  
  
#source p \* { box-sizing: border-box; }  
  
#source p .n { float: left; text-align: right; width: 3.5rem; box-sizing: border-box; margin-left: -3.5rem; padding-right: 1em; color: #999; user-select: none; }  
  
@media (prefers-color-scheme: dark) { #source p .n { color: #777; } }  
  
#source p .n.highlight { background: #ffdd00; }  
  
#source p .n a { scroll-margin-top: 6em; text-decoration: none; color: #999; }  
  
@media (prefers-color-scheme: dark) { #source p .n a { color: #777; } }  
  
#source p .n a:hover { text-decoration: underline; color: #999; }  
  
@media (prefers-color-scheme: dark) { #source p .n a:hover { color: #777; } }  
  
#source p .t { display: inline-block; width: 100%; box-sizing: border-box; margin-left: -.5em; padding-left: 0.3em; border-left: 0.2em solid #fff; }  
  
@media (prefers-color-scheme: dark) { #source p .t { border-color: #1e1e1e; } }  
  
#source p .t:hover { background: #f2f2f2; }  
  
@media (prefers-color-scheme: dark) { #source p .t:hover { background: #282828; } }  
  
#source p .t:hover ~ .r .annotate.long { display: block; }  
  
#source p .t .com { color: #008000; font-style: italic; line-height: 1px; }  
  
@media (prefers-color-scheme: dark) { #source p .t .com { color: #6a9955; } }  
  
#source p .t .key { font-weight: bold; line-height: 1px; }  
  
#source p .t .str, #source p .t .fst { color: #0451a5; }  
  
@media (prefers-color-scheme: dark) { #source p .t .str, #source p .t .fst { color: #9cdcfe; } }  
  
#source p.mis .t { border-left: 0.2em solid #ff0000; }  
  
#source p.mis.show\_mis .t { background: #fdd; }  
  
@media (prefers-color-scheme: dark) { #source p.mis.show\_mis .t { background: #4b1818; } }  
  
#source p.mis.show\_mis .t:hover { background: #f2d2d2; }  
  
@media (prefers-color-scheme: dark) { #source p.mis.show\_mis .t:hover { background: #532323; } }  
  
#source p.run .t { border-left: 0.2em solid #00dd00; }  
  
#source p.run.show\_run .t { background: #dfd; }  
  
@media (prefers-color-scheme: dark) { #source p.run.show\_run .t { background: #373d29; } }  
  
#source p.run.show\_run .t:hover { background: #d2f2d2; }  
  
@media (prefers-color-scheme: dark) { #source p.run.show\_run .t:hover { background: #404633; } }  
  
#source p.exc .t { border-left: 0.2em solid #808080; }  
  
#source p.exc.show\_exc .t { background: #eee; }  
  
@media (prefers-color-scheme: dark) { #source p.exc.show\_exc .t { background: #333; } }  
  
#source p.exc.show\_exc .t:hover { background: #e2e2e2; }  
  
@media (prefers-color-scheme: dark) { #source p.exc.show\_exc .t:hover { background: #3c3c3c; } }  
  
#source p.par .t { border-left: 0.2em solid #bbbb00; }  
  
#source p.par.show\_par .t { background: #ffa; }  
  
@media (prefers-color-scheme: dark) { #source p.par.show\_par .t { background: #650; } }  
  
#source p.par.show\_par .t:hover { background: #f2f2a2; }  
  
@media (prefers-color-scheme: dark) { #source p.par.show\_par .t:hover { background: #6d5d0c; } }  
  
#source p .r { position: absolute; top: 0; right: 2.5em; font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Ubuntu, Cantarell, "Helvetica Neue", sans-serif; }  
  
#source p .annotate { font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Ubuntu, Cantarell, "Helvetica Neue", sans-serif; color: #666; padding-right: .5em; }  
  
@media (prefers-color-scheme: dark) { #source p .annotate { color: #ddd; } }  
  
#source p .annotate.short:hover ~ .long { display: block; }  
  
#source p .annotate.long { width: 30em; right: 2.5em; }  
  
#source p input { display: none; }  
  
#source p input ~ .r label.ctx { cursor: pointer; border-radius: .25em; }  
  
#source p input ~ .r label.ctx::before { content: "▶ "; }  
  
#source p input ~ .r label.ctx:hover { background: #e8f4ff; color: #666; }  
  
@media (prefers-color-scheme: dark) { #source p input ~ .r label.ctx:hover { background: #0f3a42; } }  
  
@media (prefers-color-scheme: dark) { #source p input ~ .r label.ctx:hover { color: #aaa; } }  
  
#source p input:checked ~ .r label.ctx { background: #d0e8ff; color: #666; border-radius: .75em .75em 0 0; padding: 0 .5em; margin: -.25em 0; }  
  
@media (prefers-color-scheme: dark) { #source p input:checked ~ .r label.ctx { background: #056; } }  
  
@media (prefers-color-scheme: dark) { #source p input:checked ~ .r label.ctx { color: #aaa; } }  
  
#source p input:checked ~ .r label.ctx::before { content: "▼ "; }  
  
#source p input:checked ~ .ctxs { padding: .25em .5em; overflow-y: scroll; max-height: 10.5em; }  
  
#source p label.ctx { color: #999; display: inline-block; padding: 0 .5em; font-size: .8333em; }  
  
@media (prefers-color-scheme: dark) { #source p label.ctx { color: #777; } }  
  
#source p .ctxs { display: block; max-height: 0; overflow-y: hidden; transition: all .2s; padding: 0 .5em; font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Ubuntu, Cantarell, "Helvetica Neue", sans-serif; white-space: nowrap; background: #d0e8ff; border-radius: .25em; margin-right: 1.75em; text-align: right; }  
  
@media (prefers-color-scheme: dark) { #source p .ctxs { background: #056; } }  
  
#index { font-family: SFMono-Regular, Menlo, Monaco, Consolas, monospace; font-size: 0.875em; }  
  
#index table.index { margin-left: -.5em; }  
  
#index td, #index th { text-align: right; padding: .25em .5em; border-bottom: 1px solid #eee; }  
  
@media (prefers-color-scheme: dark) { #index td, #index th { border-color: #333; } }  
  
#index td.name, #index th.name { text-align: left; width: auto; font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Ubuntu, Cantarell, "Helvetica Neue", sans-serif; min-width: 15em; }  
  
#index th { font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Ubuntu, Cantarell, "Helvetica Neue", sans-serif; font-style: italic; color: #333; cursor: pointer; }  
  
@media (prefers-color-scheme: dark) { #index th { color: #ddd; } }  
  
#index th:hover { background: #eee; }  
  
@media (prefers-color-scheme: dark) { #index th:hover { background: #333; } }  
  
#index th .arrows { color: #666; font-size: 85%; font-family: sans-serif; font-style: normal; pointer-events: none; }  
  
#index th[aria-sort="ascending"], #index th[aria-sort="descending"] { white-space: nowrap; background: #eee; padding-left: .5em; }  
  
@media (prefers-color-scheme: dark) { #index th[aria-sort="ascending"], #index th[aria-sort="descending"] { background: #333; } }  
  
#index th[aria-sort="ascending"] .arrows::after { content: " ▲"; }  
  
#index th[aria-sort="descending"] .arrows::after { content: " ▼"; }  
  
#index td.name { font-size: 1.15em; }  
  
#index td.name a { text-decoration: none; color: inherit; }  
  
#index td.name .no-noun { font-style: italic; }  
  
#index tr.total td, #index tr.total\_dynamic td { font-weight: bold; border-top: 1px solid #ccc; border-bottom: none; }  
  
#index tr.region:hover { background: #eee; }  
  
@media (prefers-color-scheme: dark) { #index tr.region:hover { background: #333; } }  
  
#index tr.region:hover td.name { text-decoration: underline; color: inherit; }  
  
#scroll\_marker { position: fixed; z-index: 3; right: 0; top: 0; width: 16px; height: 100%; background: #fff; border-left: 1px solid #eee; will-change: transform; }  
  
@media (prefers-color-scheme: dark) { #scroll\_marker { background: #1e1e1e; } }  
  
@media (prefers-color-scheme: dark) { #scroll\_marker { border-color: #333; } }  
  
#scroll\_marker .marker { background: #ccc; position: absolute; min-height: 3px; width: 100%; }  
  
@media (prefers-color-scheme: dark) { #scroll\_marker .marker { background: #444; } }

### 📄 htmlcov\z\_023ec42a73fd404d\_\_\_init\_\_\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\db\dao\\_\_init\_\_.py: 100%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\db\dao\\_\_init\_\_.py</b>:  
 <span class="pc\_cov">100%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">0 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">0<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">0<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_034a03f060e0c6c2\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_023ec42a73fd404d\_activity\_dao\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_034a03f060e0c6c2\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_023ec42a73fd404d\_activity\_dao\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_023ec42a73fd404d\_activity\_dao\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\db\dao\activity\_dao.py: 100%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\db\dao\activity\_dao.py</b>:  
 <span class="pc\_cov">100%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">25 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">25<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">0<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_023ec42a73fd404d\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_023ec42a73fd404d\_athlete\_dao\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 11:45 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span><span class="op">.</span><span class="nam">dialects</span><span class="op">.</span><span class="nam">postgresql</span> <span class="key">import</span> <span class="nam">insert</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span><span class="op">.</span><span class="nam">orm</span> <span class="key">import</span> <span class="nam">Session</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">models</span><span class="op">.</span><span class="nam">activities</span> <span class="key">import</span> <span class="nam">Activity</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">conversions</span> <span class="key">import</span> <span class="nam">convert\_metrics</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="key">class</span> <span class="nam">ActivityDAO</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"> <span class="op">@</span><span class="nam">staticmethod</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"> <span class="key">def</span> <span class="nam">get\_by\_id</span><span class="op">(</span><span class="nam">session</span><span class="op">:</span> <span class="nam">Session</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">:</span> <span class="nam">int</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"><span class="str"> Fetch a single activity by its ID.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"> <span class="key">return</span> <span class="nam">session</span><span class="op">.</span><span class="nam">query</span><span class="op">(</span><span class="nam">Activity</span><span class="op">)</span><span class="op">.</span><span class="nam">filter</span><span class="op">(</span><span class="nam">Activity</span><span class="op">.</span><span class="nam">activity\_id</span> <span class="op">==</span> <span class="nam">activity\_id</span><span class="op">)</span><span class="op">.</span><span class="nam">first</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="op">@</span><span class="nam">staticmethod</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="key">def</span> <span class="nam">upsert\_activities</span><span class="op">(</span><span class="nam">session</span><span class="op">:</span> <span class="nam">Session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">:</span> <span class="nam">int</span><span class="op">,</span> <span class="nam">activities</span><span class="op">:</span> <span class="nam">list</span><span class="op">[</span><span class="nam">dict</span><span class="op">]</span><span class="op">)</span> <span class="op">-></span> <span class="nam">int</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"><span class="str"> Upsert activities into the database.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"><span class="str"> Args:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"><span class="str"> session (Session): SQLAlchemy session object.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"><span class="str"> athlete\_id (int): ID of the athlete.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"><span class="str"> activities (list): List of activity dicts from Strava.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"><span class="str"> Returns:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"><span class="str"> int: Number of rows affected.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">activities</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="key">return</span> <span class="num">0</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="nam">rows</span> <span class="op">=</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="key">for</span> <span class="nam">act</span> <span class="key">in</span> <span class="nam">activities</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="nam">conv\_input</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="str">"distance"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"distance"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="str">"elevation"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"total\_elevation\_gain"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="str">"average\_speed"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"average\_speed"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="str">"max\_speed"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"max\_speed"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="str">"moving\_time"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"moving\_time"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="str">"elapsed\_time"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"elapsed\_time"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="nam">conv\_fields</span> <span class="op">=</span> <span class="op">[</span><span class="str">"distance"</span><span class="op">,</span> <span class="str">"elevation"</span><span class="op">,</span> <span class="str">"average\_speed"</span><span class="op">,</span> <span class="str">"max\_speed"</span><span class="op">,</span> <span class="str">"moving\_time"</span><span class="op">,</span> <span class="str">"elapsed\_time"</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="nam">conv</span> <span class="op">=</span> <span class="nam">convert\_metrics</span><span class="op">(</span><span class="nam">conv\_input</span><span class="op">,</span> <span class="nam">conv\_fields</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"> <span class="nam">row</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="str">"activity\_id"</span><span class="op">:</span> <span class="nam">act</span><span class="op">[</span><span class="str">"id"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="str">"athlete\_id"</span><span class="op">:</span> <span class="nam">athlete\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="str">"name"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"name"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="str">"type"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"type"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="str">"start\_date"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"start\_date"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="str">"distance"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"distance"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="str">"elapsed\_time"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"elapsed\_time"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t"> <span class="str">"moving\_time"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"moving\_time"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="str">"total\_elevation\_gain"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"total\_elevation\_gain"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="str">"external\_id"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"external\_id"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t"> <span class="str">"timezone"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"timezone"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="str">"hr\_zone\_1"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"hr\_zone\_1"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="str">"hr\_zone\_2"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"hr\_zone\_2"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"> <span class="str">"hr\_zone\_3"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"hr\_zone\_3"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"> <span class="str">"hr\_zone\_4"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"hr\_zone\_4"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t"> <span class="str">"hr\_zone\_5"</span><span class="op">:</span> <span class="nam">act</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"hr\_zone\_5"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"> <span class="str">"conv\_distance"</span><span class="op">:</span> <span class="nam">conv</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"conv\_distance"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"> <span class="str">"conv\_elevation\_feet"</span><span class="op">:</span> <span class="nam">conv</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"conv\_elevation\_feet"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"> <span class="str">"conv\_avg\_speed"</span><span class="op">:</span> <span class="nam">conv</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"conv\_avg\_speed"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t"> <span class="str">"conv\_max\_speed"</span><span class="op">:</span> <span class="nam">conv</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"conv\_max\_speed"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t"> <span class="str">"conv\_moving\_time"</span><span class="op">:</span> <span class="nam">conv</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"conv\_moving\_time"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t"> <span class="str">"conv\_elapsed\_time"</span><span class="op">:</span> <span class="nam">conv</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"conv\_elapsed\_time"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"> <span class="nam">rows</span><span class="op">.</span><span class="nam">append</span><span class="op">(</span><span class="nam">row</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"> <span class="nam">stmt</span> <span class="op">=</span> <span class="nam">insert</span><span class="op">(</span><span class="nam">Activity</span><span class="op">)</span><span class="op">.</span><span class="nam">values</span><span class="op">(</span><span class="nam">rows</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="nam">update\_cols</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="nam">col</span><span class="op">.</span><span class="nam">name</span><span class="op">:</span> <span class="nam">getattr</span><span class="op">(</span><span class="nam">stmt</span><span class="op">.</span><span class="nam">excluded</span><span class="op">,</span> <span class="nam">col</span><span class="op">.</span><span class="nam">name</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t"> <span class="key">for</span> <span class="nam">col</span> <span class="key">in</span> <span class="nam">Activity</span><span class="op">.</span><span class="nam">\_\_table\_\_</span><span class="op">.</span><span class="nam">columns</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t75" href="#t75">75</a></span><span class="t"> <span class="key">if</span> <span class="nam">col</span><span class="op">.</span><span class="nam">name</span> <span class="op">!=</span> <span class="str">"activity\_id"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t76" href="#t76">76</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t77" href="#t77">77</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t78" href="#t78">78</a></span><span class="t"> <span class="nam">stmt</span> <span class="op">=</span> <span class="nam">stmt</span><span class="op">.</span><span class="nam">on\_conflict\_do\_update</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t79" href="#t79">79</a></span><span class="t"> <span class="nam">index\_elements</span><span class="op">=</span><span class="op">[</span><span class="str">"activity\_id"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t80" href="#t80">80</a></span><span class="t"> <span class="nam">set\_</span><span class="op">=</span><span class="nam">update\_cols</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t81" href="#t81">81</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t82" href="#t82">82</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t83" href="#t83">83</a></span><span class="t"> <span class="nam">result</span> <span class="op">=</span> <span class="nam">session</span><span class="op">.</span><span class="nam">execute</span><span class="op">(</span><span class="nam">stmt</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t84" href="#t84">84</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">commit</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t85" href="#t85">85</a></span><span class="t"> <span class="key">return</span> <span class="nam">result</span><span class="op">.</span><span class="nam">rowcount</span>&nbsp;</span><span class="r"></span></p>  
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<footer>  
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 <a class="nav" href="z\_023ec42a73fd404d\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_023ec42a73fd404d\_athlete\_dao\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 11:45 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_023ec42a73fd404d\_athlete\_dao\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\db\dao\athlete\_dao.py: 100%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\db\dao\athlete\_dao.py</b>:  
 <span class="pc\_cov">100%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">14 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">14<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">0<span class="text"> missing</span></button>  
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 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_023ec42a73fd404d\_activity\_dao\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_023ec42a73fd404d\_split\_dao\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="pln"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="com"># src/db/dao/athlete\_dao.py</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">typing</span> <span class="key">import</span> <span class="nam">Optional</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span><span class="op">.</span><span class="nam">orm</span> <span class="key">import</span> <span class="nam">Session</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">models</span><span class="op">.</span><span class="nam">athletes</span> <span class="key">import</span> <span class="nam">Athlete</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"><span class="key">def</span> <span class="nam">get\_athlete\_by\_strava\_id</span><span class="op">(</span><span class="nam">session</span><span class="op">:</span> <span class="nam">Session</span><span class="op">,</span> <span class="nam">strava\_id</span><span class="op">:</span> <span class="nam">int</span><span class="op">)</span> <span class="op">-></span> <span class="nam">Optional</span><span class="op">[</span><span class="nam">Athlete</span><span class="op">]</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="str"> Retrieve the athlete record by their Strava athlete ID.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"> <span class="key">return</span> <span class="nam">session</span><span class="op">.</span><span class="nam">query</span><span class="op">(</span><span class="nam">Athlete</span><span class="op">)</span><span class="op">.</span><span class="nam">filter\_by</span><span class="op">(</span><span class="nam">strava\_athlete\_id</span><span class="op">=</span><span class="nam">strava\_id</span><span class="op">)</span><span class="op">.</span><span class="nam">first</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"><span class="key">def</span> <span class="nam">get\_athlete\_id\_from\_strava\_id</span><span class="op">(</span><span class="nam">session</span><span class="op">:</span> <span class="nam">Session</span><span class="op">,</span> <span class="nam">strava\_id</span><span class="op">:</span> <span class="nam">int</span><span class="op">)</span> <span class="op">-></span> <span class="nam">Optional</span><span class="op">[</span><span class="nam">int</span><span class="op">]</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"><span class="str"> Retrieve internal athlete ID from the Strava athlete ID.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"> <span class="nam">result</span> <span class="op">=</span> <span class="nam">session</span><span class="op">.</span><span class="nam">query</span><span class="op">(</span><span class="nam">Athlete</span><span class="op">.</span><span class="nam">id</span><span class="op">)</span><span class="op">.</span><span class="nam">filter\_by</span><span class="op">(</span><span class="nam">strava\_athlete\_id</span><span class="op">=</span><span class="nam">strava\_id</span><span class="op">)</span><span class="op">.</span><span class="nam">first</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="key">return</span> <span class="nam">result</span><span class="op">.</span><span class="nam">id</span> <span class="key">if</span> <span class="nam">result</span> <span class="key">else</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"><span class="key">def</span> <span class="nam">insert\_athlete</span><span class="op">(</span><span class="nam">session</span><span class="op">:</span> <span class="nam">Session</span><span class="op">,</span> <span class="nam">strava\_athlete\_id</span><span class="op">:</span> <span class="nam">int</span><span class="op">,</span> <span class="nam">name</span><span class="op">:</span> <span class="nam">Optional</span><span class="op">[</span><span class="nam">str</span><span class="op">]</span> <span class="op">=</span> <span class="key">None</span><span class="op">,</span> <span class="nam">email</span><span class="op">:</span> <span class="nam">Optional</span><span class="op">[</span><span class="nam">str</span><span class="op">]</span> <span class="op">=</span> <span class="key">None</span><span class="op">)</span> <span class="op">-></span> <span class="nam">int</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"><span class="str"> Insert a new athlete record and return the internal athlete ID.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="nam">new\_athlete</span> <span class="op">=</span> <span class="nam">Athlete</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">strava\_athlete\_id</span><span class="op">=</span><span class="nam">strava\_athlete\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">name</span><span class="op">=</span><span class="nam">name</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="nam">email</span><span class="op">=</span><span class="nam">email</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">add</span><span class="op">(</span><span class="nam">new\_athlete</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">commit</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">refresh</span><span class="op">(</span><span class="nam">new\_athlete</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="key">return</span> <span class="nam">new\_athlete</span><span class="op">.</span><span class="nam">id</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_023ec42a73fd404d\_activity\_dao\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_023ec42a73fd404d\_split\_dao\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_023ec42a73fd404d\_split\_dao\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
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</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\db\dao\split\_dao.py</b>:  
 <span class="pc\_cov">86%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
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 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">29 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">25<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">4<span class="text"> missing</span></button>  
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 </h2>  
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 <a id="prevFileLink" class="nav" href="z\_023ec42a73fd404d\_athlete\_dao\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_023ec42a73fd404d\_token\_dao\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span><span class="op">.</span><span class="nam">dialects</span><span class="op">.</span><span class="nam">postgresql</span> <span class="key">import</span> <span class="nam">insert</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">models</span><span class="op">.</span><span class="nam">splits</span> <span class="key">import</span> <span class="nam">Split</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">conversions</span> <span class="key">import</span> <span class="nam">convert\_metrics</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="key">def</span> <span class="nam">upsert\_splits</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">splits</span><span class="op">:</span> <span class="nam">list</span><span class="op">)</span> <span class="op">-></span> <span class="nam">int</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="str"> Upserts multiple split records into the 'splits' table.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"><span class="str"> Applies conversion logic centrally before inserting.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"><span class="str"> Ensures 'split' field is consistently a valid integer type.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">splits</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"> <span class="key">return</span> <span class="num">0</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="nam">converted</span> <span class="op">=</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="key">for</span> <span class="nam">s</span> <span class="key">in</span> <span class="nam">splits</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="com"># Ensure 'split' is a true int, not a bool or invalid type</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="nam">split\_raw</span> <span class="op">=</span> <span class="nam">s</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"split"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="nam">split\_value</span> <span class="op">=</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"> <span class="key">if</span> <span class="nam">split\_raw</span> <span class="key">is</span> <span class="key">not</span> <span class="key">None</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="key">if</span> <span class="nam">isinstance</span><span class="op">(</span><span class="nam">split\_raw</span><span class="op">,</span> <span class="nam">bool</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"> <span class="nam">split\_value</span> <span class="op">=</span> <span class="num">1</span> <span class="key">if</span> <span class="nam">split\_raw</span> <span class="key">else</span> <span class="num">0</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="key">elif</span> <span class="nam">isinstance</span><span class="op">(</span><span class="nam">split\_raw</span><span class="op">,</span> <span class="op">(</span><span class="nam">int</span><span class="op">,</span> <span class="nam">float</span><span class="op">,</span> <span class="nam">str</span><span class="op">)</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="nam">split\_value</span> <span class="op">=</span> <span class="nam">int</span><span class="op">(</span><span class="nam">split\_raw</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="key">except</span> <span class="op">(</span><span class="nam">ValueError</span><span class="op">,</span> <span class="nam">TypeError</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="nam">split\_value</span> <span class="op">=</span> <span class="key">None</span> <span class="com"># fallback for invalid string etc.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">conv\_fields</span> <span class="op">=</span> <span class="op">[</span><span class="str">"distance"</span><span class="op">,</span> <span class="str">"average\_speed"</span><span class="op">,</span> <span class="str">"moving\_time"</span><span class="op">,</span> <span class="str">"elapsed\_time"</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">conv\_data</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="str">"distance"</span><span class="op">:</span> <span class="nam">s</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"distance"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="str">"average\_speed"</span><span class="op">:</span> <span class="nam">s</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"average\_speed"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="str">"moving\_time"</span><span class="op">:</span> <span class="nam">s</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"moving\_time"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="str">"elapsed\_time"</span><span class="op">:</span> <span class="nam">s</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"elapsed\_time"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="nam">enriched</span> <span class="op">=</span> <span class="nam">convert\_metrics</span><span class="op">(</span><span class="nam">conv\_data</span><span class="op">,</span> <span class="nam">conv\_fields</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="nam">converted</span><span class="op">.</span><span class="nam">append</span><span class="op">(</span><span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="str">"activity\_id"</span><span class="op">:</span> <span class="nam">s</span><span class="op">[</span><span class="str">"activity\_id"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="str">"lap\_index"</span><span class="op">:</span> <span class="nam">s</span><span class="op">[</span><span class="str">"lap\_index"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="str">"distance"</span><span class="op">:</span> <span class="nam">s</span><span class="op">[</span><span class="str">"distance"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="str">"elapsed\_time"</span><span class="op">:</span> <span class="nam">s</span><span class="op">[</span><span class="str">"elapsed\_time"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="str">"moving\_time"</span><span class="op">:</span> <span class="nam">s</span><span class="op">[</span><span class="str">"moving\_time"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="str">"average\_speed"</span><span class="op">:</span> <span class="nam">s</span><span class="op">[</span><span class="str">"average\_speed"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"> <span class="str">"max\_speed"</span><span class="op">:</span> <span class="nam">s</span><span class="op">[</span><span class="str">"max\_speed"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="str">"start\_index"</span><span class="op">:</span> <span class="nam">s</span><span class="op">[</span><span class="str">"start\_index"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="str">"end\_index"</span><span class="op">:</span> <span class="nam">s</span><span class="op">[</span><span class="str">"end\_index"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="str">"split"</span><span class="op">:</span> <span class="nam">split\_value</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="str">"average\_heartrate"</span><span class="op">:</span> <span class="nam">s</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"average\_heartrate"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="str">"pace\_zone"</span><span class="op">:</span> <span class="nam">s</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"pace\_zone"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="str">"conv\_distance"</span><span class="op">:</span> <span class="nam">enriched</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"conv\_distance"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="str">"conv\_avg\_speed"</span><span class="op">:</span> <span class="nam">enriched</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"conv\_avg\_speed"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t"> <span class="str">"conv\_moving\_time"</span><span class="op">:</span> <span class="nam">enriched</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"conv\_moving\_time"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="str">"conv\_elapsed\_time"</span><span class="op">:</span> <span class="nam">enriched</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"conv\_elapsed\_time"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="op">}</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="com"># &#128269; Debug output to verify types</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"[DAO DEBUG] split values: {[row['split'] for row in converted]} | types: {[type(row['split']) for row in converted]}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"> <span class="nam">stmt</span> <span class="op">=</span> <span class="nam">insert</span><span class="op">(</span><span class="nam">Split</span><span class="op">)</span><span class="op">.</span><span class="nam">values</span><span class="op">(</span><span class="nam">converted</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"> <span class="nam">update\_map</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"> <span class="nam">col</span><span class="op">.</span><span class="nam">name</span><span class="op">:</span> <span class="nam">getattr</span><span class="op">(</span><span class="nam">stmt</span><span class="op">.</span><span class="nam">excluded</span><span class="op">,</span> <span class="nam">col</span><span class="op">.</span><span class="nam">name</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"> <span class="key">for</span> <span class="nam">col</span> <span class="key">in</span> <span class="nam">Split</span><span class="op">.</span><span class="nam">\_\_table\_\_</span><span class="op">.</span><span class="nam">columns</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t"> <span class="key">if</span> <span class="nam">col</span><span class="op">.</span><span class="nam">name</span> <span class="key">not</span> <span class="key">in</span> <span class="op">(</span><span class="str">"activity\_id"</span><span class="op">,</span> <span class="str">"lap\_index"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t"> <span class="nam">stmt</span> <span class="op">=</span> <span class="nam">stmt</span><span class="op">.</span><span class="nam">on\_conflict\_do\_update</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"> <span class="nam">index\_elements</span><span class="op">=</span><span class="op">[</span><span class="str">"activity\_id"</span><span class="op">,</span> <span class="str">"lap\_index"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t"> <span class="nam">set\_</span><span class="op">=</span><span class="nam">update\_map</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="nam">result</span> <span class="op">=</span> <span class="nam">session</span><span class="op">.</span><span class="nam">execute</span><span class="op">(</span><span class="nam">stmt</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">commit</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t"> <span class="key">return</span> <span class="nam">result</span><span class="op">.</span><span class="nam">rowcount</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_023ec42a73fd404d\_athlete\_dao\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_023ec42a73fd404d\_token\_dao\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_023ec42a73fd404d\_token\_dao\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\db\dao\token\_dao.py: 65%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
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 <span class="text">Coverage for </span><b>src\db\dao\token\_dao.py</b>:  
 <span class="pc\_cov">65%</span>  
 </h1>  
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 <label for="help\_panel\_state">  
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 </label>  
 <div id="help\_panel">  
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 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">17 statements &nbsp;</span>  
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 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">6<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
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 <a id="prevFileLink" class="nav" href="z\_023ec42a73fd404d\_split\_dao\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_034a03f060e0c6c2\_db\_session\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 13:38 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span><span class="op">.</span><span class="nam">exc</span> <span class="key">import</span> <span class="nam">NoResultFound</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span><span class="op">.</span><span class="nam">dialects</span><span class="op">.</span><span class="nam">postgresql</span> <span class="key">import</span> <span class="nam">insert</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">models</span><span class="op">.</span><span class="nam">tokens</span> <span class="key">import</span> <span class="nam">Token</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="key">def</span> <span class="nam">get\_tokens\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">:</span> <span class="nam">int</span><span class="op">)</span> <span class="op">-></span> <span class="nam">dict</span> <span class="op">|</span> <span class="key">None</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"><span class="str"> Retrieves access, refresh, and expiration tokens for the given athlete.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"><span class="str"> Returns None if not found.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"> <span class="nam">token</span> <span class="op">=</span> <span class="nam">session</span><span class="op">.</span><span class="nam">query</span><span class="op">(</span><span class="nam">Token</span><span class="op">)</span><span class="op">.</span><span class="nam">filter\_by</span><span class="op">(</span><span class="nam">athlete\_id</span><span class="op">=</span><span class="nam">athlete\_id</span><span class="op">)</span><span class="op">.</span><span class="nam">one</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"> <span class="key">return</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="str">"access\_token"</span><span class="op">:</span> <span class="nam">token</span><span class="op">.</span><span class="nam">access\_token</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="str">"refresh\_token"</span><span class="op">:</span> <span class="nam">token</span><span class="op">.</span><span class="nam">refresh\_token</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="str">"expires\_at"</span><span class="op">:</span> <span class="nam">token</span><span class="op">.</span><span class="nam">expires\_at</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="key">except</span> <span class="nam">NoResultFound</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"> <span class="key">return</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"><span class="key">def</span> <span class="nam">insert\_token\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">:</span> <span class="nam">int</span><span class="op">,</span> <span class="nam">access\_token</span><span class="op">:</span> <span class="nam">str</span><span class="op">,</span> <span class="nam">refresh\_token</span><span class="op">:</span> <span class="nam">str</span><span class="op">,</span> <span class="nam">expires\_at</span><span class="op">:</span> <span class="nam">int</span><span class="op">)</span> <span class="op">-></span> <span class="key">None</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"><span class="str"> Inserts or updates a token record for the given athlete using upsert.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="nam">stmt</span> <span class="op">=</span> <span class="nam">insert</span><span class="op">(</span><span class="nam">Token</span><span class="op">)</span><span class="op">.</span><span class="nam">values</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="nam">athlete\_id</span><span class="op">=</span><span class="nam">athlete\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">access\_token</span><span class="op">=</span><span class="nam">access\_token</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">refresh\_token</span><span class="op">=</span><span class="nam">refresh\_token</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="nam">expires\_at</span><span class="op">=</span><span class="nam">expires\_at</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="op">)</span><span class="op">.</span><span class="nam">on\_conflict\_do\_update</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="nam">index\_elements</span><span class="op">=</span><span class="op">[</span><span class="str">"athlete\_id"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="nam">set\_</span><span class="op">=</span><span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="str">"access\_token"</span><span class="op">:</span> <span class="nam">access\_token</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="str">"refresh\_token"</span><span class="op">:</span> <span class="nam">refresh\_token</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="str">"expires\_at"</span><span class="op">:</span> <span class="nam">expires\_at</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">execute</span><span class="op">(</span><span class="nam">stmt</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">commit</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"><span class="key">def</span> <span class="nam">delete\_tokens\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">:</span> <span class="nam">int</span><span class="op">)</span> <span class="op">-></span> <span class="nam">int</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"><span class="str"> Deletes the token record for the given athlete.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"><span class="str"> Returns the number of rows deleted.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="nam">result</span> <span class="op">=</span> <span class="nam">session</span><span class="op">.</span><span class="nam">query</span><span class="op">(</span><span class="nam">Token</span><span class="op">)</span><span class="op">.</span><span class="nam">filter\_by</span><span class="op">(</span><span class="nam">athlete\_id</span><span class="op">=</span><span class="nam">athlete\_id</span><span class="op">)</span><span class="op">.</span><span class="nam">delete</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">commit</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="key">return</span> <span class="nam">result</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_034a03f060e0c6c2\_db\_session\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
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 created at 2025-06-20 13:38 -0500  
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</footer>  
</body>  
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### 📄 htmlcov\z\_034a03f060e0c6c2\_\_\_init\_\_\_py.html

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 <span class="pc\_cov">100%</span>  
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 <input id="help\_panel\_state" type="checkbox">  
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 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
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 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
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 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
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 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_023ec42a73fd404d\_\_\_init\_\_\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
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 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_023ec42a73fd404d\_\_\_init\_\_\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
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</footer>  
</body>  
</html>

### 📄 htmlcov\z\_034a03f060e0c6c2\_db\_session\_py.html

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</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
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 <span class="text">Coverage for </span><b>src\db\db\_session.py</b>:  
 <span class="pc\_cov">92%</span>  
 </h1>  
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 <div class="keyhelp">  
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 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
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 <kbd>u</kbd> &nbsp; up to the index  
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 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_a0a1de4c230ef62c\_\_\_init\_\_\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
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 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span> <span class="key">import</span> <span class="nam">create\_engine</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span><span class="op">.</span><span class="nam">orm</span> <span class="key">import</span> <span class="nam">declarative\_base</span><span class="op">,</span> <span class="nam">sessionmaker</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">import</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">config</span> <span class="key">as</span> <span class="nam">config</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="com"># Global declarative base &#8212; shared across models</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="nam">Base</span> <span class="op">=</span> <span class="nam">declarative\_base</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"><span class="key">def</span> <span class="nam">get\_engine</span><span class="op">(</span><span class="nam">db\_url</span><span class="op">=</span><span class="key">None</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"><span class="str"> Create a SQLAlchemy engine.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"><span class="str"> Allows optional db\_url override for tests or special cases.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="nam">db\_url</span> <span class="op">=</span> <span class="nam">db\_url</span> <span class="key">or</span> <span class="nam">config</span><span class="op">.</span><span class="nam">DATABASE\_URL</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">db\_url</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="key">raise</span> <span class="nam">RuntimeError</span><span class="op">(</span><span class="str">"DATABASE\_URL is not set in configuration."</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="key">return</span> <span class="nam">create\_engine</span><span class="op">(</span><span class="nam">db\_url</span><span class="op">,</span> <span class="nam">echo</span><span class="op">=</span><span class="key">False</span><span class="op">,</span> <span class="nam">future</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"><span class="key">def</span> <span class="nam">get\_session</span><span class="op">(</span><span class="nam">engine</span><span class="op">=</span><span class="key">None</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"><span class="str"> Create a new SQLAlchemy sessionmaker (not a global session).</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"><span class="str"> Allows optional engine injection for test harnesses.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="nam">engine</span> <span class="op">=</span> <span class="nam">engine</span> <span class="key">or</span> <span class="nam">get\_engine</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="nam">SessionLocal</span> <span class="op">=</span> <span class="nam">sessionmaker</span><span class="op">(</span><span class="nam">bind</span><span class="op">=</span><span class="nam">engine</span><span class="op">,</span> <span class="nam">autoflush</span><span class="op">=</span><span class="key">False</span><span class="op">,</span> <span class="nam">autocommit</span><span class="op">=</span><span class="key">False</span><span class="op">,</span> <span class="nam">future</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="key">return</span> <span class="nam">SessionLocal</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_a0a1de4c230ef62c\_\_\_init\_\_\_py.html">&#xbb; next</a>  
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### 📄 htmlcov\z\_145eef247bfb46b6\_\_\_init\_\_\_py.html

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 <input id="help\_panel\_state" type="checkbox">  
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 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
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 <p>  
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 </p>  
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 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
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 <a id="nextFileLink" class="nav" href="z\_145eef247bfb46b6\_app\_py.html">&#xbb; next</a>  
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 created at 2025-06-20 09:34 -0500  
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 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_145eef247bfb46b6\_app\_py.html">&#xbb; next</a>  
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 created at 2025-06-20 09:34 -0500  
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### 📄 htmlcov\z\_145eef247bfb46b6\_app\_py.html

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 </p>  
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 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">flask</span> <span class="key">import</span> <span class="nam">Flask</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="key">import</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">config</span> <span class="key">as</span> <span class="nam">config</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">routes</span><span class="op">.</span><span class="nam">admin\_routes</span> <span class="key">import</span> <span class="nam">admin\_bp</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">routes</span><span class="op">.</span><span class="nam">auth\_routes</span> <span class="key">import</span> <span class="nam">auth\_bp</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">routes</span><span class="op">.</span><span class="nam">activity\_routes</span> <span class="key">import</span> <span class="nam">activity\_bp</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"><span class="key">def</span> <span class="nam">create\_app</span><span class="op">(</span><span class="nam">test\_config</span><span class="op">=</span><span class="key">None</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#9989; ENTERED create\_app()"</span><span class="op">,</span> <span class="nam">flush</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#128193; CWD:"</span><span class="op">,</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getcwd</span><span class="op">(</span><span class="op">)</span><span class="op">,</span> <span class="nam">flush</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#128193; Contents of current working dir:"</span><span class="op">,</span> <span class="nam">os</span><span class="op">.</span><span class="nam">listdir</span><span class="op">(</span><span class="nam">os</span><span class="op">.</span><span class="nam">getcwd</span><span class="op">(</span><span class="op">)</span><span class="op">)</span><span class="op">,</span> <span class="nam">flush</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="nam">env\_mode</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"FLASK\_ENV"</span><span class="op">,</span> <span class="str">"production"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="nam">is\_local</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"IS\_LOCAL"</span><span class="op">,</span> <span class="str">"false"</span><span class="op">)</span><span class="op">.</span><span class="nam">lower</span><span class="op">(</span><span class="op">)</span> <span class="op">==</span> <span class="str">"true"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#127757; FLASK\_ENV={env\_mode} | IS\_LOCAL={is\_local}"</span><span class="op">,</span> <span class="nam">flush</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#128272; ADMIN\_USER:"</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">ADMIN\_USER</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#128272; ADMIN\_PASS:"</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">ADMIN\_PASS</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#128272; STRAVA\_CLIENT\_ID:"</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_CLIENT\_ID</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#128272; STRAVA\_CLIENT\_SECRET:"</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_CLIENT\_SECRET</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#128272; STRAVA\_REDIRECT\_URI:"</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_REDIRECT\_URI</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#128190; CONFIG DATABASE\_URL:"</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">DATABASE\_URL</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="nam">templates\_path</span> <span class="op">=</span> <span class="nam">Path</span><span class="op">(</span><span class="nam">\_\_file\_\_</span><span class="op">)</span><span class="op">.</span><span class="nam">resolve</span><span class="op">(</span><span class="op">)</span><span class="op">.</span><span class="nam">parent</span><span class="op">.</span><span class="nam">parent</span> <span class="op">/</span> <span class="str">"templates"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">app</span> <span class="op">=</span> <span class="nam">Flask</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="nam">\_\_name\_\_</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="nam">instance\_relative\_config</span><span class="op">=</span><span class="key">False</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="nam">template\_folder</span><span class="op">=</span><span class="nam">str</span><span class="op">(</span><span class="nam">templates\_path</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="nam">app</span><span class="op">.</span><span class="nam">config</span><span class="op">.</span><span class="nam">from\_mapping</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="nam">SECRET\_KEY</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">SECRET\_KEY</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="nam">DATABASE\_URL</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">DATABASE\_URL</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="nam">CRON\_SECRET\_KEY</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">CRON\_SECRET\_KEY</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="nam">INTERNAL\_API\_KEY</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">INTERNAL\_API\_KEY</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="key">if</span> <span class="nam">test\_config</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="nam">app</span><span class="op">.</span><span class="nam">config</span><span class="op">.</span><span class="nam">update</span><span class="op">(</span><span class="nam">test\_config</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#128190; CONFIG DATABASE\_URL (from app.config):"</span><span class="op">,</span> <span class="nam">app</span><span class="op">.</span><span class="nam">config</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"DATABASE\_URL"</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="com"># &#9989; Register Blueprints with correct prefixes</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="nam">app</span><span class="op">.</span><span class="nam">register\_blueprint</span><span class="op">(</span><span class="nam">auth\_bp</span><span class="op">,</span> <span class="nam">url\_prefix</span><span class="op">=</span><span class="str">"/auth"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="nam">app</span><span class="op">.</span><span class="nam">register\_blueprint</span><span class="op">(</span><span class="nam">admin\_bp</span><span class="op">,</span> <span class="nam">url\_prefix</span><span class="op">=</span><span class="str">"/admin"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="nam">app</span><span class="op">.</span><span class="nam">register\_blueprint</span><span class="op">(</span><span class="nam">activity\_bp</span><span class="op">,</span> <span class="nam">url\_prefix</span><span class="op">=</span><span class="str">"/sync"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t"> <span class="op">@</span><span class="nam">app</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/ping"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="key">def</span> <span class="nam">ping</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="key">return</span> <span class="str">"pong"</span><span class="op">,</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="op">@</span><span class="nam">app</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/db-check"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="key">def</span> <span class="nam">db\_check</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"> <span class="key">from</span> <span class="nam">sqlalchemy</span> <span class="key">import</span> <span class="nam">create\_engine</span><span class="op">,</span> <span class="nam">inspect</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"> <span class="nam">db\_url</span> <span class="op">=</span> <span class="nam">config</span><span class="op">.</span><span class="nam">DATABASE\_URL</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#129514; /db-check using DB URL:"</span><span class="op">,</span> <span class="nam">db\_url</span><span class="op">,</span> <span class="nam">flush</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t"> <span class="nam">engine</span> <span class="op">=</span> <span class="nam">create\_engine</span><span class="op">(</span><span class="nam">db\_url</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t"> <span class="nam">insp</span> <span class="op">=</span> <span class="nam">inspect</span><span class="op">(</span><span class="nam">engine</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t"> <span class="nam">columns</span> <span class="op">=</span> <span class="nam">insp</span><span class="op">.</span><span class="nam">get\_columns</span><span class="op">(</span><span class="str">"splits"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"> <span class="nam">split\_col</span> <span class="op">=</span> <span class="nam">next</span><span class="op">(</span><span class="op">(</span><span class="nam">c</span> <span class="key">for</span> <span class="nam">c</span> <span class="key">in</span> <span class="nam">columns</span> <span class="key">if</span> <span class="nam">c</span><span class="op">[</span><span class="str">"name"</span><span class="op">]</span> <span class="op">==</span> <span class="str">"split"</span><span class="op">)</span><span class="op">,</span> <span class="key">None</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#129514; SPLIT COLUMN:"</span><span class="op">,</span> <span class="nam">split\_col</span><span class="op">,</span> <span class="nam">flush</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="key">return</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="str">"status"</span><span class="op">:</span> <span class="str">"ok"</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t"> <span class="str">"db"</span><span class="op">:</span> <span class="key">True</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t75" href="#t75">75</a></span><span class="t"> <span class="str">"split\_column"</span><span class="op">:</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t76" href="#t76">76</a></span><span class="t"> <span class="str">"name"</span><span class="op">:</span> <span class="nam">split\_col</span><span class="op">[</span><span class="str">"name"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t77" href="#t77">77</a></span><span class="t"> <span class="str">"type"</span><span class="op">:</span> <span class="nam">str</span><span class="op">(</span><span class="nam">split\_col</span><span class="op">[</span><span class="str">"type"</span><span class="op">]</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t78" href="#t78">78</a></span><span class="t"> <span class="str">"nullable"</span><span class="op">:</span> <span class="nam">split\_col</span><span class="op">[</span><span class="str">"nullable"</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t79" href="#t79">79</a></span><span class="t"> <span class="op">}</span> <span class="key">if</span> <span class="nam">split\_col</span> <span class="key">else</span> <span class="str">"not found"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t80" href="#t80">80</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t81" href="#t81">81</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t82" href="#t82">82</a></span><span class="t"> <span class="key">import</span> <span class="nam">traceback</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t83" href="#t83">83</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#128293; DB-CHECK EXCEPTION:"</span><span class="op">,</span> <span class="nam">flush</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t84" href="#t84">84</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t85" href="#t85">85</a></span><span class="t"> <span class="key">return</span> <span class="op">{</span><span class="str">"status"</span><span class="op">:</span> <span class="str">"fail"</span><span class="op">,</span> <span class="str">"error"</span><span class="op">:</span> <span class="nam">str</span><span class="op">(</span><span class="nam">e</span><span class="op">)</span><span class="op">}</span><span class="op">,</span> <span class="num">500</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t86" href="#t86">86</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t87" href="#t87">87</a></span><span class="t"> <span class="op">@</span><span class="nam">app</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/startup"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t88" href="#t88">88</a></span><span class="t"> <span class="key">def</span> <span class="nam">startup</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t89" href="#t89">89</a></span><span class="t"> <span class="key">return</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t90" href="#t90">90</a></span><span class="t"> <span class="str">"status"</span><span class="op">:</span> <span class="str">"started"</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t91" href="#t91">91</a></span><span class="t"> <span class="str">"env\_PORT"</span><span class="op">:</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"PORT"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t92" href="#t92">92</a></span><span class="t"> <span class="str">"env\_DATABASE\_URL"</span><span class="op">:</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"DATABASE\_URL"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t93" href="#t93">93</a></span><span class="t"> <span class="str">"config\_DATABASE\_URL"</span><span class="op">:</span> <span class="nam">config</span><span class="op">.</span><span class="nam">DATABASE\_URL</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t94" href="#t94">94</a></span><span class="t"> <span class="str">"cwd"</span><span class="op">:</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getcwd</span><span class="op">(</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t95" href="#t95">95</a></span><span class="t"> <span class="str">"files"</span><span class="op">:</span> <span class="op">[</span><span class="nam">p</span><span class="op">.</span><span class="nam">name</span> <span class="key">for</span> <span class="nam">p</span> <span class="key">in</span> <span class="nam">Path</span><span class="op">(</span><span class="str">"."</span><span class="op">)</span><span class="op">.</span><span class="nam">iterdir</span><span class="op">(</span><span class="op">)</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t96" href="#t96">96</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t97" href="#t97">97</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t98" href="#t98">98</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#9989; Registered routes:"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t99" href="#t99">99</a></span><span class="t"> <span class="key">for</span> <span class="nam">rule</span> <span class="key">in</span> <span class="nam">app</span><span class="op">.</span><span class="nam">url\_map</span><span class="op">.</span><span class="nam">iter\_rules</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t100" href="#t100">100</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f" {rule.rule} -> {rule.endpoint}"</span><span class="op">,</span> <span class="nam">flush</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t101" href="#t101">101</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t102" href="#t102">102</a></span><span class="t"> <span class="key">return</span> <span class="nam">app</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_145eef247bfb46b6\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_034a03f060e0c6c2\_\_\_init\_\_\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 11:56 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_33ea1954bbe60e2e\_\_\_init\_\_\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
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 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
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</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\services\\_\_init\_\_.py</b>:  
 <span class="pc\_cov">100%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
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 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">0 statements &nbsp;</span>  
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 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_fa000675cb663943\_main\_pipeline\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_33ea1954bbe60e2e\_activity\_service\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
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 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
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 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
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</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_fa000675cb663943\_main\_pipeline\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_33ea1954bbe60e2e\_activity\_service\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_33ea1954bbe60e2e\_activity\_service\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
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 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\services\activity\_service.py</b>:  
 <span class="pc\_cov">90%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
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 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
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 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
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 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">124 statements &nbsp;</span>  
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 <a id="prevFileLink" class="nav" href="z\_33ea1954bbe60e2e\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_33ea1954bbe60e2e\_ingestion\_orchestrator\_service\_py.html">&#xbb; next</a>  
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 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">import</span> <span class="nam">time</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">import</span> <span class="nam">logging</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">datetime</span> <span class="key">import</span> <span class="nam">datetime</span><span class="op">,</span> <span class="nam">timedelta</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span> <span class="key">import</span> <span class="nam">text</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span><span class="op">.</span><span class="nam">exc</span> <span class="key">import</span> <span class="nam">SQLAlchemyError</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">services</span><span class="op">.</span><span class="nam">token\_service</span> <span class="key">import</span> <span class="nam">get\_valid\_token</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">dao</span><span class="op">.</span><span class="nam">split\_dao</span> <span class="key">import</span> <span class="nam">upsert\_splits</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">dao</span><span class="op">.</span><span class="nam">activity\_dao</span> <span class="key">import</span> <span class="nam">ActivityDAO</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">services</span><span class="op">.</span><span class="nam">strava\_access\_service</span> <span class="key">import</span> <span class="nam">StravaClient</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">logger</span> <span class="key">import</span> <span class="nam">get\_logger</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"><span class="key">import</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">config</span> <span class="key">as</span> <span class="nam">config</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">conversions</span> <span class="key">import</span> <span class="nam">convert\_metrics</span><span class="op">,</span> <span class="nam">meters\_to\_miles</span><span class="op">,</span> <span class="nam">mps\_to\_min\_per\_mile</span><span class="op">,</span> <span class="nam">format\_seconds\_to\_hms</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"><span class="nam">log</span> <span class="op">=</span> <span class="nam">get\_logger</span><span class="op">(</span><span class="nam">\_\_name\_\_</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"><span class="nam">log</span><span class="op">.</span><span class="nam">setLevel</span><span class="op">(</span><span class="nam">logging</span><span class="op">.</span><span class="nam">INFO</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"><span class="nam">DEFAULT\_BATCH\_SIZE</span> <span class="op">=</span> <span class="num">20</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"><span class="nam">DEFAULT\_LOOKBACK\_DAYS</span> <span class="op">=</span> <span class="num">30</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"><span class="nam">DEFAULT\_PER\_PAGE</span> <span class="op">=</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"><span class="key">def</span> <span class="nam">get\_activities\_to\_enrich</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">limit</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="nam">result</span> <span class="op">=</span> <span class="nam">session</span><span class="op">.</span><span class="nam">execute</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="nam">text</span><span class="op">(</span><span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"><span class="str"> SELECT activity\_id FROM activities</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"><span class="str"> WHERE athlete\_id = :athlete\_id</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"><span class="str"> ORDER BY start\_date DESC</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"><span class="str"> LIMIT :limit</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"><span class="str"> """</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="op">{</span><span class="str">"athlete\_id"</span><span class="op">:</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="str">"limit"</span><span class="op">:</span> <span class="nam">limit</span><span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="key">return</span> <span class="op">[</span><span class="nam">row</span><span class="op">.</span><span class="nam">activity\_id</span> <span class="key">for</span> <span class="nam">row</span> <span class="key">in</span> <span class="nam">result</span><span class="op">.</span><span class="nam">fetchall</span><span class="op">(</span><span class="op">)</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"><span class="key">def</span> <span class="nam">enrich\_one\_activity</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">access\_token</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="nam">client</span> <span class="op">=</span> <span class="nam">StravaClient</span><span class="op">(</span><span class="nam">access\_token</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="nam">activity\_json</span> <span class="op">=</span> <span class="nam">client</span><span class="op">.</span><span class="nam">get\_activity</span><span class="op">(</span><span class="nam">activity\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="nam">zones\_data</span> <span class="op">=</span> <span class="nam">client</span><span class="op">.</span><span class="nam">get\_hr\_zones</span><span class="op">(</span><span class="nam">activity\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="nam">streams</span> <span class="op">=</span> <span class="nam">client</span><span class="op">.</span><span class="nam">get\_streams</span><span class="op">(</span><span class="nam">activity\_id</span><span class="op">,</span> <span class="nam">keys</span><span class="op">=</span><span class="op">[</span><span class="str">"distance"</span><span class="op">,</span> <span class="str">"time"</span><span class="op">,</span> <span class="str">"velocity\_smooth"</span><span class="op">,</span> <span class="str">"heartrate"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#128202; streams sample: distances={len(streams.get('distance', []))}, times={len(streams.get('time', []))}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#10145;&#65039; Enriching activity {activity\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#128269; name: {activity\_json.get('name')}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="nam">hr\_zone\_pcts</span> <span class="op">=</span> <span class="nam">extract\_hr\_zone\_percentages</span><span class="op">(</span><span class="nam">zones\_data</span><span class="op">)</span> <span class="key">or</span> <span class="op">[</span><span class="num">0.0</span><span class="op">]</span> <span class="op">\*</span> <span class="num">5</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="nam">update\_activity\_enrichment</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">,</span> <span class="nam">activity\_json</span><span class="op">,</span> <span class="nam">hr\_zone\_pcts</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"-- streams keys: {list(streams.keys())}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="nam">splits</span> <span class="op">=</span> <span class="nam">build\_mile\_splits</span><span class="op">(</span><span class="nam">activity\_id</span><span class="op">,</span> <span class="nam">streams</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"--> splits built: {splits}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t"> <span class="key">if</span> <span class="nam">splits</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="nam">upsert\_splits</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">splits</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#9989; Synced {len(splits)} splits for activity {activity\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#9989; Enriched activity {activity\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="key">return</span> <span class="key">True</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">error</span><span class="op">(</span><span class="str">f"&#128293; Exception while enriching {activity\_id}: {e}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"> <span class="key">return</span> <span class="key">True</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"><span class="key">def</span> <span class="nam">enrich\_one\_activity\_with\_refresh</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t"> <span class="nam">access\_token</span> <span class="op">=</span> <span class="nam">get\_valid\_token</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t"> <span class="key">return</span> <span class="nam">enrich\_one\_activity</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">access\_token</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">error</span><span class="op">(</span><span class="str">f"Failed enrichment for activity {activity\_id}: {e}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t"> <span class="key">return</span> <span class="key">True</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t"><span class="key">def</span> <span class="nam">update\_activity\_enrichment</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">,</span> <span class="nam">activity\_json</span><span class="op">,</span> <span class="nam">hr\_zone\_pcts</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="nam">conv\_fields</span> <span class="op">=</span> <span class="op">[</span><span class="str">"distance"</span><span class="op">,</span> <span class="str">"elevation"</span><span class="op">,</span> <span class="str">"average\_speed"</span><span class="op">,</span> <span class="str">"max\_speed"</span><span class="op">,</span> <span class="str">"moving\_time"</span><span class="op">,</span> <span class="str">"elapsed\_time"</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="nam">conv\_data</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t"> <span class="str">"distance"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"distance"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t75" href="#t75">75</a></span><span class="t"> <span class="str">"elevation"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"total\_elevation\_gain"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t76" href="#t76">76</a></span><span class="t"> <span class="str">"average\_speed"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"average\_speed"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t77" href="#t77">77</a></span><span class="t"> <span class="str">"max\_speed"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"max\_speed"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t78" href="#t78">78</a></span><span class="t"> <span class="str">"moving\_time"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"moving\_time"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t79" href="#t79">79</a></span><span class="t"> <span class="str">"elapsed\_time"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"elapsed\_time"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t80" href="#t80">80</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t81" href="#t81">81</a></span><span class="t"> <span class="nam">conv</span> <span class="op">=</span> <span class="nam">convert\_metrics</span><span class="op">(</span><span class="nam">conv\_data</span><span class="op">,</span> <span class="nam">conv\_fields</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t82" href="#t82">82</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t83" href="#t83">83</a></span><span class="t"> <span class="nam">params</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t84" href="#t84">84</a></span><span class="t"> <span class="str">"activity\_id"</span><span class="op">:</span> <span class="nam">activity\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t85" href="#t85">85</a></span><span class="t"> <span class="str">"name"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"name"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t86" href="#t86">86</a></span><span class="t"> <span class="str">"distance"</span><span class="op">:</span> <span class="nam">conv\_data</span><span class="op">[</span><span class="str">"distance"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t87" href="#t87">87</a></span><span class="t"> <span class="str">"moving\_time"</span><span class="op">:</span> <span class="nam">conv\_data</span><span class="op">[</span><span class="str">"moving\_time"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t88" href="#t88">88</a></span><span class="t"> <span class="str">"elapsed\_time"</span><span class="op">:</span> <span class="nam">conv\_data</span><span class="op">[</span><span class="str">"elapsed\_time"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t89" href="#t89">89</a></span><span class="t"> <span class="str">"elevation"</span><span class="op">:</span> <span class="nam">conv\_data</span><span class="op">[</span><span class="str">"elevation"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t90" href="#t90">90</a></span><span class="t"> <span class="str">"type"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"type"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t91" href="#t91">91</a></span><span class="t"> <span class="str">"avg\_speed"</span><span class="op">:</span> <span class="nam">conv\_data</span><span class="op">[</span><span class="str">"average\_speed"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t92" href="#t92">92</a></span><span class="t"> <span class="str">"max\_speed"</span><span class="op">:</span> <span class="nam">conv\_data</span><span class="op">[</span><span class="str">"max\_speed"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t93" href="#t93">93</a></span><span class="t"> <span class="str">"suffer\_score"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"suffer\_score"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t94" href="#t94">94</a></span><span class="t"> <span class="str">"average\_heartrate"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"average\_heartrate"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t95" href="#t95">95</a></span><span class="t"> <span class="str">"max\_heartrate"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"max\_heartrate"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t96" href="#t96">96</a></span><span class="t"> <span class="str">"calories"</span><span class="op">:</span> <span class="nam">activity\_json</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"calories"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t97" href="#t97">97</a></span><span class="t"> <span class="str">"hr\_zone\_1"</span><span class="op">:</span> <span class="nam">hr\_zone\_pcts</span><span class="op">[</span><span class="num">0</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t98" href="#t98">98</a></span><span class="t"> <span class="str">"hr\_zone\_2"</span><span class="op">:</span> <span class="nam">hr\_zone\_pcts</span><span class="op">[</span><span class="num">1</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t99" href="#t99">99</a></span><span class="t"> <span class="str">"hr\_zone\_3"</span><span class="op">:</span> <span class="nam">hr\_zone\_pcts</span><span class="op">[</span><span class="num">2</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t100" href="#t100">100</a></span><span class="t"> <span class="str">"hr\_zone\_4"</span><span class="op">:</span> <span class="nam">hr\_zone\_pcts</span><span class="op">[</span><span class="num">3</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t101" href="#t101">101</a></span><span class="t"> <span class="str">"hr\_zone\_5"</span><span class="op">:</span> <span class="nam">hr\_zone\_pcts</span><span class="op">[</span><span class="num">4</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t102" href="#t102">102</a></span><span class="t"> <span class="op">\*\*</span><span class="nam">conv</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t103" href="#t103">103</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t104" href="#t104">104</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t105" href="#t105">105</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">execute</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t106" href="#t106">106</a></span><span class="t"> <span class="nam">text</span><span class="op">(</span><span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t107" href="#t107">107</a></span><span class="t"><span class="str"> UPDATE activities SET</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t108" href="#t108">108</a></span><span class="t"><span class="str"> name = :name,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t109" href="#t109">109</a></span><span class="t"><span class="str"> distance = :distance,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t110" href="#t110">110</a></span><span class="t"><span class="str"> moving\_time = :moving\_time,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t111" href="#t111">111</a></span><span class="t"><span class="str"> elapsed\_time = :elapsed\_time,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t112" href="#t112">112</a></span><span class="t"><span class="str"> total\_elevation\_gain = :elevation,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t113" href="#t113">113</a></span><span class="t"><span class="str"> type = :type,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t114" href="#t114">114</a></span><span class="t"><span class="str"> average\_speed = :avg\_speed,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t115" href="#t115">115</a></span><span class="t"><span class="str"> max\_speed = :max\_speed,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t116" href="#t116">116</a></span><span class="t"><span class="str"> suffer\_score = :suffer\_score,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t117" href="#t117">117</a></span><span class="t"><span class="str"> average\_heartrate = :average\_heartrate,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t118" href="#t118">118</a></span><span class="t"><span class="str"> max\_heartrate = :max\_heartrate,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t119" href="#t119">119</a></span><span class="t"><span class="str"> calories = :calories,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t120" href="#t120">120</a></span><span class="t"><span class="str"> conv\_distance = :conv\_distance,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t121" href="#t121">121</a></span><span class="t"><span class="str"> conv\_elevation\_feet = :conv\_elevation\_feet,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t122" href="#t122">122</a></span><span class="t"><span class="str"> conv\_avg\_speed = :conv\_avg\_speed,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t123" href="#t123">123</a></span><span class="t"><span class="str"> conv\_max\_speed = :conv\_max\_speed,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t124" href="#t124">124</a></span><span class="t"><span class="str"> conv\_moving\_time = :conv\_moving\_time,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t125" href="#t125">125</a></span><span class="t"><span class="str"> conv\_elapsed\_time = :conv\_elapsed\_time,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t126" href="#t126">126</a></span><span class="t"><span class="str"> hr\_zone\_1 = :hr\_zone\_1,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t127" href="#t127">127</a></span><span class="t"><span class="str"> hr\_zone\_2 = :hr\_zone\_2,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t128" href="#t128">128</a></span><span class="t"><span class="str"> hr\_zone\_3 = :hr\_zone\_3,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t129" href="#t129">129</a></span><span class="t"><span class="str"> hr\_zone\_4 = :hr\_zone\_4,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t130" href="#t130">130</a></span><span class="t"><span class="str"> hr\_zone\_5 = :hr\_zone\_5</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t131" href="#t131">131</a></span><span class="t"><span class="str"> WHERE activity\_id = :activity\_id</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t132" href="#t132">132</a></span><span class="t"><span class="str"> """</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t133" href="#t133">133</a></span><span class="t"> <span class="nam">params</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t134" href="#t134">134</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t135" href="#t135">135</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">commit</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t136" href="#t136">136</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t137" href="#t137">137</a></span><span class="t"><span class="key">def</span> <span class="nam">extract\_hr\_zone\_percentages</span><span class="op">(</span><span class="nam">zones\_data</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t138" href="#t138">138</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t139" href="#t139">139</a></span><span class="t"> <span class="key">for</span> <span class="nam">zone\_group</span> <span class="key">in</span> <span class="nam">zones\_data</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t140" href="#t140">140</a></span><span class="t"> <span class="key">if</span> <span class="nam">zone\_group</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"type"</span><span class="op">)</span> <span class="op">==</span> <span class="str">"heartrate"</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t141" href="#t141">141</a></span><span class="t"> <span class="nam">buckets</span> <span class="op">=</span> <span class="nam">zone\_group</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"distribution\_buckets"</span><span class="op">,</span> <span class="op">[</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t142" href="#t142">142</a></span><span class="t"> <span class="nam">times</span> <span class="op">=</span> <span class="op">[</span><span class="nam">b</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"time"</span><span class="op">,</span> <span class="num">0.0</span><span class="op">)</span> <span class="key">for</span> <span class="nam">b</span> <span class="key">in</span> <span class="nam">buckets</span><span class="op">[</span><span class="op">:</span><span class="num">5</span><span class="op">]</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t143" href="#t143">143</a></span><span class="t"> <span class="nam">total\_time</span> <span class="op">=</span> <span class="nam">sum</span><span class="op">(</span><span class="nam">times</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t144" href="#t144">144</a></span><span class="t"> <span class="key">if</span> <span class="nam">total\_time</span> <span class="op">></span> <span class="num">0</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t145" href="#t145">145</a></span><span class="t"> <span class="key">return</span> <span class="op">[</span><span class="nam">round</span><span class="op">(</span><span class="op">(</span><span class="nam">t</span> <span class="op">/</span> <span class="nam">total\_time</span><span class="op">)</span> <span class="op">\*</span> <span class="num">100</span><span class="op">,</span> <span class="num">2</span><span class="op">)</span> <span class="key">for</span> <span class="nam">t</span> <span class="key">in</span> <span class="nam">times</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t146" href="#t146">146</a></span><span class="t"> <span class="key">else</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t147" href="#t147">147</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">warning</span><span class="op">(</span><span class="str">"&#9888;&#65039; Total HR zone time is zero &#8212; returning zeros."</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t148" href="#t148">148</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t149" href="#t149">149</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">warning</span><span class="op">(</span><span class="str">f"&#9888;&#65039; HR zone extraction failed: {e}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t150" href="#t150">150</a></span><span class="t"> <span class="key">return</span> <span class="op">[</span><span class="num">0.0</span><span class="op">]</span> <span class="op">\*</span> <span class="num">5</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t151" href="#t151">151</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t152" href="#t152">152</a></span><span class="t"><span class="key">def</span> <span class="nam">build\_mile\_splits</span><span class="op">(</span><span class="nam">activity\_id</span><span class="op">,</span> <span class="nam">streams</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t153" href="#t153">153</a></span><span class="t"> <span class="key">def</span> <span class="nam">get\_data</span><span class="op">(</span><span class="nam">key</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t154" href="#t154">154</a></span><span class="t"> <span class="key">if</span> <span class="nam">isinstance</span><span class="op">(</span><span class="nam">streams</span><span class="op">,</span> <span class="nam">list</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t155" href="#t155">155</a></span><span class="t"> <span class="key">for</span> <span class="nam">s</span> <span class="key">in</span> <span class="nam">streams</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t156" href="#t156">156</a></span><span class="t"> <span class="key">if</span> <span class="nam">s</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"type"</span><span class="op">)</span> <span class="op">==</span> <span class="nam">key</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t157" href="#t157">157</a></span><span class="t"> <span class="key">return</span> <span class="nam">s</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"data"</span><span class="op">,</span> <span class="op">[</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t158" href="#t158">158</a></span><span class="t"> <span class="key">elif</span> <span class="nam">isinstance</span><span class="op">(</span><span class="nam">streams</span><span class="op">,</span> <span class="nam">dict</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t159" href="#t159">159</a></span><span class="t"> <span class="key">return</span> <span class="nam">streams</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="nam">key</span><span class="op">,</span> <span class="op">[</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t160" href="#t160">160</a></span><span class="t"> <span class="key">return</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t161" href="#t161">161</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t162" href="#t162">162</a></span><span class="t"> <span class="nam">distances</span> <span class="op">=</span> <span class="nam">get\_data</span><span class="op">(</span><span class="str">"distance"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t163" href="#t163">163</a></span><span class="t"> <span class="nam">times</span> <span class="op">=</span> <span class="nam">get\_data</span><span class="op">(</span><span class="str">"time"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t164" href="#t164">164</a></span><span class="t"> <span class="nam">paces</span> <span class="op">=</span> <span class="nam">get\_data</span><span class="op">(</span><span class="str">"velocity\_smooth"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t165" href="#t165">165</a></span><span class="t"> <span class="nam">hrs</span> <span class="op">=</span> <span class="nam">get\_data</span><span class="op">(</span><span class="str">"heartrate"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t166" href="#t166">166</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t167" href="#t167">167</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"-- samples: distances={len(distances)}, times={len(times)}, paces={len(paces)}, hrs={len(hrs)}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t168" href="#t168">168</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t169" href="#t169">169</a></span><span class="t"> <span class="nam">splits</span> <span class="op">=</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t170" href="#t170">170</a></span><span class="t"> <span class="nam">mile\_threshold</span> <span class="op">=</span> <span class="num">1609.344</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t171" href="#t171">171</a></span><span class="t"> <span class="nam">mile\_index</span> <span class="op">=</span> <span class="num">1</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t172" href="#t172">172</a></span><span class="t"> <span class="nam">start\_index</span> <span class="op">=</span> <span class="num">0</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t173" href="#t173">173</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t174" href="#t174">174</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t175" href="#t175">175</a></span><span class="t"> <span class="key">for</span> <span class="nam">i</span><span class="op">,</span> <span class="nam">d</span> <span class="key">in</span> <span class="nam">enumerate</span><span class="op">(</span><span class="nam">distances</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t176" href="#t176">176</a></span><span class="t"> <span class="nam">segment\_distance</span> <span class="op">=</span> <span class="nam">float</span><span class="op">(</span><span class="nam">d</span><span class="op">)</span> <span class="op">-</span> <span class="nam">float</span><span class="op">(</span><span class="nam">distances</span><span class="op">[</span><span class="nam">start\_index</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t177" href="#t177">177</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t178" href="#t178">178</a></span><span class="t"> <span class="key">if</span> <span class="nam">i</span> <span class="op">==</span> <span class="nam">len</span><span class="op">(</span><span class="nam">distances</span><span class="op">)</span> <span class="op">-</span> <span class="num">1</span> <span class="key">and</span> <span class="nam">segment\_distance</span> <span class="op">&lt;</span> <span class="op">(</span><span class="nam">mile\_threshold</span> <span class="op">\*</span> <span class="num">0.5</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t179" href="#t179">179</a></span><span class="t"> <span class="key">break</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t180" href="#t180">180</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t181" href="#t181">181</a></span><span class="t"> <span class="key">if</span> <span class="nam">float</span><span class="op">(</span><span class="nam">d</span><span class="op">)</span> <span class="op">>=</span> <span class="nam">mile\_index</span> <span class="op">\*</span> <span class="nam">mile\_threshold</span> <span class="key">or</span> <span class="nam">i</span> <span class="op">==</span> <span class="nam">len</span><span class="op">(</span><span class="nam">distances</span><span class="op">)</span> <span class="op">-</span> <span class="num">1</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t182" href="#t182">182</a></span><span class="t"> <span class="nam">segment\_time</span> <span class="op">=</span> <span class="nam">float</span><span class="op">(</span><span class="nam">times</span><span class="op">[</span><span class="nam">i</span><span class="op">]</span><span class="op">)</span> <span class="op">-</span> <span class="nam">float</span><span class="op">(</span><span class="nam">times</span><span class="op">[</span><span class="nam">start\_index</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t183" href="#t183">183</a></span><span class="t"> <span class="nam">segment\_speed</span> <span class="op">=</span> <span class="nam">sum</span><span class="op">(</span><span class="nam">map</span><span class="op">(</span><span class="nam">float</span><span class="op">,</span> <span class="nam">paces</span><span class="op">[</span><span class="nam">start\_index</span><span class="op">:</span><span class="nam">i</span> <span class="op">+</span> <span class="num">1</span><span class="op">]</span><span class="op">)</span><span class="op">)</span> <span class="op">/</span> <span class="op">(</span><span class="nam">i</span> <span class="op">+</span> <span class="num">1</span> <span class="op">-</span> <span class="nam">start\_index</span><span class="op">)</span> <span class="key">if</span> <span class="nam">paces</span> <span class="key">else</span> <span class="num">0</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t184" href="#t184">184</a></span><span class="t"> <span class="nam">segment\_hr</span> <span class="op">=</span> <span class="nam">sum</span><span class="op">(</span><span class="nam">map</span><span class="op">(</span><span class="nam">float</span><span class="op">,</span> <span class="nam">hrs</span><span class="op">[</span><span class="nam">start\_index</span><span class="op">:</span><span class="nam">i</span> <span class="op">+</span> <span class="num">1</span><span class="op">]</span><span class="op">)</span><span class="op">)</span> <span class="op">/</span> <span class="op">(</span><span class="nam">i</span> <span class="op">+</span> <span class="num">1</span> <span class="op">-</span> <span class="nam">start\_index</span><span class="op">)</span> <span class="key">if</span> <span class="nam">hrs</span> <span class="key">else</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t185" href="#t185">185</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t186" href="#t186">186</a></span><span class="t"> <span class="nam">splits</span><span class="op">.</span><span class="nam">append</span><span class="op">(</span><span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t187" href="#t187">187</a></span><span class="t"> <span class="str">"activity\_id"</span><span class="op">:</span> <span class="nam">activity\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t188" href="#t188">188</a></span><span class="t"> <span class="str">"lap\_index"</span><span class="op">:</span> <span class="nam">mile\_index</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t189" href="#t189">189</a></span><span class="t"> <span class="str">"distance"</span><span class="op">:</span> <span class="nam">segment\_distance</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t190" href="#t190">190</a></span><span class="t"> <span class="str">"elapsed\_time"</span><span class="op">:</span> <span class="nam">segment\_time</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t191" href="#t191">191</a></span><span class="t"> <span class="str">"moving\_time"</span><span class="op">:</span> <span class="nam">segment\_time</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t192" href="#t192">192</a></span><span class="t"> <span class="str">"average\_speed"</span><span class="op">:</span> <span class="nam">segment\_speed</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t193" href="#t193">193</a></span><span class="t"> <span class="str">"max\_speed"</span><span class="op">:</span> <span class="nam">max</span><span class="op">(</span><span class="nam">map</span><span class="op">(</span><span class="nam">float</span><span class="op">,</span> <span class="nam">paces</span><span class="op">[</span><span class="nam">start\_index</span><span class="op">:</span><span class="nam">i</span> <span class="op">+</span> <span class="num">1</span><span class="op">]</span><span class="op">)</span><span class="op">)</span> <span class="key">if</span> <span class="nam">paces</span> <span class="key">else</span> <span class="key">None</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t194" href="#t194">194</a></span><span class="t"> <span class="str">"start\_index"</span><span class="op">:</span> <span class="nam">start\_index</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t195" href="#t195">195</a></span><span class="t"> <span class="str">"end\_index"</span><span class="op">:</span> <span class="nam">i</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t196" href="#t196">196</a></span><span class="t"> <span class="str">"split"</span><span class="op">:</span> <span class="nam">mile\_index</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t197" href="#t197">197</a></span><span class="t"> <span class="str">"average\_heartrate"</span><span class="op">:</span> <span class="nam">segment\_hr</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t198" href="#t198">198</a></span><span class="t"> <span class="str">"pace\_zone"</span><span class="op">:</span> <span class="key">None</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t199" href="#t199">199</a></span><span class="t"> <span class="op">\*\*</span><span class="nam">convert\_metrics</span><span class="op">(</span><span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t200" href="#t200">200</a></span><span class="t"> <span class="str">"distance"</span><span class="op">:</span> <span class="nam">segment\_distance</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t201" href="#t201">201</a></span><span class="t"> <span class="str">"average\_speed"</span><span class="op">:</span> <span class="nam">segment\_speed</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t202" href="#t202">202</a></span><span class="t"> <span class="str">"moving\_time"</span><span class="op">:</span> <span class="nam">segment\_time</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t203" href="#t203">203</a></span><span class="t"> <span class="str">"elapsed\_time"</span><span class="op">:</span> <span class="nam">segment\_time</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t204" href="#t204">204</a></span><span class="t"> <span class="op">}</span><span class="op">,</span> <span class="op">[</span><span class="str">"distance"</span><span class="op">,</span> <span class="str">"average\_speed"</span><span class="op">,</span> <span class="str">"moving\_time"</span><span class="op">,</span> <span class="str">"elapsed\_time"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t205" href="#t205">205</a></span><span class="t"> <span class="op">}</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t206" href="#t206">206</a></span><span class="t"> <span class="nam">start\_index</span> <span class="op">=</span> <span class="nam">i</span> <span class="op">+</span> <span class="num">1</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t207" href="#t207">207</a></span><span class="t"> <span class="nam">mile\_index</span> <span class="op">+=</span> <span class="num">1</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t208" href="#t208">208</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t209" href="#t209">209</a></span><span class="t"> <span class="nam">log</span><span class="op">.</span><span class="nam">error</span><span class="op">(</span><span class="str">f"&#128293; Error while building splits: {e}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t210" href="#t210">210</a></span><span class="t"> <span class="key">return</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t211" href="#t211">211</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t212" href="#t212">212</a></span><span class="t"> <span class="key">return</span> <span class="nam">splits</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t213" href="#t213">213</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t214" href="#t214">214</a></span><span class="t"><span class="key">class</span> <span class="nam">ActivityIngestionService</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t215" href="#t215">215</a></span><span class="t"> <span class="key">def</span> <span class="nam">\_\_init\_\_</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t216" href="#t216">216</a></span><span class="t"> <span class="nam">self</span><span class="op">.</span><span class="nam">session</span> <span class="op">=</span> <span class="nam">session</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t217" href="#t217">217</a></span><span class="t"> <span class="nam">self</span><span class="op">.</span><span class="nam">athlete\_id</span> <span class="op">=</span> <span class="nam">athlete\_id</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t218" href="#t218">218</a></span><span class="t"> <span class="nam">self</span><span class="op">.</span><span class="nam">access\_token</span> <span class="op">=</span> <span class="nam">get\_valid\_token</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t219" href="#t219">219</a></span><span class="t"> <span class="nam">self</span><span class="op">.</span><span class="nam">client</span> <span class="op">=</span> <span class="nam">StravaClient</span><span class="op">(</span><span class="nam">self</span><span class="op">.</span><span class="nam">access\_token</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t220" href="#t220">220</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t221" href="#t221">221</a></span><span class="t"> <span class="key">def</span> <span class="nam">ingest\_recent</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">lookback\_days</span><span class="op">=</span><span class="nam">DEFAULT\_LOOKBACK\_DAYS</span><span class="op">,</span> <span class="nam">max\_activities</span><span class="op">=</span><span class="key">None</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t222" href="#t222">222</a></span><span class="t"> <span class="nam">after</span> <span class="op">=</span> <span class="nam">int</span><span class="op">(</span><span class="op">(</span><span class="nam">datetime</span><span class="op">.</span><span class="nam">utcnow</span><span class="op">(</span><span class="op">)</span> <span class="op">-</span> <span class="nam">timedelta</span><span class="op">(</span><span class="nam">days</span><span class="op">=</span><span class="nam">lookback\_days</span><span class="op">)</span><span class="op">)</span><span class="op">.</span><span class="nam">timestamp</span><span class="op">(</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t223" href="#t223">223</a></span><span class="t"> <span class="nam">activities</span> <span class="op">=</span> <span class="nam">self</span><span class="op">.</span><span class="nam">client</span><span class="op">.</span><span class="nam">get\_activities</span><span class="op">(</span><span class="nam">after</span><span class="op">=</span><span class="nam">after</span><span class="op">,</span> <span class="nam">per\_page</span><span class="op">=</span><span class="nam">DEFAULT\_PER\_PAGE</span><span class="op">,</span> <span class="nam">limit</span><span class="op">=</span><span class="nam">max\_activities</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t224" href="#t224">224</a></span><span class="t"> <span class="key">return</span> <span class="nam">ActivityDAO</span><span class="op">.</span><span class="nam">upsert\_activities</span><span class="op">(</span><span class="nam">self</span><span class="op">.</span><span class="nam">session</span><span class="op">,</span> <span class="nam">self</span><span class="op">.</span><span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">activities</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t225" href="#t225">225</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t226" href="#t226">226</a></span><span class="t"> <span class="key">def</span> <span class="nam">ingest\_full\_history</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">lookback\_days</span><span class="op">=</span><span class="num">365</span><span class="op">,</span> <span class="nam">max\_activities</span><span class="op">=</span><span class="key">None</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t227" href="#t227">227</a></span><span class="t"> <span class="key">return</span> <span class="nam">self</span><span class="op">.</span><span class="nam">ingest\_recent</span><span class="op">(</span><span class="nam">lookback\_days</span><span class="op">,</span> <span class="nam">max\_activities</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t228" href="#t228">228</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t229" href="#t229">229</a></span><span class="t"> <span class="key">def</span> <span class="nam">ingest\_between</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">start\_date</span><span class="op">,</span> <span class="nam">end\_date</span><span class="op">,</span> <span class="nam">max\_activities</span><span class="op">=</span><span class="key">None</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t230" href="#t230">230</a></span><span class="t"> <span class="nam">after</span> <span class="op">=</span> <span class="nam">int</span><span class="op">(</span><span class="nam">start\_date</span><span class="op">.</span><span class="nam">timestamp</span><span class="op">(</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t231" href="#t231">231</a></span><span class="t"> <span class="nam">before</span> <span class="op">=</span> <span class="nam">int</span><span class="op">(</span><span class="nam">end\_date</span><span class="op">.</span><span class="nam">timestamp</span><span class="op">(</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t232" href="#t232">232</a></span><span class="t"> <span class="nam">activities</span> <span class="op">=</span> <span class="nam">self</span><span class="op">.</span><span class="nam">client</span><span class="op">.</span><span class="nam">get\_activities</span><span class="op">(</span><span class="nam">after</span><span class="op">=</span><span class="nam">after</span><span class="op">,</span> <span class="nam">before</span><span class="op">=</span><span class="nam">before</span><span class="op">,</span> <span class="nam">per\_page</span><span class="op">=</span><span class="nam">DEFAULT\_PER\_PAGE</span><span class="op">,</span> <span class="nam">limit</span><span class="op">=</span><span class="nam">max\_activities</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t233" href="#t233">233</a></span><span class="t"> <span class="key">return</span> <span class="nam">ActivityDAO</span><span class="op">.</span><span class="nam">upsert\_activities</span><span class="op">(</span><span class="nam">self</span><span class="op">.</span><span class="nam">session</span><span class="op">,</span> <span class="nam">self</span><span class="op">.</span><span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">activities</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t234" href="#t234">234</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t235" href="#t235">235</a></span><span class="t"><span class="key">def</span> <span class="nam">run\_enrichment\_batch</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">batch\_size</span><span class="op">=</span><span class="nam">DEFAULT\_BATCH\_SIZE</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t236" href="#t236">236</a></span><span class="t"> <span class="nam">activity\_ids</span> <span class="op">=</span> <span class="nam">get\_activities\_to\_enrich</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">batch\_size</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t237" href="#t237">237</a></span><span class="t"> <span class="key">for</span> <span class="nam">aid</span> <span class="key">in</span> <span class="nam">activity\_ids</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t238" href="#t238">238</a></span><span class="t"> <span class="nam">enrich\_one\_activity\_with\_refresh</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">aid</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_33ea1954bbe60e2e\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_33ea1954bbe60e2e\_ingestion\_orchestrator\_service\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 11:52 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_33ea1954bbe60e2e\_ingestion\_orchestrator\_service\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\services\ingestion\_orchestrator\_service.py: 74%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
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 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
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 <span class="text">Coverage for </span><b>src\services\ingestion\_orchestrator\_service.py</b>:  
 <span class="pc\_cov">74%</span>  
 </h1>  
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 </label>  
 <div id="help\_panel">  
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 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">50 statements &nbsp;</span>  
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 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">13<span class="text"> missing</span></button>  
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 </h2>  
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 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:53 -0500  
 </p>  
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 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
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 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
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 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">datetime</span> <span class="key">import</span> <span class="nam">datetime</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">dao</span><span class="op">.</span><span class="nam">activity\_dao</span> <span class="key">import</span> <span class="nam">ActivityDAO</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">logger</span> <span class="key">import</span> <span class="nam">get\_logger</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">services</span><span class="op">.</span><span class="nam">activity\_service</span> <span class="key">import</span> <span class="nam">ActivityIngestionService</span><span class="op">,</span> <span class="nam">enrich\_one\_activity\_with\_refresh</span><span class="op">,</span> <span class="nam">run\_enrichment\_batch</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">dao</span><span class="op">.</span><span class="nam">token\_dao</span> <span class="key">import</span> <span class="nam">get\_tokens\_sa</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">services</span><span class="op">.</span><span class="nam">token\_service</span> <span class="key">import</span> <span class="nam">get\_valid\_token</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"><span class="nam">logger</span> <span class="op">=</span> <span class="nam">get\_logger</span><span class="op">(</span><span class="nam">\_\_name\_\_</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="key">def</span> <span class="nam">run\_full\_ingestion\_and\_enrichment</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">lookback\_days</span><span class="op">=</span><span class="num">30</span><span class="op">,</span> <span class="nam">max\_activities</span><span class="op">=</span><span class="key">None</span><span class="op">,</span> <span class="nam">batch\_size</span><span class="op">=</span><span class="num">10</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#128640; Starting run\_full\_ingestion\_and\_enrichment for athlete {athlete\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"> <span class="nam">tokens</span> <span class="op">=</span> <span class="nam">get\_tokens\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">tokens</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="key">raise</span> <span class="nam">RuntimeError</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="str">f"No tokens found for athlete {athlete\_id}. "</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="str">"Please complete OAuth authorization first via /oauth/callback."</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="nam">access\_token</span> <span class="op">=</span> <span class="nam">get\_valid\_token</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#128994; Retrieved valid access token for athlete {athlete\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="nam">service</span> <span class="op">=</span> <span class="nam">ActivityIngestionService</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="nam">inserted</span> <span class="op">=</span> <span class="nam">service</span><span class="op">.</span><span class="nam">ingest\_full\_history</span><span class="op">(</span><span class="nam">lookback\_days</span><span class="op">=</span><span class="nam">lookback\_days</span><span class="op">,</span> <span class="nam">max\_activities</span><span class="op">=</span><span class="nam">max\_activities</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#9989; Synced {inserted} activities"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="nam">enriched</span> <span class="op">=</span> <span class="nam">run\_enrichment\_batch</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">batch\_size</span><span class="op">=</span><span class="nam">batch\_size</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#9989; Enriched {enriched} activities"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#127919; Ingestion + enrichment complete for athlete {athlete\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="key">return</span> <span class="op">{</span><span class="str">"inserted"</span><span class="op">:</span> <span class="nam">inserted</span><span class="op">,</span> <span class="str">"enriched"</span><span class="op">:</span> <span class="nam">enriched</span><span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"><span class="key">def</span> <span class="nam">ingest\_specific\_activity</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#9203; Ingesting specific activity {activity\_id} for athlete {athlete\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="nam">service</span> <span class="op">=</span> <span class="nam">ActivityIngestionService</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="com"># Get single activity details from Strava client</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="nam">activity\_data</span> <span class="op">=</span> <span class="nam">service</span><span class="op">.</span><span class="nam">client</span><span class="op">.</span><span class="nam">get\_activity</span><span class="op">(</span><span class="nam">activity\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">activity\_data</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">warning</span><span class="op">(</span><span class="str">f"Activity {activity\_id} not found for athlete {athlete\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="key">return</span> <span class="num">0</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="com"># Upsert activity using DAO</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="nam">ActivityDAO</span><span class="op">.</span><span class="nam">upsert\_activities</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="op">[</span><span class="nam">activity\_data</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#9989; Activity {activity\_id} upserted"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="com"># Enrich activity</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="nam">enrich\_one\_activity\_with\_refresh</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#9989; Activity {activity\_id} enriched"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="key">return</span> <span class="num">1</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"><span class="key">def</span> <span class="nam">ingest\_between\_dates</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">start\_date</span><span class="op">:</span> <span class="nam">datetime</span><span class="op">,</span> <span class="nam">end\_date</span><span class="op">:</span> <span class="nam">datetime</span><span class="op">,</span> <span class="nam">batch\_size</span><span class="op">=</span><span class="num">10</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#9203; Ingesting activities for athlete {athlete\_id} between {start\_date} and {end\_date}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t"> <span class="nam">service</span> <span class="op">=</span> <span class="nam">ActivityIngestionService</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="nam">activities</span> <span class="op">=</span> <span class="nam">service</span><span class="op">.</span><span class="nam">client</span><span class="op">.</span><span class="nam">get\_activities</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="nam">after</span><span class="op">=</span><span class="nam">int</span><span class="op">(</span><span class="nam">start\_date</span><span class="op">.</span><span class="nam">timestamp</span><span class="op">(</span><span class="op">)</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"> <span class="nam">before</span><span class="op">=</span><span class="nam">int</span><span class="op">(</span><span class="nam">end\_date</span><span class="op">.</span><span class="nam">timestamp</span><span class="op">(</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">activities</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">warning</span><span class="op">(</span><span class="str">f"No activities found between dates for athlete {athlete\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"> <span class="key">return</span> <span class="num">0</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t"> <span class="nam">ActivityDAO</span><span class="op">.</span><span class="nam">upsert\_activities</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">activities</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#9989; Upserted {len(activities)} activities"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"> <span class="com"># Enrich in batches for performance</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t"> <span class="nam">count</span> <span class="op">=</span> <span class="num">0</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"> <span class="key">for</span> <span class="nam">act</span> <span class="key">in</span> <span class="nam">activities</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t"> <span class="nam">enrich\_one\_activity\_with\_refresh</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">act</span><span class="op">[</span><span class="str">"id"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="nam">count</span> <span class="op">+=</span> <span class="num">1</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="key">if</span> <span class="nam">count</span> <span class="op">%</span> <span class="nam">batch\_size</span> <span class="op">==</span> <span class="num">0</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"Processed {count} activities for enrichment"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t75" href="#t75">75</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t76" href="#t76">76</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">f"&#9989; Enriched {count} activities"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t77" href="#t77">77</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t78" href="#t78">78</a></span><span class="t"> <span class="key">return</span> <span class="nam">count</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:53 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html

<!DOCTYPE html>  
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 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
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 <span class="pc\_cov">87%</span>  
 </h1>  
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 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
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 </p>  
 <p>  
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 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">70 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">61<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">9<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
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 <a id="prevFileLink" class="nav" href="z\_33ea1954bbe60e2e\_ingestion\_orchestrator\_service\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_33ea1954bbe60e2e\_token\_service\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:53 -0500  
 </p>  
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 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
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<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">import</span> <span class="nam">requests</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">import</span> <span class="nam">time</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">config</span> <span class="key">import</span> <span class="nam">STRAVA\_API\_BASE\_URL</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="key">class</span> <span class="nam">StravaClient</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"> <span class="key">def</span> <span class="nam">\_\_init\_\_</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">access\_token</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"> <span class="nam">self</span><span class="op">.</span><span class="nam">access\_token</span> <span class="op">=</span> <span class="nam">access\_token</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"> <span class="key">def</span> <span class="nam">\_request\_with\_backoff</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">method</span><span class="op">,</span> <span class="nam">url</span><span class="op">,</span> <span class="op">\*\*</span><span class="nam">kwargs</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"> <span class="nam">max\_retries</span> <span class="op">=</span> <span class="num">5</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"> <span class="nam">backoff</span> <span class="op">=</span> <span class="num">10</span> <span class="com"># Start with 10 sec backoff</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="key">for</span> <span class="nam">attempt</span> <span class="key">in</span> <span class="nam">range</span><span class="op">(</span><span class="nam">max\_retries</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="nam">response</span> <span class="op">=</span> <span class="nam">requests</span><span class="op">.</span><span class="nam">request</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="nam">method</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="nam">url</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="nam">headers</span><span class="op">=</span><span class="op">{</span><span class="str">"Authorization"</span><span class="op">:</span> <span class="str">f"Bearer {self.access\_token}"</span><span class="op">}</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"> <span class="op">\*\*</span><span class="nam">kwargs</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="key">if</span> <span class="nam">response</span><span class="op">.</span><span class="nam">status\_code</span> <span class="op">==</span> <span class="num">429</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#9888;&#65039; Rate limit hit (429). Backing off {backoff} seconds..."</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="nam">time</span><span class="op">.</span><span class="nam">sleep</span><span class="op">(</span><span class="nam">backoff</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="nam">backoff</span> <span class="op">\*=</span> <span class="num">2</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="key">continue</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">response</span><span class="op">.</span><span class="nam">raise\_for\_status</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="key">return</span> <span class="nam">response</span><span class="op">.</span><span class="nam">json</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="key">raise</span> <span class="nam">RuntimeError</span><span class="op">(</span><span class="str">"Exceeded max retries due to repeated 429 errors"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="key">def</span> <span class="nam">get\_activities</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">after</span><span class="op">=</span><span class="key">None</span><span class="op">,</span> <span class="nam">before</span><span class="op">=</span><span class="key">None</span><span class="op">,</span> <span class="nam">limit</span><span class="op">=</span><span class="key">None</span><span class="op">,</span> <span class="nam">per\_page</span><span class="op">=</span><span class="num">200</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="nam">url</span> <span class="op">=</span> <span class="str">f"{STRAVA\_API\_BASE\_URL}/athlete/activities"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="nam">all\_activities</span> <span class="op">=</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="nam">page</span> <span class="op">=</span> <span class="num">1</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="key">while</span> <span class="key">True</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="nam">params</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="str">"page"</span><span class="op">:</span> <span class="nam">page</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="str">"per\_page"</span><span class="op">:</span> <span class="nam">per\_page</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="key">if</span> <span class="nam">after</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"> <span class="nam">params</span><span class="op">[</span><span class="str">"after"</span><span class="op">]</span> <span class="op">=</span> <span class="nam">after</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="key">if</span> <span class="nam">before</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="nam">params</span><span class="op">[</span><span class="str">"before"</span><span class="op">]</span> <span class="op">=</span> <span class="nam">before</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="nam">batch</span> <span class="op">=</span> <span class="nam">self</span><span class="op">.</span><span class="nam">\_request\_with\_backoff</span><span class="op">(</span><span class="str">"GET"</span><span class="op">,</span> <span class="nam">url</span><span class="op">,</span> <span class="nam">params</span><span class="op">=</span><span class="nam">params</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">batch</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="key">break</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="nam">all\_activities</span><span class="op">.</span><span class="nam">extend</span><span class="op">(</span><span class="nam">batch</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t"> <span class="key">if</span> <span class="nam">limit</span> <span class="key">and</span> <span class="nam">len</span><span class="op">(</span><span class="nam">all\_activities</span><span class="op">)</span> <span class="op">>=</span> <span class="nam">limit</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="key">return</span> <span class="nam">all\_activities</span><span class="op">[</span><span class="op">:</span><span class="nam">limit</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"> <span class="nam">page</span> <span class="op">+=</span> <span class="num">1</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t"> <span class="key">return</span> <span class="nam">all\_activities</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"> <span class="key">def</span> <span class="nam">get\_activity</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"> <span class="nam">url</span> <span class="op">=</span> <span class="str">f"{STRAVA\_API\_BASE\_URL}/activities/{activity\_id}"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t"> <span class="key">return</span> <span class="nam">self</span><span class="op">.</span><span class="nam">\_request\_with\_backoff</span><span class="op">(</span><span class="str">"GET"</span><span class="op">,</span> <span class="nam">url</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t"> <span class="key">def</span> <span class="nam">get\_hr\_zones</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t"> <span class="nam">url</span> <span class="op">=</span> <span class="str">f"{STRAVA\_API\_BASE\_URL}/activities/{activity\_id}/zones"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t"> <span class="key">return</span> <span class="nam">self</span><span class="op">.</span><span class="nam">\_request\_with\_backoff</span><span class="op">(</span><span class="str">"GET"</span><span class="op">,</span> <span class="nam">url</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"> <span class="key">except</span> <span class="nam">requests</span><span class="op">.</span><span class="nam">exceptions</span><span class="op">.</span><span class="nam">HTTPError</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t"> <span class="key">if</span> <span class="nam">e</span><span class="op">.</span><span class="nam">response</span><span class="op">.</span><span class="nam">status\_code</span> <span class="op">==</span> <span class="num">404</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="key">return</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="key">raise</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t75" href="#t75">75</a></span><span class="t"> <span class="key">def</span> <span class="nam">get\_splits</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t76" href="#t76">76</a></span><span class="t"> <span class="nam">url</span> <span class="op">=</span> <span class="str">f"{STRAVA\_API\_BASE\_URL}/activities/{activity\_id}/laps"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t77" href="#t77">77</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t78" href="#t78">78</a></span><span class="t"> <span class="key">return</span> <span class="nam">self</span><span class="op">.</span><span class="nam">\_request\_with\_backoff</span><span class="op">(</span><span class="str">"GET"</span><span class="op">,</span> <span class="nam">url</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t79" href="#t79">79</a></span><span class="t"> <span class="key">except</span> <span class="nam">requests</span><span class="op">.</span><span class="nam">exceptions</span><span class="op">.</span><span class="nam">HTTPError</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t80" href="#t80">80</a></span><span class="t"> <span class="key">if</span> <span class="nam">e</span><span class="op">.</span><span class="nam">response</span><span class="op">.</span><span class="nam">status\_code</span> <span class="op">==</span> <span class="num">404</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t81" href="#t81">81</a></span><span class="t"> <span class="key">return</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t82" href="#t82">82</a></span><span class="t"> <span class="key">raise</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t83" href="#t83">83</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t84" href="#t84">84</a></span><span class="t"> <span class="key">def</span> <span class="nam">get\_streams</span><span class="op">(</span><span class="nam">self</span><span class="op">,</span> <span class="nam">activity\_id</span><span class="op">,</span> <span class="nam">keys</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t85" href="#t85">85</a></span><span class="t"> <span class="nam">url</span> <span class="op">=</span> <span class="str">f"{STRAVA\_API\_BASE\_URL}/activities/{activity\_id}/streams"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t86" href="#t86">86</a></span><span class="t"> <span class="nam">resp</span> <span class="op">=</span> <span class="nam">self</span><span class="op">.</span><span class="nam">\_request\_with\_backoff</span><span class="op">(</span><span class="str">"GET"</span><span class="op">,</span> <span class="nam">url</span><span class="op">,</span> <span class="nam">params</span><span class="op">=</span><span class="op">{</span><span class="str">"keys"</span><span class="op">:</span> <span class="str">","</span><span class="op">.</span><span class="nam">join</span><span class="op">(</span><span class="nam">keys</span><span class="op">)</span><span class="op">,</span> <span class="str">"key\_by\_type"</span><span class="op">:</span> <span class="str">"true"</span><span class="op">}</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t87" href="#t87">87</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t88" href="#t88">88</a></span><span class="t"> <span class="nam">streams</span> <span class="op">=</span> <span class="op">{</span><span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t89" href="#t89">89</a></span><span class="t"> <span class="key">for</span> <span class="nam">key</span> <span class="key">in</span> <span class="nam">keys</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t90" href="#t90">90</a></span><span class="t"> <span class="nam">raw</span> <span class="op">=</span> <span class="nam">resp</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="nam">key</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t91" href="#t91">91</a></span><span class="t"> <span class="key">if</span> <span class="nam">isinstance</span><span class="op">(</span><span class="nam">raw</span><span class="op">,</span> <span class="nam">dict</span><span class="op">)</span> <span class="key">and</span> <span class="str">"data"</span> <span class="key">in</span> <span class="nam">raw</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t92" href="#t92">92</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t93" href="#t93">93</a></span><span class="t"> <span class="nam">streams</span><span class="op">[</span><span class="nam">key</span><span class="op">]</span> <span class="op">=</span> <span class="op">[</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t94" href="#t94">94</a></span><span class="t"> <span class="nam">float</span><span class="op">(</span><span class="nam">x</span><span class="op">)</span> <span class="key">for</span> <span class="nam">x</span> <span class="key">in</span> <span class="nam">raw</span><span class="op">[</span><span class="str">"data"</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t95" href="#t95">95</a></span><span class="t"> <span class="key">if</span> <span class="nam">isinstance</span><span class="op">(</span><span class="nam">x</span><span class="op">,</span> <span class="op">(</span><span class="nam">int</span><span class="op">,</span> <span class="nam">float</span><span class="op">,</span> <span class="nam">str</span><span class="op">)</span><span class="op">)</span> <span class="key">and</span> <span class="nam">str</span><span class="op">(</span><span class="nam">x</span><span class="op">)</span><span class="op">.</span><span class="nam">replace</span><span class="op">(</span><span class="str">'.'</span><span class="op">,</span> <span class="str">''</span><span class="op">,</span> <span class="num">1</span><span class="op">)</span><span class="op">.</span><span class="nam">isdigit</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t96" href="#t96">96</a></span><span class="t"> <span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t97" href="#t97">97</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t98" href="#t98">98</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"Failed to convert stream {key}: {e}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t99" href="#t99">99</a></span><span class="t"> <span class="nam">streams</span><span class="op">[</span><span class="nam">key</span><span class="op">]</span> <span class="op">=</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t100" href="#t100">100</a></span><span class="t"> <span class="key">else</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t101" href="#t101">101</a></span><span class="t"> <span class="nam">streams</span><span class="op">[</span><span class="nam">key</span><span class="op">]</span> <span class="op">=</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t102" href="#t102">102</a></span><span class="t"> <span class="key">return</span> <span class="nam">streams</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_33ea1954bbe60e2e\_ingestion\_orchestrator\_service\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_33ea1954bbe60e2e\_token\_service\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:53 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_33ea1954bbe60e2e\_token\_service\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\services\token\_service.py: 96%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\services\token\_service.py</b>:  
 <span class="pc\_cov">96%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">97 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">93<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">4<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_6156a86a215061be\_\_\_init\_\_\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:53 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">import</span> <span class="nam">logging</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">import</span> <span class="nam">requests</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">import</span> <span class="nam">urllib</span><span class="op">.</span><span class="nam">parse</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">import</span> <span class="nam">jwt</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="key">from</span> <span class="nam">datetime</span> <span class="key">import</span> <span class="nam">datetime</span><span class="op">,</span> <span class="nam">timedelta</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="key">from</span> <span class="nam">flask</span> <span class="key">import</span> <span class="nam">current\_app</span><span class="op">,</span> <span class="nam">has\_app\_context</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"><span class="key">import</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">config</span> <span class="key">as</span> <span class="nam">config</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">dao</span><span class="op">.</span><span class="nam">token\_dao</span> <span class="key">import</span> <span class="nam">get\_tokens\_sa</span><span class="op">,</span> <span class="nam">insert\_token\_sa</span><span class="op">,</span> <span class="nam">delete\_tokens\_sa</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">db\_session</span> <span class="key">import</span> <span class="nam">get\_engine</span><span class="op">,</span> <span class="nam">get\_session</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">dao</span><span class="op">.</span><span class="nam">athlete\_dao</span> <span class="key">import</span> <span class="nam">insert\_athlete</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"><span class="nam">logger</span> <span class="op">=</span> <span class="nam">logging</span><span class="op">.</span><span class="nam">getLogger</span><span class="op">(</span><span class="nam">\_\_name\_\_</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"><span class="com"># ---------- Helpers ----------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"><span class="key">def</span> <span class="nam">is\_expired</span><span class="op">(</span><span class="nam">expires\_at</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"> <span class="key">return</span> <span class="nam">expires\_at</span> <span class="op">&lt;=</span> <span class="nam">int</span><span class="op">(</span><span class="nam">datetime</span><span class="op">.</span><span class="nam">utcnow</span><span class="op">(</span><span class="op">)</span><span class="op">.</span><span class="nam">timestamp</span><span class="op">(</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"><span class="key">def</span> <span class="nam">resolve\_db\_url</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="key">return</span> <span class="nam">config</span><span class="op">.</span><span class="nam">DATABASE\_URL</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"><span class="com"># ---------- Token Management ----------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"><span class="key">def</span> <span class="nam">get\_valid\_token</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">token\_data</span> <span class="op">=</span> <span class="nam">get\_tokens\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">token\_data</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="key">raise</span> <span class="nam">RuntimeError</span><span class="op">(</span><span class="str">f"No tokens found for athlete {athlete\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="key">if</span> <span class="nam">is\_expired</span><span class="op">(</span><span class="nam">token\_data</span><span class="op">[</span><span class="str">"expires\_at"</span><span class="op">]</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="nam">token\_data</span> <span class="op">=</span> <span class="nam">refresh\_access\_token</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="key">return</span> <span class="nam">token\_data</span><span class="op">[</span><span class="str">"access\_token"</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"><span class="key">def</span> <span class="nam">refresh\_access\_token</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="nam">token\_data</span> <span class="op">=</span> <span class="nam">get\_tokens\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">token\_data</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="key">raise</span> <span class="nam">RuntimeError</span><span class="op">(</span><span class="str">f"No refresh token available for athlete {athlete\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="nam">tokens</span> <span class="op">=</span> <span class="nam">refresh\_token\_static</span><span class="op">(</span><span class="nam">token\_data</span><span class="op">[</span><span class="str">"refresh\_token"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="nam">insert\_token\_sa</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="nam">session</span><span class="op">=</span><span class="nam">session</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="nam">athlete\_id</span><span class="op">=</span><span class="nam">athlete\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="nam">access\_token</span><span class="op">=</span><span class="nam">tokens</span><span class="op">[</span><span class="str">"access\_token"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="nam">refresh\_token</span><span class="op">=</span><span class="nam">tokens</span><span class="op">[</span><span class="str">"refresh\_token"</span><span class="op">]</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="nam">expires\_at</span><span class="op">=</span><span class="nam">tokens</span><span class="op">[</span><span class="str">"expires\_at"</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="key">return</span> <span class="nam">tokens</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t"><span class="key">def</span> <span class="nam">refresh\_token\_static</span><span class="op">(</span><span class="nam">refresh\_token</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">info</span><span class="op">(</span><span class="str">"Refreshing Strava token..."</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="nam">response</span> <span class="op">=</span> <span class="nam">requests</span><span class="op">.</span><span class="nam">post</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"> <span class="str">"https://www.strava.com/api/v3/oauth/token"</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"> <span class="nam">data</span><span class="op">=</span><span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t"> <span class="str">"client\_id"</span><span class="op">:</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_CLIENT\_ID</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"> <span class="str">"client\_secret"</span><span class="op">:</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_CLIENT\_SECRET</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"> <span class="str">"grant\_type"</span><span class="op">:</span> <span class="str">"refresh\_token"</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"> <span class="str">"refresh\_token"</span><span class="op">:</span> <span class="nam">refresh\_token</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t"> <span class="op">}</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">debug</span><span class="op">(</span><span class="str">f"Strava response: {response.status\_code} - {response.text}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t"> <span class="nam">response</span><span class="op">.</span><span class="nam">raise\_for\_status</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"> <span class="key">return</span> <span class="nam">response</span><span class="op">.</span><span class="nam">json</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"><span class="key">def</span> <span class="nam">exchange\_code\_for\_token</span><span class="op">(</span><span class="nam">code</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t"> <span class="nam">response</span> <span class="op">=</span> <span class="nam">requests</span><span class="op">.</span><span class="nam">post</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="str">"https://www.strava.com/api/v3/oauth/token"</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="nam">data</span><span class="op">=</span><span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t"> <span class="str">"client\_id"</span><span class="op">:</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_CLIENT\_ID</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t75" href="#t75">75</a></span><span class="t"> <span class="str">"client\_secret"</span><span class="op">:</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_CLIENT\_SECRET</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t76" href="#t76">76</a></span><span class="t"> <span class="str">"code"</span><span class="op">:</span> <span class="nam">code</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t77" href="#t77">77</a></span><span class="t"> <span class="str">"grant\_type"</span><span class="op">:</span> <span class="str">"authorization\_code"</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t78" href="#t78">78</a></span><span class="t"> <span class="str">"redirect\_uri"</span><span class="op">:</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_REDIRECT\_URI</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t79" href="#t79">79</a></span><span class="t"> <span class="op">}</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t80" href="#t80">80</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t81" href="#t81">81</a></span><span class="t"> <span class="nam">response</span><span class="op">.</span><span class="nam">raise\_for\_status</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t82" href="#t82">82</a></span><span class="t"> <span class="key">return</span> <span class="nam">response</span><span class="op">.</span><span class="nam">json</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t83" href="#t83">83</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t84" href="#t84">84</a></span><span class="t"><span class="key">def</span> <span class="nam">refresh\_token\_if\_expired</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t85" href="#t85">85</a></span><span class="t"> <span class="nam">token\_data</span> <span class="op">=</span> <span class="nam">get\_tokens\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t86" href="#t86">86</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">token\_data</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t87" href="#t87">87</a></span><span class="t"> <span class="key">raise</span> <span class="nam">ValueError</span><span class="op">(</span><span class="str">f"No tokens found for athlete {athlete\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t88" href="#t88">88</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t89" href="#t89">89</a></span><span class="t"> <span class="key">if</span> <span class="nam">is\_expired</span><span class="op">(</span><span class="nam">token\_data</span><span class="op">[</span><span class="str">"expires\_at"</span><span class="op">]</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t90" href="#t90">90</a></span><span class="t"> <span class="nam">refresh\_access\_token</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t91" href="#t91">91</a></span><span class="t"> <span class="key">return</span> <span class="key">True</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t92" href="#t92">92</a></span><span class="t"> <span class="key">return</span> <span class="key">False</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t93" href="#t93">93</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t94" href="#t94">94</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t95" href="#t95">95</a></span><span class="t"><span class="com"># ---------- Strava OAuth Routing ----------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t96" href="#t96">96</a></span><span class="t"><span class="key">def</span> <span class="nam">get\_authorization\_url</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t97" href="#t97">97</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_CLIENT\_ID</span> <span class="key">or</span> <span class="key">not</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_REDIRECT\_URI</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t98" href="#t98">98</a></span><span class="t"> <span class="key">raise</span> <span class="nam">ValueError</span><span class="op">(</span><span class="str">"Missing STRAVA\_CLIENT\_ID or STRAVA\_REDIRECT\_URI in environment"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t99" href="#t99">99</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t100" href="#t100">100</a></span><span class="t"> <span class="nam">params</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t101" href="#t101">101</a></span><span class="t"> <span class="str">"client\_id"</span><span class="op">:</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_CLIENT\_ID</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t102" href="#t102">102</a></span><span class="t"> <span class="str">"response\_type"</span><span class="op">:</span> <span class="str">"code"</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t103" href="#t103">103</a></span><span class="t"> <span class="str">"redirect\_uri"</span><span class="op">:</span> <span class="nam">config</span><span class="op">.</span><span class="nam">STRAVA\_REDIRECT\_URI</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t104" href="#t104">104</a></span><span class="t"> <span class="str">"approval\_prompt"</span><span class="op">:</span> <span class="str">"auto"</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t105" href="#t105">105</a></span><span class="t"> <span class="str">"scope"</span><span class="op">:</span> <span class="str">"read,activity:read\_all"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t106" href="#t106">106</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t107" href="#t107">107</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t108" href="#t108">108</a></span><span class="t"> <span class="key">return</span> <span class="str">f"https://www.strava.com/oauth/authorize?{urllib.parse.urlencode(params)}"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t109" href="#t109">109</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t110" href="#t110">110</a></span><span class="t"><span class="key">def</span> <span class="nam">store\_tokens\_from\_callback</span><span class="op">(</span><span class="nam">code</span><span class="op">,</span> <span class="nam">session</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t111" href="#t111">111</a></span><span class="t"> <span class="nam">token\_response</span> <span class="op">=</span> <span class="nam">exchange\_code\_for\_token</span><span class="op">(</span><span class="nam">code</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t112" href="#t112">112</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t113" href="#t113">113</a></span><span class="t"> <span class="nam">athlete\_info</span> <span class="op">=</span> <span class="nam">token\_response</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"athlete"</span><span class="op">,</span> <span class="op">{</span><span class="op">}</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t114" href="#t114">114</a></span><span class="t"> <span class="nam">athlete\_id</span> <span class="op">=</span> <span class="nam">athlete\_info</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"id"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t115" href="#t115">115</a></span><span class="t"> <span class="nam">access\_token</span> <span class="op">=</span> <span class="nam">token\_response</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"access\_token"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t116" href="#t116">116</a></span><span class="t"> <span class="nam">refresh\_token</span> <span class="op">=</span> <span class="nam">token\_response</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"refresh\_token"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t117" href="#t117">117</a></span><span class="t"> <span class="nam">expires\_at</span> <span class="op">=</span> <span class="nam">token\_response</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"expires\_at"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t118" href="#t118">118</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t119" href="#t119">119</a></span><span class="t"> <span class="nam">insert\_token\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">access\_token</span><span class="op">,</span> <span class="nam">refresh\_token</span><span class="op">,</span> <span class="nam">expires\_at</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t120" href="#t120">120</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t121" href="#t121">121</a></span><span class="t"> <span class="com"># &#128071; NEW: insert athlete into the athletes table</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t122" href="#t122">122</a></span><span class="t"> <span class="key">if</span> <span class="nam">athlete\_info</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t123" href="#t123">123</a></span><span class="t"> <span class="nam">insert\_athlete</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t124" href="#t124">124</a></span><span class="t"> <span class="nam">session</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t125" href="#t125">125</a></span><span class="t"> <span class="nam">strava\_athlete\_id</span><span class="op">=</span><span class="nam">athlete\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t126" href="#t126">126</a></span><span class="t"> <span class="nam">name</span><span class="op">=</span><span class="str">f"{athlete\_info.get('firstname', '')} {athlete\_info.get('lastname', '')}"</span><span class="op">.</span><span class="nam">strip</span><span class="op">(</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t127" href="#t127">127</a></span><span class="t"> <span class="nam">email</span><span class="op">=</span><span class="nam">athlete\_info</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"email"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t128" href="#t128">128</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t129" href="#t129">129</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t130" href="#t130">130</a></span><span class="t"> <span class="key">return</span> <span class="nam">athlete\_id</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t131" href="#t131">131</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t132" href="#t132">132</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t133" href="#t133">133</a></span><span class="t"><span class="com"># ---------- Admin Login / JWT ----------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t134" href="#t134">134</a></span><span class="t"><span class="key">def</span> <span class="nam">login\_user</span><span class="op">(</span><span class="nam">data</span><span class="op">:</span> <span class="nam">dict</span><span class="op">)</span> <span class="op">-></span> <span class="nam">tuple</span><span class="op">[</span><span class="nam">str</span><span class="op">,</span> <span class="nam">str</span><span class="op">]</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t135" href="#t135">135</a></span><span class="t"> <span class="nam">username</span> <span class="op">=</span> <span class="nam">data</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"username"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t136" href="#t136">136</a></span><span class="t"> <span class="nam">password</span> <span class="op">=</span> <span class="nam">data</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"password"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t137" href="#t137">137</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t138" href="#t138">138</a></span><span class="t"> <span class="key">if</span> <span class="nam">username</span> <span class="op">!=</span> <span class="nam">config</span><span class="op">.</span><span class="nam">ADMIN\_USER</span> <span class="key">or</span> <span class="nam">password</span> <span class="op">!=</span> <span class="nam">config</span><span class="op">.</span><span class="nam">ADMIN\_PASS</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t139" href="#t139">139</a></span><span class="t"> <span class="key">raise</span> <span class="nam">PermissionError</span><span class="op">(</span><span class="str">"Invalid credentials"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t140" href="#t140">140</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t141" href="#t141">141</a></span><span class="t"> <span class="nam">now</span> <span class="op">=</span> <span class="nam">datetime</span><span class="op">.</span><span class="nam">utcnow</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t142" href="#t142">142</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t143" href="#t143">143</a></span><span class="t"> <span class="nam">access\_payload</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t144" href="#t144">144</a></span><span class="t"> <span class="str">"sub"</span><span class="op">:</span> <span class="nam">username</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t145" href="#t145">145</a></span><span class="t"> <span class="str">"exp"</span><span class="op">:</span> <span class="nam">now</span> <span class="op">+</span> <span class="nam">timedelta</span><span class="op">(</span><span class="nam">seconds</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">ACCESS\_TOKEN\_EXP</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t146" href="#t146">146</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t147" href="#t147">147</a></span><span class="t"> <span class="nam">refresh\_payload</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t148" href="#t148">148</a></span><span class="t"> <span class="str">"sub"</span><span class="op">:</span> <span class="nam">username</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t149" href="#t149">149</a></span><span class="t"> <span class="str">"exp"</span><span class="op">:</span> <span class="nam">now</span> <span class="op">+</span> <span class="nam">timedelta</span><span class="op">(</span><span class="nam">seconds</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">REFRESH\_TOKEN\_EXP</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t150" href="#t150">150</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t151" href="#t151">151</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t152" href="#t152">152</a></span><span class="t"> <span class="nam">access\_token</span> <span class="op">=</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">encode</span><span class="op">(</span><span class="nam">access\_payload</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">SECRET\_KEY</span><span class="op">,</span> <span class="nam">algorithm</span><span class="op">=</span><span class="str">"HS256"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t153" href="#t153">153</a></span><span class="t"> <span class="nam">refresh\_token</span> <span class="op">=</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">encode</span><span class="op">(</span><span class="nam">refresh\_payload</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">SECRET\_KEY</span><span class="op">,</span> <span class="nam">algorithm</span><span class="op">=</span><span class="str">"HS256"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t154" href="#t154">154</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t155" href="#t155">155</a></span><span class="t"> <span class="nam">expires\_at</span> <span class="op">=</span> <span class="nam">int</span><span class="op">(</span><span class="nam">now</span><span class="op">.</span><span class="nam">timestamp</span><span class="op">(</span><span class="op">)</span><span class="op">)</span> <span class="op">+</span> <span class="nam">config</span><span class="op">.</span><span class="nam">REFRESH\_TOKEN\_EXP</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t156" href="#t156">156</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t157" href="#t157">157</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t158" href="#t158">158</a></span><span class="t"> <span class="nam">insert\_token\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">ADMIN\_ATHLETE\_ID</span><span class="op">,</span> <span class="nam">access\_token</span><span class="op">=</span><span class="nam">access\_token</span><span class="op">,</span> <span class="nam">refresh\_token</span><span class="op">=</span><span class="nam">refresh\_token</span><span class="op">,</span> <span class="nam">expires\_at</span><span class="op">=</span><span class="nam">expires\_at</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t159" href="#t159">159</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t160" href="#t160">160</a></span><span class="t"> <span class="key">return</span> <span class="nam">access\_token</span><span class="op">,</span> <span class="nam">refresh\_token</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t161" href="#t161">161</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t162" href="#t162">162</a></span><span class="t"><span class="key">def</span> <span class="nam">refresh\_token</span><span class="op">(</span><span class="nam">refresh\_token\_str</span><span class="op">:</span> <span class="nam">str</span><span class="op">)</span> <span class="op">-></span> <span class="nam">str</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t163" href="#t163">163</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t164" href="#t164">164</a></span><span class="t"> <span class="nam">payload</span> <span class="op">=</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">decode</span><span class="op">(</span><span class="nam">refresh\_token\_str</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">SECRET\_KEY</span><span class="op">,</span> <span class="nam">algorithms</span><span class="op">=</span><span class="op">[</span><span class="str">"HS256"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t165" href="#t165">165</a></span><span class="t"> <span class="key">except</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">ExpiredSignatureError</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t166" href="#t166">166</a></span><span class="t"> <span class="key">raise</span> <span class="nam">PermissionError</span><span class="op">(</span><span class="str">"Refresh token expired"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t167" href="#t167">167</a></span><span class="t"> <span class="key">except</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">InvalidTokenError</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t168" href="#t168">168</a></span><span class="t"> <span class="key">raise</span> <span class="nam">PermissionError</span><span class="op">(</span><span class="str">"Invalid refresh token"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t169" href="#t169">169</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t170" href="#t170">170</a></span><span class="t"> <span class="nam">username</span> <span class="op">=</span> <span class="nam">payload</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"sub"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t171" href="#t171">171</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t172" href="#t172">172</a></span><span class="t"> <span class="nam">tokens</span> <span class="op">=</span> <span class="nam">get\_tokens\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">ADMIN\_ATHLETE\_ID</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t173" href="#t173">173</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t174" href="#t174">174</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">tokens</span> <span class="key">or</span> <span class="nam">tokens</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"refresh\_token"</span><span class="op">)</span> <span class="op">!=</span> <span class="nam">refresh\_token\_str</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t175" href="#t175">175</a></span><span class="t"> <span class="key">raise</span> <span class="nam">PermissionError</span><span class="op">(</span><span class="str">"Refresh token not recognized"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t176" href="#t176">176</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t177" href="#t177">177</a></span><span class="t"> <span class="nam">now</span> <span class="op">=</span> <span class="nam">datetime</span><span class="op">.</span><span class="nam">utcnow</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t178" href="#t178">178</a></span><span class="t"> <span class="nam">new\_payload</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t179" href="#t179">179</a></span><span class="t"> <span class="str">"sub"</span><span class="op">:</span> <span class="nam">username</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t180" href="#t180">180</a></span><span class="t"> <span class="str">"exp"</span><span class="op">:</span> <span class="nam">now</span> <span class="op">+</span> <span class="nam">timedelta</span><span class="op">(</span><span class="nam">seconds</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">ACCESS\_TOKEN\_EXP</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t181" href="#t181">181</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t182" href="#t182">182</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t183" href="#t183">183</a></span><span class="t"> <span class="key">return</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">encode</span><span class="op">(</span><span class="nam">new\_payload</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">SECRET\_KEY</span><span class="op">,</span> <span class="nam">algorithm</span><span class="op">=</span><span class="str">"HS256"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t184" href="#t184">184</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t185" href="#t185">185</a></span><span class="t"><span class="key">def</span> <span class="nam">logout\_user</span><span class="op">(</span><span class="nam">refresh\_token\_str</span><span class="op">:</span> <span class="nam">str</span><span class="op">)</span> <span class="op">-></span> <span class="key">None</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t186" href="#t186">186</a></span><span class="t"> <span class="key">pass</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t187" href="#t187">187</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t188" href="#t188">188</a></span><span class="t"><span class="key">def</span> <span class="nam">delete\_athlete\_tokens</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t189" href="#t189">189</a></span><span class="t"> <span class="nam">delete\_tokens\_sa</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t190" href="#t190">190</a></span><span class="t"> <span class="key">return</span> <span class="key">True</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="z\_33ea1954bbe60e2e\_strava\_access\_service\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_6156a86a215061be\_\_\_init\_\_\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:53 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_6156a86a215061be\_\_\_init\_\_\_py.html

<!DOCTYPE html>  
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<head>  
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 <span class="pc\_cov">100%</span>  
 </h1>  
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 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
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 </label>  
 <div id="help\_panel">  
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 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
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 <span class="text">0 statements &nbsp;</span>  
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 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">0<span class="text"> missing</span></button>  
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 </h2>  
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 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_6156a86a215061be\_config\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
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 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
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</main>  
<footer>  
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 <p>  
 <a class="nav" href="z\_33ea1954bbe60e2e\_token\_service\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_6156a86a215061be\_config\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
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 </div>  
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</body>  
</html>

### 📄 htmlcov\z\_6156a86a215061be\_config\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\utils\config.py: 100%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\utils\config.py</b>:  
 <span class="pc\_cov">100%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">18 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">18<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">0<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_6156a86a215061be\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_6156a86a215061be\_conversions\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">import</span> <span class="nam">os</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">dotenv</span> <span class="key">import</span> <span class="nam">load\_dotenv</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="nam">load\_dotenv</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"><span class="com"># ----- OAuth / Strava -----</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"><span class="nam">STRAVA\_CLIENT\_ID</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"STRAVA\_CLIENT\_ID"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="nam">STRAVA\_CLIENT\_SECRET</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"STRAVA\_CLIENT\_SECRET"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"><span class="nam">STRAVA\_REDIRECT\_URI</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"STRAVA\_REDIRECT\_URI"</span><span class="op">)</span> <span class="key">or</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"REDIRECT\_URI"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"><span class="nam">STRAVA\_API\_BASE\_URL</span> <span class="op">=</span> <span class="str">"https://www.strava.com/api/v3"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"><span class="com"># ----- Token Expiry -----</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"><span class="nam">ACCESS\_TOKEN\_EXP</span> <span class="op">=</span> <span class="nam">int</span><span class="op">(</span><span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"ACCESS\_TOKEN\_EXP"</span><span class="op">,</span> <span class="num">900</span><span class="op">)</span><span class="op">)</span> <span class="com"># 15 min</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"><span class="nam">REFRESH\_TOKEN\_EXP</span> <span class="op">=</span> <span class="nam">int</span><span class="op">(</span><span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"REFRESH\_TOKEN\_EXP"</span><span class="op">,</span> <span class="num">604800</span><span class="op">)</span><span class="op">)</span> <span class="com"># 7 days</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"><span class="com"># ----- JWT / Auth -----</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"><span class="nam">SECRET\_KEY</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"SECRET\_KEY"</span><span class="op">,</span> <span class="str">"dev"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"><span class="nam">ADMIN\_USER</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"ADMIN\_USER"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"><span class="nam">ADMIN\_PASS</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"ADMIN\_PASS"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"><span class="nam">ADMIN\_ATHLETE\_ID</span> <span class="op">=</span> <span class="num">0</span> <span class="com"># Constant for system user</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"><span class="com"># ----- Database -----</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"><span class="nam">DATABASE\_URL</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"DATABASE\_URL"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"><span class="com"># ----- Internal API / Jobs -----</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"><span class="nam">CRON\_SECRET\_KEY</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"CRON\_SECRET\_KEY"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"><span class="nam">INTERNAL\_API\_KEY</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"INTERNAL\_API\_KEY"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"><span class="com"># ----- Misc -----</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"><span class="nam">PORT</span> <span class="op">=</span> <span class="nam">int</span><span class="op">(</span><span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"PORT"</span><span class="op">,</span> <span class="num">5000</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"><span class="nam">IS\_LOCAL</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"IS\_LOCAL"</span><span class="op">,</span> <span class="str">"false"</span><span class="op">)</span><span class="op">.</span><span class="nam">lower</span><span class="op">(</span><span class="op">)</span> <span class="op">==</span> <span class="str">"true"</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_6156a86a215061be\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_6156a86a215061be\_conversions\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_6156a86a215061be\_conversions\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\utils\conversions.py: 90%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\utils\conversions.py</b>:  
 <span class="pc\_cov">90%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">41 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">37<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">4<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_6156a86a215061be\_config\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_6156a86a215061be\_generate\_gpt\_handoff\_summary\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">def</span> <span class="nam">meters\_to\_miles</span><span class="op">(</span><span class="nam">meters</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"> <span class="key">return</span> <span class="nam">round</span><span class="op">(</span><span class="nam">meters</span> <span class="op">/</span> <span class="num">1609.344</span><span class="op">,</span> <span class="num">2</span><span class="op">)</span> <span class="key">if</span> <span class="nam">meters</span> <span class="key">is</span> <span class="key">not</span> <span class="key">None</span> <span class="key">else</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">def</span> <span class="nam">meters\_to\_feet</span><span class="op">(</span><span class="nam">meters</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"> <span class="key">return</span> <span class="nam">round</span><span class="op">(</span><span class="nam">meters</span> <span class="op">\*</span> <span class="num">3.28084</span><span class="op">,</span> <span class="num">1</span><span class="op">)</span> <span class="key">if</span> <span class="nam">meters</span> <span class="key">is</span> <span class="key">not</span> <span class="key">None</span> <span class="key">else</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="key">def</span> <span class="nam">mps\_to\_min\_per\_mile</span><span class="op">(</span><span class="nam">mps</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"> <span class="key">return</span> <span class="nam">round</span><span class="op">(</span><span class="num">26.8224</span> <span class="op">/</span> <span class="nam">mps</span><span class="op">,</span> <span class="num">2</span><span class="op">)</span> <span class="key">if</span> <span class="nam">mps</span> <span class="key">and</span> <span class="nam">mps</span> <span class="op">></span> <span class="num">0</span> <span class="key">else</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="key">def</span> <span class="nam">format\_seconds\_to\_hms</span><span class="op">(</span><span class="nam">seconds</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"> <span class="key">if</span> <span class="nam">seconds</span> <span class="key">is</span> <span class="key">None</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"> <span class="key">return</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="nam">seconds</span> <span class="op">=</span> <span class="nam">int</span><span class="op">(</span><span class="nam">seconds</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="key">except</span> <span class="op">(</span><span class="nam">ValueError</span><span class="op">,</span> <span class="nam">TypeError</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="key">return</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="nam">minutes</span><span class="op">,</span> <span class="nam">sec</span> <span class="op">=</span> <span class="nam">divmod</span><span class="op">(</span><span class="nam">seconds</span><span class="op">,</span> <span class="num">60</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="nam">hours</span><span class="op">,</span> <span class="nam">minutes</span> <span class="op">=</span> <span class="nam">divmod</span><span class="op">(</span><span class="nam">minutes</span><span class="op">,</span> <span class="num">60</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"> <span class="key">return</span> <span class="str">f"{hours}:{minutes:02}:{sec:02}"</span> <span class="key">if</span> <span class="nam">hours</span> <span class="op">></span> <span class="num">0</span> <span class="key">else</span> <span class="str">f"{minutes}:{sec:02}"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"><span class="key">def</span> <span class="nam">safe\_float</span><span class="op">(</span><span class="nam">val</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="key">return</span> <span class="nam">float</span><span class="op">(</span><span class="nam">val</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="key">except</span> <span class="op">(</span><span class="nam">ValueError</span><span class="op">,</span> <span class="nam">TypeError</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="key">return</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"><span class="key">def</span> <span class="nam">safe\_int</span><span class="op">(</span><span class="nam">val</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="key">return</span> <span class="nam">int</span><span class="op">(</span><span class="nam">val</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="key">except</span> <span class="op">(</span><span class="nam">ValueError</span><span class="op">,</span> <span class="nam">TypeError</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="key">return</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"><span class="key">def</span> <span class="nam">convert\_metrics</span><span class="op">(</span><span class="nam">data</span><span class="op">:</span> <span class="nam">dict</span><span class="op">,</span> <span class="nam">fields</span><span class="op">:</span> <span class="nam">list</span><span class="op">[</span><span class="nam">str</span><span class="op">]</span><span class="op">)</span> <span class="op">-></span> <span class="nam">dict</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="nam">conversions</span> <span class="op">=</span> <span class="op">{</span><span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="key">if</span> <span class="str">"distance"</span> <span class="key">in</span> <span class="nam">fields</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="nam">conversions</span><span class="op">[</span><span class="str">"conv\_distance"</span><span class="op">]</span> <span class="op">=</span> <span class="nam">meters\_to\_miles</span><span class="op">(</span><span class="nam">safe\_float</span><span class="op">(</span><span class="nam">data</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"distance"</span><span class="op">)</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="key">if</span> <span class="str">"elevation"</span> <span class="key">in</span> <span class="nam">fields</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="nam">conversions</span><span class="op">[</span><span class="str">"conv\_elevation\_feet"</span><span class="op">]</span> <span class="op">=</span> <span class="nam">meters\_to\_feet</span><span class="op">(</span><span class="nam">safe\_float</span><span class="op">(</span><span class="nam">data</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"elevation"</span><span class="op">)</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="key">if</span> <span class="str">"average\_speed"</span> <span class="key">in</span> <span class="nam">fields</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="nam">conversions</span><span class="op">[</span><span class="str">"conv\_avg\_speed"</span><span class="op">]</span> <span class="op">=</span> <span class="nam">mps\_to\_min\_per\_mile</span><span class="op">(</span><span class="nam">safe\_float</span><span class="op">(</span><span class="nam">data</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"average\_speed"</span><span class="op">)</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="key">if</span> <span class="str">"max\_speed"</span> <span class="key">in</span> <span class="nam">fields</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="nam">conversions</span><span class="op">[</span><span class="str">"conv\_max\_speed"</span><span class="op">]</span> <span class="op">=</span> <span class="nam">mps\_to\_min\_per\_mile</span><span class="op">(</span><span class="nam">safe\_float</span><span class="op">(</span><span class="nam">data</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"max\_speed"</span><span class="op">)</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="key">if</span> <span class="str">"moving\_time"</span> <span class="key">in</span> <span class="nam">fields</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"> <span class="nam">conversions</span><span class="op">[</span><span class="str">"conv\_moving\_time"</span><span class="op">]</span> <span class="op">=</span> <span class="nam">format\_seconds\_to\_hms</span><span class="op">(</span><span class="nam">safe\_int</span><span class="op">(</span><span class="nam">data</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"moving\_time"</span><span class="op">)</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="key">if</span> <span class="str">"elapsed\_time"</span> <span class="key">in</span> <span class="nam">fields</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="nam">conversions</span><span class="op">[</span><span class="str">"conv\_elapsed\_time"</span><span class="op">]</span> <span class="op">=</span> <span class="nam">format\_seconds\_to\_hms</span><span class="op">(</span><span class="nam">safe\_int</span><span class="op">(</span><span class="nam">data</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"elapsed\_time"</span><span class="op">)</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="key">return</span> <span class="nam">conversions</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_6156a86a215061be\_config\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_6156a86a215061be\_generate\_gpt\_handoff\_summary\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_6156a86a215061be\_generate\_gpt\_handoff\_summary\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\utils\generate\_gpt\_handoff\_summary.py: 0%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\utils\generate\_gpt\_handoff\_summary.py</b>:  
 <span class="pc\_cov">0%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">67 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">0<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">67<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_6156a86a215061be\_conversions\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_6156a86a215061be\_gpt\_ops\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="mis show\_mis"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">docx</span> <span class="key">import</span> <span class="nam">Document</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">from</span> <span class="nam">docx</span><span class="op">.</span><span class="nam">shared</span> <span class="key">import</span> <span class="nam">Pt</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="nam">OUTPUT\_DOCX</span> <span class="op">=</span> <span class="str">"SmartCoach\_GPT\_Handoff\_Summary\_CLEAN.docx"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="key">def</span> <span class="nam">add\_heading</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="nam">text</span><span class="op">,</span> <span class="nam">level</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"> <span class="nam">doc</span><span class="op">.</span><span class="nam">add\_heading</span><span class="op">(</span><span class="nam">text</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="nam">level</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"><span class="key">def</span> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="nam">text</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"> <span class="nam">doc</span><span class="op">.</span><span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">text</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"><span class="key">def</span> <span class="nam">generate\_gpt\_handoff\_summary</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"> <span class="nam">doc</span> <span class="op">=</span> <span class="nam">Document</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="nam">add\_heading</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#9989; SmartCoach &#8211; GPT Handoff Summary"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">1</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"This document was generated to bootstrap a Custom GPT session with complete project context."</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="com"># Last Known Good State</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"> <span class="nam">add\_heading</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#127937; Last known good state:"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">2</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Tag: v1.0.0"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Deployment: Railway (web-production-c4329.up.railway.app)"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; OAuth tested: &#9989;"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; DB Connected: &#9989;"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="com"># Environment</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="nam">add\_heading</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#128272; Environment Settings:"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">2</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; ADMIN\_USER=admin"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; REDIRECT\_URI=https://web-production-c4329.up.railway.app/oauth/callback"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; DATABASE\_URL=(set in Railway)"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; SECRET\_KEY, INTERNAL\_API\_KEY, CRON\_SECRET\_KEY defined"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="com"># Architecture</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="nam">add\_heading</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#128295; Architecture Notes:"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">2</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Flask API deployed on Railway"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; PostgreSQL managed via Railway plugin"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; JWT-based authentication and user sessions"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Strava OAuth 2.0 integration and webhook registration planned"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="com"># Coaching Intelligence Objective</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="nam">add\_heading</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#127919; Coaching Intelligence Objectives:"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">2</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Build personalized weekly training plans"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Track Strava-recorded performance"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Monitor deviations and adapt based on user behavior"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Support natural conversation for advising and adjusting"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="com"># System Components</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="nam">add\_heading</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#129521; System Components:"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">2</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Custom GPT logic: planning, feedback, and conversation"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; PostgreSQL DB storing plan and activity data"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Strava Sync service"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; Planned: Training plan generator, weekly comparator"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="com"># Known Issues</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="nam">add\_heading</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#9888;&#65039; Known Issues:"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">2</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#8226; None at last deploy. Strava activity fetch untested."</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="com"># Tasks</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"> <span class="nam">add\_heading</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#128204; Next Tasks:"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">2</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"1. Test full Strava flow: code -> token -> activity fetch"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"2. Implement auto-sync"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"3. Add athlete-to-user ID mapping"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"4. Connect activity analysis"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"5. Ship Phase 2 readiness"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t"> <span class="com"># GPT Boot Prompt</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t"> <span class="nam">add\_heading</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"&#129504; GPT Boot Prompt"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">2</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"Create a Custom GPT with the following context:"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"- Name: SmartCoachDev"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"- Role: Flask engineer + PM for Smart Marathon Coach API"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"- Accesses: JWT auth, Strava OAuth, Railway deploy logs, pg DB"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"- Code base starts in: /src, /templates, /scripts"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"- Current live env: https://web-production-c4329.up.railway.app"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"- Start by reviewing recent work, then continue with task #1: Test full Strava activity flow."</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t"> <span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"- Reference: &#8216;Smart Coach - Project Reference.docx&#8217; for architecture, history, and schema."</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t75" href="#t75">75</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t76" href="#t76">76</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t77" href="#t77">77</a></span><span class="t"> <span class="key">from</span> <span class="nam">docx</span> <span class="key">import</span> <span class="nam">Document</span> <span class="key">as</span> <span class="nam">DocxDocument</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t78" href="#t78">78</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t79" href="#t79">79</a></span><span class="t"> <span class="key">def</span> <span class="nam">append\_docx\_content</span><span class="op">(</span><span class="nam">target\_doc</span><span class="op">,</span> <span class="nam">source\_path</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t80" href="#t80">80</a></span><span class="t"> <span class="nam">source\_doc</span> <span class="op">=</span> <span class="nam">DocxDocument</span><span class="op">(</span><span class="nam">source\_path</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t81" href="#t81">81</a></span><span class="t"> <span class="key">for</span> <span class="nam">element</span> <span class="key">in</span> <span class="nam">source\_doc</span><span class="op">.</span><span class="nam">element</span><span class="op">.</span><span class="nam">body</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t82" href="#t82">82</a></span><span class="t"> <span class="nam">target\_doc</span><span class="op">.</span><span class="nam">element</span><span class="op">.</span><span class="nam">body</span><span class="op">.</span><span class="nam">append</span><span class="op">(</span><span class="nam">element</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t83" href="#t83">83</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t84" href="#t84">84</a></span><span class="t"> <span class="com"># At the end of generate\_gpt\_handoff\_summary():</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t85" href="#t85">85</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t86" href="#t86">86</a></span><span class="t"> <span class="nam">append\_docx\_content</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="str">"final\_project\_map.docx"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t87" href="#t87">87</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">"&#9989; Appended folder/code map from final\_project\_map.docx"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t88" href="#t88">88</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t89" href="#t89">89</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#9888;&#65039; Could not append code map: {e}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t90" href="#t90">90</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t91" href="#t91">91</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t92" href="#t92">92</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
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 <p class="pln"><span class="n"><a id="t94" href="#t94">94</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t95" href="#t95">95</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t96" href="#t96">96</a></span><span class="t"> <span class="nam">doc</span><span class="op">.</span><span class="nam">save</span><span class="op">(</span><span class="nam">OUTPUT\_DOCX</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t97" href="#t97">97</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#9989; Summary written to {OUTPUT\_DOCX}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t98" href="#t98">98</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t99" href="#t99">99</a></span><span class="t"><span class="key">if</span> <span class="nam">\_\_name\_\_</span> <span class="op">==</span> <span class="str">"\_\_main\_\_"</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t100" href="#t100">100</a></span><span class="t"> <span class="nam">generate\_gpt\_handoff\_summary</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="z\_6156a86a215061be\_gpt\_ops\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
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### 📄 htmlcov\z\_6156a86a215061be\_gpt\_ops\_py.html

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 <span class="pc\_cov">0%</span>  
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 &nbsp; toggle line displays  
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 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
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 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
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 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
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 <span class="text">37 statements &nbsp;</span>  
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 <a id="nextFileLink" class="nav" href="z\_6156a86a215061be\_jwt\_utils\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
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 created at 2025-06-20 09:34 -0500  
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 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
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 </div>  
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 <p class="pln"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="com"># src/utils/gpt\_ops.py</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">import</span> <span class="nam">os</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">from</span> <span class="nam">flask</span> <span class="key">import</span> <span class="nam">Flask</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">base\_model</span> <span class="key">import</span> <span class="nam">get\_session</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">dao</span><span class="op">.</span><span class="nam">task\_dao</span> <span class="key">import</span> <span class="nam">create\_task</span><span class="op">,</span> <span class="nam">update\_task\_status</span><span class="op">,</span> <span class="nam">delete\_task</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"><span class="com"># Optional: load app context if needed</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="key">def</span> <span class="nam">init\_flask\_context</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"> <span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">app</span> <span class="key">import</span> <span class="nam">create\_app</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"> <span class="nam">app</span> <span class="op">=</span> <span class="nam">create\_app</span><span class="op">(</span><span class="op">{</span><span class="str">"TESTING"</span><span class="op">:</span> <span class="key">True</span><span class="op">}</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"> <span class="nam">ctx</span> <span class="op">=</span> <span class="nam">app</span><span class="op">.</span><span class="nam">app\_context</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="nam">ctx</span><span class="op">.</span><span class="nam">push</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"><span class="com"># Check if GPT is allowed to modify DB</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"><span class="key">if</span> <span class="nam">os</span><span class="op">.</span><span class="nam">getenv</span><span class="op">(</span><span class="str">"GPT\_CAN\_MUTATE\_DB"</span><span class="op">,</span> <span class="str">"false"</span><span class="op">)</span><span class="op">.</span><span class="nam">lower</span><span class="op">(</span><span class="op">)</span> <span class="op">==</span> <span class="str">"true"</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="nam">init\_flask\_context</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"><span class="key">else</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="key">raise</span> <span class="nam">RuntimeError</span><span class="op">(</span><span class="str">"GPT task creation is disabled by config. Set GPT\_CAN\_MUTATE\_DB=true in your .env."</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"><span class="key">def</span> <span class="nam">create\_task\_from\_gpt</span><span class="op">(</span><span class="nam">title</span><span class="op">,</span> <span class="nam">user\_id</span><span class="op">=</span><span class="num">1</span><span class="op">,</span> <span class="nam">status</span><span class="op">=</span><span class="str">"pending"</span><span class="op">,</span> <span class="nam">milestone</span><span class="op">=</span><span class="key">None</span><span class="op">,</span> <span class="nam">labels</span><span class="op">=</span><span class="key">None</span><span class="op">,</span> <span class="nam">is\_icebox</span><span class="op">=</span><span class="key">False</span><span class="op">,</span> <span class="nam">details</span><span class="op">=</span><span class="key">None</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="nam">task\_id</span> <span class="op">=</span> <span class="nam">create\_task</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="nam">session</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">user\_id</span><span class="op">=</span><span class="nam">user\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">title</span><span class="op">=</span><span class="nam">title</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="nam">status</span><span class="op">=</span><span class="nam">status</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="nam">milestone</span><span class="op">=</span><span class="nam">milestone</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="nam">labels</span><span class="op">=</span><span class="nam">labels</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="nam">is\_icebox</span><span class="op">=</span><span class="nam">is\_icebox</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="nam">details</span><span class="op">=</span><span class="nam">details</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#9989; GPT created task #{task\_id}: {title}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="key">return</span> <span class="nam">task\_id</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#10060; GPT failed to create task: {e}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"><span class="key">def</span> <span class="nam">update\_task\_status\_from\_gpt</span><span class="op">(</span><span class="nam">task\_id</span><span class="op">,</span> <span class="nam">status</span><span class="op">=</span><span class="key">None</span><span class="op">,</span> <span class="nam">labels</span><span class="op">=</span><span class="key">None</span><span class="op">,</span> <span class="nam">is\_icebox</span><span class="op">=</span><span class="key">None</span><span class="op">,</span> <span class="nam">details</span><span class="op">=</span><span class="key">None</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="nam">update\_task\_status</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="nam">session</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="nam">task\_id</span><span class="op">=</span><span class="nam">task\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="nam">status</span><span class="op">=</span><span class="nam">status</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="nam">labels</span><span class="op">=</span><span class="nam">labels</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t"> <span class="nam">is\_icebox</span><span class="op">=</span><span class="nam">is\_icebox</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="nam">details</span><span class="op">=</span><span class="nam">details</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#9989; GPT updated task #{task\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#10060; GPT failed to update task #{task\_id}: {e}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"><span class="key">def</span> <span class="nam">delete\_task\_by\_id\_from\_gpt</span><span class="op">(</span><span class="nam">task\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t"> <span class="nam">delete\_task</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">task\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#128465;&#65039; GPT deleted task #{task\_id}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#10060; GPT failed to delete task #{task\_id}: {e}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="z\_6156a86a215061be\_jwt\_utils\_py.html">&#xbb; next</a>  
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### 📄 htmlcov\z\_6156a86a215061be\_jwt\_utils\_py.html

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 <span class="pc\_cov">97%</span>  
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 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
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 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
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 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
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 <kbd>?</kbd> &nbsp; show/hide this help  
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 <a id="nextFileLink" class="nav" href="z\_6156a86a215061be\_logger\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
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 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
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 </div>  
</header>  
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 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">import</span> <span class="nam">jwt</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">from</span> <span class="nam">functools</span> <span class="key">import</span> <span class="nam">wraps</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">flask</span> <span class="key">import</span> <span class="nam">request</span><span class="op">,</span> <span class="nam">jsonify</span><span class="op">,</span> <span class="nam">current\_app</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="key">import</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">config</span> <span class="key">as</span> <span class="nam">config</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"><span class="key">def</span> <span class="nam">require\_auth</span><span class="op">(</span><span class="nam">f</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"> <span class="op">@</span><span class="nam">wraps</span><span class="op">(</span><span class="nam">f</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"> <span class="key">def</span> <span class="nam">decorated</span><span class="op">(</span><span class="op">\*</span><span class="nam">args</span><span class="op">,</span> <span class="op">\*\*</span><span class="nam">kwargs</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"> <span class="com"># &#9989; Internal service key override</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"> <span class="nam">internal\_key</span> <span class="op">=</span> <span class="nam">request</span><span class="op">.</span><span class="nam">headers</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"X-Internal-Key"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="key">if</span> <span class="nam">internal\_key</span> <span class="key">and</span> <span class="nam">config</span><span class="op">.</span><span class="nam">INTERNAL\_API\_KEY</span> <span class="key">and</span> <span class="nam">internal\_key</span> <span class="op">==</span> <span class="nam">config</span><span class="op">.</span><span class="nam">INTERNAL\_API\_KEY</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="nam">request</span><span class="op">.</span><span class="nam">user</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="str">"user\_id"</span><span class="op">:</span> <span class="str">"internal"</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="str">"is\_internal"</span><span class="op">:</span> <span class="key">True</span> <span class="com"># &#9989; Enable admin privileges</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"> <span class="key">return</span> <span class="nam">f</span><span class="op">(</span><span class="op">\*</span><span class="nam">args</span><span class="op">,</span> <span class="op">\*\*</span><span class="nam">kwargs</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"> <span class="com"># &#128272; Fallback to regular Bearer token auth</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="nam">auth\_header</span> <span class="op">=</span> <span class="nam">request</span><span class="op">.</span><span class="nam">headers</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"Authorization"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">auth\_header</span> <span class="key">or</span> <span class="key">not</span> <span class="nam">auth\_header</span><span class="op">.</span><span class="nam">lower</span><span class="op">(</span><span class="op">)</span><span class="op">.</span><span class="nam">startswith</span><span class="op">(</span><span class="str">"bearer "</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">"Authorization header missing"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">401</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="nam">token</span> <span class="op">=</span> <span class="nam">auth\_header</span><span class="op">.</span><span class="nam">split</span><span class="op">(</span><span class="str">" "</span><span class="op">)</span><span class="op">[</span><span class="num">1</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">payload</span> <span class="op">=</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">decode</span><span class="op">(</span><span class="nam">token</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">SECRET\_KEY</span><span class="op">,</span> <span class="nam">algorithms</span><span class="op">=</span><span class="op">[</span><span class="str">"HS256"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">user\_id</span> <span class="op">=</span> <span class="nam">payload</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"sub"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">user\_id</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">"Token missing subject (sub)"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">401</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="nam">request</span><span class="op">.</span><span class="nam">user</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="str">"user\_id"</span><span class="op">:</span> <span class="nam">user\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="str">"is\_internal"</span><span class="op">:</span> <span class="nam">user\_id</span> <span class="op">==</span> <span class="str">"internal"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="key">except</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">ExpiredSignatureError</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">"Token expired"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">401</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="key">except</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">InvalidTokenError</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">"Invalid token"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">401</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="key">return</span> <span class="nam">f</span><span class="op">(</span><span class="op">\*</span><span class="nam">args</span><span class="op">,</span> <span class="op">\*\*</span><span class="nam">kwargs</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="key">return</span> <span class="nam">decorated</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"><span class="key">def</span> <span class="nam">decode\_token</span><span class="op">(</span><span class="nam">token</span><span class="op">:</span> <span class="nam">str</span><span class="op">)</span> <span class="op">-></span> <span class="nam">dict</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="str">"""Decode JWT without expiration check (for internal inspection)."""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="key">return</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">decode</span><span class="op">(</span><span class="nam">token</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">SECRET\_KEY</span><span class="op">,</span> <span class="nam">algorithms</span><span class="op">=</span><span class="op">[</span><span class="str">"HS256"</span><span class="op">]</span><span class="op">,</span> <span class="nam">options</span><span class="op">=</span><span class="op">{</span><span class="str">"verify\_exp"</span><span class="op">:</span> <span class="key">False</span><span class="op">}</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="key">except</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">DecodeError</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="key">raise</span> <span class="nam">ValueError</span><span class="op">(</span><span class="str">"Invalid token format"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_6156a86a215061be\_logger\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 12:00 -0500  
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 </div>  
</footer>  
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### 📄 htmlcov\z\_6156a86a215061be\_logger\_py.html

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 <span class="pc\_cov">100%</span>  
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 &nbsp; toggle line displays  
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 &nbsp; next/prev highlighted chunk  
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 <kbd>u</kbd> &nbsp; up to the index  
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 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
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 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
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 </div>  
</header>  
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 <p class="pln"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">def</span> <span class="nam">get\_logger</span><span class="op">(</span><span class="nam">name</span><span class="op">=</span><span class="nam">\_\_name\_\_</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"> <span class="nam">logging</span><span class="op">.</span><span class="nam">basicConfig</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"> <span class="nam">level</span><span class="op">=</span><span class="nam">logging</span><span class="op">.</span><span class="nam">INFO</span><span class="op">,</span> <span class="nam">format</span><span class="op">=</span><span class="str">"%(asctime)s %(levelname)s %(message)s"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"> <span class="key">return</span> <span class="nam">logging</span><span class="op">.</span><span class="nam">getLogger</span><span class="op">(</span><span class="nam">name</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_6156a86a215061be\_jwt\_utils\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_6156a86a215061be\_map\_and\_extract\_Railway\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\utils\map\_and\_extract\_Railway.py: 0%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\utils\map\_and\_extract\_Railway.py</b>:  
 <span class="pc\_cov">0%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">89 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">0<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">89<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_6156a86a215061be\_logger\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="index.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="mis show\_mis"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">import</span> <span class="nam">os</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">from</span> <span class="nam">docx</span> <span class="key">import</span> <span class="nam">Document</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">docx</span><span class="op">.</span><span class="nam">shared</span> <span class="key">import</span> <span class="nam">Pt</span><span class="op">,</span> <span class="nam">RGBColor</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">from</span> <span class="nam">docx</span><span class="op">.</span><span class="nam">oxml</span><span class="op">.</span><span class="nam">ns</span> <span class="key">import</span> <span class="nam">qn</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="nam">ROOT\_DIR</span> <span class="op">=</span> <span class="str">r"C:\Users\andre\projects\railway-pg-test"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="nam">OUTPUT\_DOCX</span> <span class="op">=</span> <span class="str">"final\_project\_map.docx"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"><span class="nam">EXCLUDE\_DIRS</span> <span class="op">=</span> <span class="op">{</span><span class="str">'venv'</span><span class="op">,</span> <span class="str">'\_\_pycache\_\_'</span><span class="op">,</span> <span class="str">'.git'</span><span class="op">,</span> <span class="str">'.mypy\_cache'</span><span class="op">,</span> <span class="str">'.pytest\_cache'</span><span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="nam">EXCLUDE\_SUFFIXES</span> <span class="op">=</span> <span class="op">{</span><span class="str">'.dist-info'</span><span class="op">,</span> <span class="str">'.egg-info'</span><span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"><span class="nam">EXCLUDE\_FILES</span> <span class="op">=</span> <span class="op">{</span><span class="str">'.env'</span><span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"><span class="nam">INCLUDE\_EXTENSIONS</span> <span class="op">=</span> <span class="op">{</span><span class="str">'.py'</span><span class="op">,</span> <span class="str">'.md'</span><span class="op">,</span> <span class="str">'.txt'</span><span class="op">,</span> <span class="str">'.html'</span><span class="op">,</span> <span class="str">'.css'</span><span class="op">,</span> <span class="str">'.js'</span><span class="op">}</span> <span class="com"># Excludes JSON</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"><span class="key">def</span> <span class="nam">should\_exclude\_dir</span><span class="op">(</span><span class="nam">name</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="key">return</span> <span class="nam">name</span> <span class="key">in</span> <span class="nam">EXCLUDE\_DIRS</span> <span class="key">or</span> <span class="nam">any</span><span class="op">(</span><span class="nam">name</span><span class="op">.</span><span class="nam">endswith</span><span class="op">(</span><span class="nam">suffix</span><span class="op">)</span> <span class="key">for</span> <span class="nam">suffix</span> <span class="key">in</span> <span class="nam">EXCLUDE\_SUFFIXES</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"><span class="key">def</span> <span class="nam">should\_include\_file</span><span class="op">(</span><span class="nam">entry</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="nam">ext</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">path</span><span class="op">.</span><span class="nam">splitext</span><span class="op">(</span><span class="nam">entry</span><span class="op">)</span><span class="op">[</span><span class="num">1</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"> <span class="key">return</span> <span class="nam">ext</span> <span class="key">in</span> <span class="nam">INCLUDE\_EXTENSIONS</span> <span class="key">and</span> <span class="nam">entry</span> <span class="key">not</span> <span class="key">in</span> <span class="nam">EXCLUDE\_FILES</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"><span class="key">def</span> <span class="nam">icon\_for</span><span class="op">(</span><span class="nam">entry</span><span class="op">,</span> <span class="nam">is\_dir</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="key">if</span> <span class="nam">is\_dir</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="key">return</span> <span class="str">"&#128193;"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="key">elif</span> <span class="nam">entry</span><span class="op">.</span><span class="nam">endswith</span><span class="op">(</span><span class="str">".py"</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="key">return</span> <span class="str">"&#128013;"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="key">else</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="key">return</span> <span class="str">"&#128196;"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"><span class="key">def</span> <span class="nam">read\_file\_content</span><span class="op">(</span><span class="nam">filepath</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="key">with</span> <span class="nam">open</span><span class="op">(</span><span class="nam">filepath</span><span class="op">,</span> <span class="str">"r"</span><span class="op">,</span> <span class="nam">encoding</span><span class="op">=</span><span class="str">"utf-8"</span><span class="op">)</span> <span class="key">as</span> <span class="nam">f</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="key">return</span> <span class="nam">f</span><span class="op">.</span><span class="nam">readlines</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="key">except</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="key">return</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"><span class="key">def</span> <span class="nam">add\_code\_block</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="nam">lines</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="nam">para</span> <span class="op">=</span> <span class="nam">doc</span><span class="op">.</span><span class="nam">add\_paragraph</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="nam">para</span><span class="op">.</span><span class="nam">paragraph\_format</span><span class="op">.</span><span class="nam">line\_spacing</span> <span class="op">=</span> <span class="num">1.0</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="nam">para</span><span class="op">.</span><span class="nam">paragraph\_format</span><span class="op">.</span><span class="nam">space\_before</span> <span class="op">=</span> <span class="nam">Pt</span><span class="op">(</span><span class="num">0</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="nam">para</span><span class="op">.</span><span class="nam">paragraph\_format</span><span class="op">.</span><span class="nam">space\_after</span> <span class="op">=</span> <span class="nam">Pt</span><span class="op">(</span><span class="num">0</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="key">for</span> <span class="nam">i</span><span class="op">,</span> <span class="nam">line</span> <span class="key">in</span> <span class="nam">enumerate</span><span class="op">(</span><span class="nam">lines</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="nam">run</span> <span class="op">=</span> <span class="nam">para</span><span class="op">.</span><span class="nam">add\_run</span><span class="op">(</span><span class="nam">line</span> <span class="key">if</span> <span class="nam">line</span><span class="op">.</span><span class="nam">endswith</span><span class="op">(</span><span class="str">'\n'</span><span class="op">)</span> <span class="key">else</span> <span class="nam">line</span> <span class="op">+</span> <span class="str">'\n'</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"> <span class="nam">run</span><span class="op">.</span><span class="nam">font</span><span class="op">.</span><span class="nam">name</span> <span class="op">=</span> <span class="str">'Consolas'</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="nam">run</span><span class="op">.</span><span class="nam">font</span><span class="op">.</span><span class="nam">size</span> <span class="op">=</span> <span class="nam">Pt</span><span class="op">(</span><span class="num">9</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="nam">run</span><span class="op">.</span><span class="nam">font</span><span class="op">.</span><span class="nam">color</span><span class="op">.</span><span class="nam">rgb</span> <span class="op">=</span> <span class="nam">RGBColor</span><span class="op">(</span><span class="num">51</span><span class="op">,</span> <span class="num">51</span><span class="op">,</span> <span class="num">51</span><span class="op">)</span> <span class="com"># #333333</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="nam">run</span><span class="op">.</span><span class="nam">\_element</span><span class="op">.</span><span class="nam">rPr</span><span class="op">.</span><span class="nam">rFonts</span><span class="op">.</span><span class="nam">set</span><span class="op">(</span><span class="nam">qn</span><span class="op">(</span><span class="str">'w:eastAsia'</span><span class="op">)</span><span class="op">,</span> <span class="str">'Consolas'</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"><span class="key">def</span> <span class="nam">apply\_folder\_style</span><span class="op">(</span><span class="nam">paragraph</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">paragraph</span><span class="op">.</span><span class="nam">runs</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="key">return</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t"> <span class="nam">run</span> <span class="op">=</span> <span class="nam">paragraph</span><span class="op">.</span><span class="nam">runs</span><span class="op">[</span><span class="num">0</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="nam">run</span><span class="op">.</span><span class="nam">font</span><span class="op">.</span><span class="nam">name</span> <span class="op">=</span> <span class="str">'Consolas'</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="nam">run</span><span class="op">.</span><span class="nam">font</span><span class="op">.</span><span class="nam">size</span> <span class="op">=</span> <span class="nam">Pt</span><span class="op">(</span><span class="num">9</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t"> <span class="nam">run</span><span class="op">.</span><span class="nam">font</span><span class="op">.</span><span class="nam">color</span><span class="op">.</span><span class="nam">rgb</span> <span class="op">=</span> <span class="nam">RGBColor</span><span class="op">(</span><span class="num">51</span><span class="op">,</span> <span class="num">51</span><span class="op">,</span> <span class="num">51</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="nam">run</span><span class="op">.</span><span class="nam">\_element</span><span class="op">.</span><span class="nam">rPr</span><span class="op">.</span><span class="nam">rFonts</span><span class="op">.</span><span class="nam">set</span><span class="op">(</span><span class="nam">qn</span><span class="op">(</span><span class="str">'w:eastAsia'</span><span class="op">)</span><span class="op">,</span> <span class="str">'Consolas'</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="nam">paragraph</span><span class="op">.</span><span class="nam">paragraph\_format</span><span class="op">.</span><span class="nam">space\_before</span> <span class="op">=</span> <span class="nam">Pt</span><span class="op">(</span><span class="num">0</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"> <span class="nam">paragraph</span><span class="op">.</span><span class="nam">paragraph\_format</span><span class="op">.</span><span class="nam">space\_after</span> <span class="op">=</span> <span class="nam">Pt</span><span class="op">(</span><span class="num">0</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"> <span class="nam">paragraph</span><span class="op">.</span><span class="nam">paragraph\_format</span><span class="op">.</span><span class="nam">line\_spacing</span> <span class="op">=</span> <span class="num">1.0</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"><span class="key">def</span> <span class="nam">write\_project\_map</span><span class="op">(</span><span class="nam">root\_dir</span><span class="op">,</span> <span class="nam">output\_docx</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"> <span class="nam">doc</span> <span class="op">=</span> <span class="nam">Document</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"> <span class="nam">doc</span><span class="op">.</span><span class="nam">add\_heading</span><span class="op">(</span><span class="str">"&#128193; Folder &amp; File Structure"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">1</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t"> <span class="nam">folder\_map\_lines</span> <span class="op">=</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t"> <span class="nam">code\_blocks</span> <span class="op">=</span> <span class="op">[</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"> <span class="key">def</span> <span class="nam">scan\_structure</span><span class="op">(</span><span class="nam">path</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">0</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"> <span class="nam">entries</span> <span class="op">=</span> <span class="nam">sorted</span><span class="op">(</span><span class="nam">os</span><span class="op">.</span><span class="nam">listdir</span><span class="op">(</span><span class="nam">path</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t"> <span class="key">except</span> <span class="nam">PermissionError</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="key">return</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="key">for</span> <span class="nam">entry</span> <span class="key">in</span> <span class="nam">entries</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t"> <span class="key">if</span> <span class="nam">should\_exclude\_dir</span><span class="op">(</span><span class="nam">entry</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t75" href="#t75">75</a></span><span class="t"> <span class="key">continue</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t76" href="#t76">76</a></span><span class="t"> <span class="nam">full\_path</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">path</span><span class="op">.</span><span class="nam">join</span><span class="op">(</span><span class="nam">path</span><span class="op">,</span> <span class="nam">entry</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t77" href="#t77">77</a></span><span class="t"> <span class="nam">is\_dir</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">path</span><span class="op">.</span><span class="nam">isdir</span><span class="op">(</span><span class="nam">full\_path</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t78" href="#t78">78</a></span><span class="t"> <span class="nam">indent</span> <span class="op">=</span> <span class="str">" "</span> <span class="op">\*</span> <span class="nam">level</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t79" href="#t79">79</a></span><span class="t"> <span class="nam">icon</span> <span class="op">=</span> <span class="nam">icon\_for</span><span class="op">(</span><span class="nam">entry</span><span class="op">,</span> <span class="nam">is\_dir</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t80" href="#t80">80</a></span><span class="t"> <span class="nam">line</span> <span class="op">=</span> <span class="str">f"{indent}{icon} {entry}/"</span> <span class="key">if</span> <span class="nam">is\_dir</span> <span class="key">else</span> <span class="str">f"{indent}{icon} {entry}"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t81" href="#t81">81</a></span><span class="t"> <span class="nam">folder\_map\_lines</span><span class="op">.</span><span class="nam">append</span><span class="op">(</span><span class="nam">line</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t82" href="#t82">82</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t83" href="#t83">83</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">is\_dir</span> <span class="key">and</span> <span class="nam">should\_include\_file</span><span class="op">(</span><span class="nam">entry</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t84" href="#t84">84</a></span><span class="t"> <span class="nam">content</span> <span class="op">=</span> <span class="nam">read\_file\_content</span><span class="op">(</span><span class="nam">full\_path</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t85" href="#t85">85</a></span><span class="t"> <span class="key">if</span> <span class="nam">content</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t86" href="#t86">86</a></span><span class="t"> <span class="nam">rel\_path</span> <span class="op">=</span> <span class="nam">os</span><span class="op">.</span><span class="nam">path</span><span class="op">.</span><span class="nam">relpath</span><span class="op">(</span><span class="nam">full\_path</span><span class="op">,</span> <span class="nam">root\_dir</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t87" href="#t87">87</a></span><span class="t"> <span class="nam">code\_blocks</span><span class="op">.</span><span class="nam">append</span><span class="op">(</span><span class="op">(</span><span class="nam">rel\_path</span><span class="op">,</span> <span class="nam">content</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t88" href="#t88">88</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t89" href="#t89">89</a></span><span class="t"> <span class="key">if</span> <span class="nam">is\_dir</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t90" href="#t90">90</a></span><span class="t"> <span class="nam">scan\_structure</span><span class="op">(</span><span class="nam">full\_path</span><span class="op">,</span> <span class="nam">level</span> <span class="op">+</span> <span class="num">1</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t91" href="#t91">91</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t92" href="#t92">92</a></span><span class="t"> <span class="nam">folder\_map\_lines</span><span class="op">.</span><span class="nam">append</span><span class="op">(</span><span class="str">f"{os.path.basename(ROOT\_DIR)}/"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t93" href="#t93">93</a></span><span class="t"> <span class="nam">scan\_structure</span><span class="op">(</span><span class="nam">ROOT\_DIR</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">1</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t94" href="#t94">94</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t95" href="#t95">95</a></span><span class="t"> <span class="com"># Folder tree</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t96" href="#t96">96</a></span><span class="t"> <span class="key">for</span> <span class="nam">line</span> <span class="key">in</span> <span class="nam">folder\_map\_lines</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t97" href="#t97">97</a></span><span class="t"> <span class="nam">p</span> <span class="op">=</span> <span class="nam">doc</span><span class="op">.</span><span class="nam">add\_paragraph</span><span class="op">(</span><span class="nam">line</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t98" href="#t98">98</a></span><span class="t"> <span class="nam">apply\_folder\_style</span><span class="op">(</span><span class="nam">p</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t99" href="#t99">99</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t100" href="#t100">100</a></span><span class="t"> <span class="nam">doc</span><span class="op">.</span><span class="nam">add\_paragraph</span><span class="op">(</span><span class="op">)</span> <span class="com"># spacer</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t101" href="#t101">101</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t102" href="#t102">102</a></span><span class="t"> <span class="com"># Code blocks</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t103" href="#t103">103</a></span><span class="t"> <span class="nam">doc</span><span class="op">.</span><span class="nam">add\_heading</span><span class="op">(</span><span class="str">"&#129504; Code &amp; Content"</span><span class="op">,</span> <span class="nam">level</span><span class="op">=</span><span class="num">1</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t104" href="#t104">104</a></span><span class="t"> <span class="key">for</span> <span class="nam">rel\_path</span><span class="op">,</span> <span class="nam">lines</span> <span class="key">in</span> <span class="nam">code\_blocks</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t105" href="#t105">105</a></span><span class="t"> <span class="nam">doc</span><span class="op">.</span><span class="nam">add\_paragraph</span><span class="op">(</span><span class="str">f"&#128196; {rel\_path}"</span><span class="op">,</span> <span class="nam">style</span><span class="op">=</span><span class="str">'Heading3'</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t106" href="#t106">106</a></span><span class="t"> <span class="nam">add\_code\_block</span><span class="op">(</span><span class="nam">doc</span><span class="op">,</span> <span class="nam">lines</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t107" href="#t107">107</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t108" href="#t108">108</a></span><span class="t"> <span class="nam">doc</span><span class="op">.</span><span class="nam">save</span><span class="op">(</span><span class="nam">output\_docx</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t109" href="#t109">109</a></span><span class="t"> <span class="nam">print</span><span class="op">(</span><span class="str">f"&#9989; Saved clean layout to: {output\_docx}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t110" href="#t110">110</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t111" href="#t111">111</a></span><span class="t"><span class="key">if</span> <span class="nam">\_\_name\_\_</span> <span class="op">==</span> <span class="str">"\_\_main\_\_"</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t112" href="#t112">112</a></span><span class="t"> <span class="nam">write\_project\_map</span><span class="op">(</span><span class="nam">ROOT\_DIR</span><span class="op">,</span> <span class="nam">OUTPUT\_DOCX</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_6156a86a215061be\_logger\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_91a712da898ee42e\_\_\_init\_\_\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\routes\\_\_init\_\_.py: 100%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
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 <span class="pc\_cov">100%</span>  
 </h1>  
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 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">0 statements &nbsp;</span>  
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 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">0<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
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 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_91a712da898ee42e\_activity\_routes\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
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 <p class="pln"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_a0a1de4c230ef62c\_tokens\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_91a712da898ee42e\_activity\_routes\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_91a712da898ee42e\_activity\_routes\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
 <title>Coverage for src\routes\activity\_routes.py: 84%</title>  
 <link rel="icon" sizes="32x32" href="favicon\_32\_cb\_58284776.png">  
 <link rel="stylesheet" href="style\_cb\_db813965.css" type="text/css">  
 <script src="coverage\_html\_cb\_497bf287.js" defer></script>  
</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
 <h1>  
 <span class="text">Coverage for </span><b>src\routes\activity\_routes.py</b>:  
 <span class="pc\_cov">84%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
 <img id="keyboard\_icon" src="keybd\_closed\_cb\_ce680311.png" alt="Show/hide keyboard shortcuts">  
 </label>  
 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">55 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">46<span class="text"> run</span></button>  
 <button type="button" class="mis show\_mis button\_toggle\_mis" value="mis" data-shortcut="m" title="Toggle lines missing">9<span class="text"> missing</span></button>  
 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_91a712da898ee42e\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_91a712da898ee42e\_admin\_routes\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 11:52 -0500  
 </p>  
 <aside class="hidden">  
 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
 <button type="button" class="button\_prev\_chunk" data-shortcut="k"></button>  
 <button type="button" class="button\_top\_of\_page" data-shortcut="0"></button>  
 <button type="button" class="button\_first\_chunk" data-shortcut="1"></button>  
 <button type="button" class="button\_prev\_file" data-shortcut="["></button>  
 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">flask</span> <span class="key">import</span> <span class="nam">Blueprint</span><span class="op">,</span> <span class="nam">jsonify</span><span class="op">,</span> <span class="nam">request</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">import</span> <span class="nam">traceback</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span> <span class="key">import</span> <span class="nam">text</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="key">import</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">config</span> <span class="key">as</span> <span class="nam">config</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">services</span><span class="op">.</span><span class="nam">activity\_service</span> <span class="key">import</span> <span class="nam">ActivityIngestionService</span><span class="op">,</span> <span class="nam">run\_enrichment\_batch</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">db\_session</span> <span class="key">import</span> <span class="nam">get\_session</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"><span class="nam">activity\_bp</span> <span class="op">=</span> <span class="nam">Blueprint</span><span class="op">(</span><span class="str">"activity"</span><span class="op">,</span> <span class="nam">\_\_name\_\_</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"><span class="com"># -------- Enrichment Routes --------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"><span class="op">@</span><span class="nam">activity\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/enrich/status"</span><span class="op">,</span> <span class="nam">methods</span><span class="op">=</span><span class="op">[</span><span class="str">"GET"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"><span class="key">def</span> <span class="nam">enrich\_status</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="str">"""Quick health check"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"enrich"</span><span class="op">:</span> <span class="str">"ok"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"><span class="op">@</span><span class="nam">activity\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/enrich/activity/&lt;int:activity\_id>"</span><span class="op">,</span> <span class="nam">methods</span><span class="op">=</span><span class="op">[</span><span class="str">"POST"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"><span class="key">def</span> <span class="nam">enrich\_single</span><span class="op">(</span><span class="nam">activity\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="str">"""Trigger enrichment for a single activity"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="nam">row</span> <span class="op">=</span> <span class="nam">session</span><span class="op">.</span><span class="nam">execute</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="nam">text</span><span class="op">(</span><span class="str">"SELECT athlete\_id FROM activities WHERE activity\_id = :id"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="op">{</span><span class="str">"id"</span><span class="op">:</span> <span class="nam">activity\_id</span><span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="op">)</span><span class="op">.</span><span class="nam">fetchone</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">row</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">f"Activity {activity\_id} not found"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">404</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="nam">athlete\_id</span> <span class="op">=</span> <span class="nam">row</span><span class="op">.</span><span class="nam">athlete\_id</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="nam">service</span> <span class="op">=</span> <span class="nam">ActivityIngestionService</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="nam">service</span><span class="op">.</span><span class="nam">enrich\_single\_activity</span><span class="op">(</span><span class="nam">activity\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"status"</span><span class="op">:</span> <span class="str">f"Activity {activity\_id} enriched"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="nam">str</span><span class="op">(</span><span class="nam">e</span><span class="op">)</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">500</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"><span class="op">@</span><span class="nam">activity\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/enrich/batch"</span><span class="op">,</span> <span class="nam">methods</span><span class="op">=</span><span class="op">[</span><span class="str">"POST"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"><span class="key">def</span> <span class="nam">enrich\_batch</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="str">"""Enrich a batch of activities for a given athlete"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="nam">athlete\_id</span> <span class="op">=</span> <span class="nam">request</span><span class="op">.</span><span class="nam">args</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"athlete\_id"</span><span class="op">,</span> <span class="nam">type</span><span class="op">=</span><span class="nam">int</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="nam">batch</span> <span class="op">=</span> <span class="nam">request</span><span class="op">.</span><span class="nam">args</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"batch"</span><span class="op">,</span> <span class="nam">default</span><span class="op">=</span><span class="num">20</span><span class="op">,</span> <span class="nam">type</span><span class="op">=</span><span class="nam">int</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">athlete\_id</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">"Missing athlete\_id"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">400</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"> <span class="nam">enriched</span> <span class="op">=</span> <span class="nam">run\_enrichment\_batch</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">batch\_size</span><span class="op">=</span><span class="nam">batch</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"status"</span><span class="op">:</span> <span class="str">"Batch enrichment complete"</span><span class="op">,</span> <span class="str">"count"</span><span class="op">:</span> <span class="nam">enriched</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="nam">str</span><span class="op">(</span><span class="nam">e</span><span class="op">)</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">500</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t"><span class="com"># -------- Sync Routes --------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t"><span class="op">@</span><span class="nam">activity\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/sync/&lt;int:athlete\_id>"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"><span class="key">def</span> <span class="nam">sync\_strava\_to\_db</span><span class="op">(</span><span class="nam">athlete\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t"> <span class="str">"""Strava sync endpoint secured via CRON secret"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="nam">key</span> <span class="op">=</span> <span class="nam">request</span><span class="op">.</span><span class="nam">args</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"key"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">config</span><span class="op">.</span><span class="nam">CRON\_SECRET\_KEY</span> <span class="key">or</span> <span class="nam">key</span> <span class="op">!=</span> <span class="nam">config</span><span class="op">.</span><span class="nam">CRON\_SECRET\_KEY</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="nam">error</span><span class="op">=</span><span class="str">"Unauthorized"</span><span class="op">)</span><span class="op">,</span> <span class="num">401</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t75" href="#t75">75</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t76" href="#t76">76</a></span><span class="t"> <span class="nam">lookback\_days</span> <span class="op">=</span> <span class="nam">request</span><span class="op">.</span><span class="nam">args</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"lookback"</span><span class="op">,</span> <span class="nam">default</span><span class="op">=</span><span class="num">30</span><span class="op">,</span> <span class="nam">type</span><span class="op">=</span><span class="nam">int</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t77" href="#t77">77</a></span><span class="t"> <span class="nam">max\_activities</span> <span class="op">=</span> <span class="nam">request</span><span class="op">.</span><span class="nam">args</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"limit"</span><span class="op">,</span> <span class="nam">default</span><span class="op">=</span><span class="key">None</span><span class="op">,</span> <span class="nam">type</span><span class="op">=</span><span class="nam">int</span><span class="op">)</span> <span class="com"># &lt;--- FIXED HERE</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t78" href="#t78">78</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t79" href="#t79">79</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t80" href="#t80">80</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t81" href="#t81">81</a></span><span class="t"> <span class="nam">ingestion\_service</span> <span class="op">=</span> <span class="nam">ActivityIngestionService</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t82" href="#t82">82</a></span><span class="t"> <span class="nam">inserted</span> <span class="op">=</span> <span class="nam">ingestion\_service</span><span class="op">.</span><span class="nam">ingest\_recent</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t83" href="#t83">83</a></span><span class="t"> <span class="nam">lookback\_days</span><span class="op">=</span><span class="nam">lookback\_days</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t84" href="#t84">84</a></span><span class="t"> <span class="nam">max\_activities</span><span class="op">=</span><span class="nam">max\_activities</span> <span class="com"># &lt;--- FIXED HERE</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t85" href="#t85">85</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t86" href="#t86">86</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="nam">inserted</span><span class="op">=</span><span class="nam">inserted</span><span class="op">)</span><span class="op">,</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t87" href="#t87">87</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t88" href="#t88">88</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t89" href="#t89">89</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="nam">error</span><span class="op">=</span><span class="str">"Sync failed"</span><span class="op">,</span> <span class="nam">details</span><span class="op">=</span><span class="nam">str</span><span class="op">(</span><span class="nam">e</span><span class="op">)</span><span class="op">)</span><span class="op">,</span> <span class="num">500</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t90" href="#t90">90</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t91" href="#t91">91</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
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 <a class="nav" href="z\_91a712da898ee42e\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_91a712da898ee42e\_admin\_routes\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
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 created at 2025-06-20 11:52 -0500  
 </p>  
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### 📄 htmlcov\z\_91a712da898ee42e\_admin\_routes\_py.html

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<header>  
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 <span class="text">Coverage for </span><b>src\routes\admin\_routes.py</b>:  
 <span class="pc\_cov">80%</span>  
 </h1>  
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 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
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 <kbd>u</kbd> &nbsp; up to the index  
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 <kbd>?</kbd> &nbsp; show/hide this help  
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 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_91a712da898ee42e\_auth\_routes\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
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 created at 2025-06-20 09:34 -0500  
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 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">flask</span> <span class="key">import</span> <span class="nam">Blueprint</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="nam">admin\_bp</span> <span class="op">=</span> <span class="nam">Blueprint</span><span class="op">(</span><span class="str">"admin"</span><span class="op">,</span> <span class="nam">\_\_name\_\_</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="op">@</span><span class="nam">admin\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/admin/ping"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="key">def</span> <span class="nam">ping</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"> <span class="key">return</span> <span class="str">"pong from admin"</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_91a712da898ee42e\_auth\_routes\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
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 created at 2025-06-20 09:34 -0500  
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 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_91a712da898ee42e\_auth\_routes\_py.html

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<body class="pyfile">  
<header>  
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 <span class="text">Coverage for </span><b>src\routes\auth\_routes.py</b>:  
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 <span class="text">88 statements &nbsp;</span>  
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 <a id="nextFileLink" class="nav" href="z\_fa000675cb663943\_\_\_init\_\_\_py.html">&#xbb; next</a>  
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 </div>  
</header>  
<main id="source">  
 <p class="pln"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="com"># src/routes/auth\_routes.py</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">from</span> <span class="nam">flask</span> <span class="key">import</span> <span class="nam">Blueprint</span><span class="op">,</span> <span class="nam">redirect</span><span class="op">,</span> <span class="nam">request</span><span class="op">,</span> <span class="nam">jsonify</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">import</span> <span class="nam">traceback</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"><span class="key">import</span> <span class="nam">requests</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="key">from</span> <span class="nam">datetime</span> <span class="key">import</span> <span class="nam">datetime</span><span class="op">,</span> <span class="nam">timedelta</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="key">import</span> <span class="nam">jwt</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"><span class="key">import</span> <span class="nam">src</span><span class="op">.</span><span class="nam">utils</span><span class="op">.</span><span class="nam">config</span> <span class="key">as</span> <span class="nam">config</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">services</span><span class="op">.</span><span class="nam">token\_service</span> <span class="key">import</span> <span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"> <span class="nam">get\_authorization\_url</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"> <span class="nam">store\_tokens\_from\_callback</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"> <span class="nam">refresh\_token\_if\_expired</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="nam">delete\_athlete\_tokens</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">db\_session</span> <span class="key">import</span> <span class="nam">get\_session</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"><span class="nam">auth\_bp</span> <span class="op">=</span> <span class="nam">Blueprint</span><span class="op">(</span><span class="str">"auth"</span><span class="op">,</span> <span class="nam">\_\_name\_\_</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"><span class="com"># -------- Admin Login (POST, API) --------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"><span class="op">@</span><span class="nam">auth\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/login"</span><span class="op">,</span> <span class="nam">methods</span><span class="op">=</span><span class="op">[</span><span class="str">"POST"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"><span class="key">def</span> <span class="nam">admin\_login</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="nam">data</span> <span class="op">=</span> <span class="nam">request</span><span class="op">.</span><span class="nam">get\_json</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="nam">username</span> <span class="op">=</span> <span class="nam">data</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"username"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="nam">password</span> <span class="op">=</span> <span class="nam">data</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"password"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="key">if</span> <span class="nam">username</span> <span class="op">==</span> <span class="nam">config</span><span class="op">.</span><span class="nam">ADMIN\_USER</span> <span class="key">and</span> <span class="nam">password</span> <span class="op">==</span> <span class="nam">config</span><span class="op">.</span><span class="nam">ADMIN\_PASS</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="nam">access\_token</span> <span class="op">=</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">encode</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="str">"sub"</span><span class="op">:</span> <span class="nam">username</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="str">"exp"</span><span class="op">:</span> <span class="nam">datetime</span><span class="op">.</span><span class="nam">utcnow</span><span class="op">(</span><span class="op">)</span> <span class="op">+</span> <span class="nam">timedelta</span><span class="op">(</span><span class="nam">seconds</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">ACCESS\_TOKEN\_EXP</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="op">}</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="nam">config</span><span class="op">.</span><span class="nam">SECRET\_KEY</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="nam">algorithm</span><span class="op">=</span><span class="str">"HS256"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="nam">refresh\_token</span> <span class="op">=</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">encode</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="str">"sub"</span><span class="op">:</span> <span class="nam">username</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="str">"exp"</span><span class="op">:</span> <span class="nam">datetime</span><span class="op">.</span><span class="nam">utcnow</span><span class="op">(</span><span class="op">)</span> <span class="op">+</span> <span class="nam">timedelta</span><span class="op">(</span><span class="nam">seconds</span><span class="op">=</span><span class="nam">config</span><span class="op">.</span><span class="nam">REFRESH\_TOKEN\_EXP</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="op">}</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="nam">config</span><span class="op">.</span><span class="nam">SECRET\_KEY</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"> <span class="nam">algorithm</span><span class="op">=</span><span class="str">"HS256"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="str">"access\_token"</span><span class="op">:</span> <span class="nam">access\_token</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="str">"refresh\_token"</span><span class="op">:</span> <span class="nam">refresh\_token</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="key">else</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">"Unauthorized"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">401</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="nam">str</span><span class="op">(</span><span class="nam">e</span><span class="op">)</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">500</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"><span class="com"># -------- Strava OAuth Login (GET, Browser) --------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"><span class="op">@</span><span class="nam">auth\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/login"</span><span class="op">,</span> <span class="nam">methods</span><span class="op">=</span><span class="op">[</span><span class="str">"GET"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t"><span class="key">def</span> <span class="nam">strava\_login</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t"> <span class="str">"""</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"><span class="str"> Redirects browser to Strava OAuth authorization URL.</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t62" href="#t62">62</a></span><span class="t"><span class="str"> """</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t63" href="#t63">63</a></span><span class="t"> <span class="key">return</span> <span class="nam">redirect</span><span class="op">(</span><span class="nam">get\_authorization\_url</span><span class="op">(</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t64" href="#t64">64</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t65" href="#t65">65</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t66" href="#t66">66</a></span><span class="t"><span class="com"># -------- Strava OAuth Callback --------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t67" href="#t67">67</a></span><span class="t"><span class="op">@</span><span class="nam">auth\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/callback"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t68" href="#t68">68</a></span><span class="t"><span class="key">def</span> <span class="nam">callback</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t69" href="#t69">69</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t70" href="#t70">70</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t71" href="#t71">71</a></span><span class="t"> <span class="nam">code</span> <span class="op">=</span> <span class="nam">request</span><span class="op">.</span><span class="nam">args</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"code"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t72" href="#t72">72</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">code</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t73" href="#t73">73</a></span><span class="t"> <span class="key">return</span> <span class="str">"&#10060; Missing OAuth code"</span><span class="op">,</span> <span class="num">400</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t74" href="#t74">74</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t75" href="#t75">75</a></span><span class="t"> <span class="nam">athlete\_id</span> <span class="op">=</span> <span class="nam">store\_tokens\_from\_callback</span><span class="op">(</span><span class="nam">code</span><span class="op">,</span> <span class="nam">session</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t76" href="#t76">76</a></span><span class="t"> <span class="key">return</span> <span class="str">f"&#9989; Token stored for athlete\_id: {athlete\_id}"</span><span class="op">,</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t77" href="#t77">77</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t78" href="#t78">78</a></span><span class="t"> <span class="key">except</span> <span class="nam">requests</span><span class="op">.</span><span class="nam">exceptions</span><span class="op">.</span><span class="nam">HTTPError</span> <span class="key">as</span> <span class="nam">http\_err</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t79" href="#t79">79</a></span><span class="t"> <span class="key">if</span> <span class="nam">http\_err</span><span class="op">.</span><span class="nam">response</span> <span class="key">and</span> <span class="nam">http\_err</span><span class="op">.</span><span class="nam">response</span><span class="op">.</span><span class="nam">status\_code</span> <span class="op">==</span> <span class="num">400</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t80" href="#t80">80</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">"Invalid OAuth code or bad request"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">401</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t81" href="#t81">81</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t82" href="#t82">82</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="nam">str</span><span class="op">(</span><span class="nam">http\_err</span><span class="op">)</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">502</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t83" href="#t83">83</a></span><span class="t"> <span class="key">except</span> <span class="nam">KeyError</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t84" href="#t84">84</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t85" href="#t85">85</a></span><span class="t"> <span class="key">return</span> <span class="str">"&#10060; Strava callback data incomplete"</span><span class="op">,</span> <span class="num">502</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t86" href="#t86">86</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t87" href="#t87">87</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t88" href="#t88">88</a></span><span class="t"> <span class="key">return</span> <span class="str">f"&#10060; Callback error: {str(e)}"</span><span class="op">,</span> <span class="num">500</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t89" href="#t89">89</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t90" href="#t90">90</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t91" href="#t91">91</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t92" href="#t92">92</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t93" href="#t93">93</a></span><span class="t"><span class="com"># -------- Token Refresh --------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t94" href="#t94">94</a></span><span class="t"><span class="op">@</span><span class="nam">auth\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/refresh/&lt;int:athlete\_id>"</span><span class="op">,</span> <span class="nam">methods</span><span class="op">=</span><span class="op">[</span><span class="str">"POST"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t95" href="#t95">95</a></span><span class="t"><span class="key">def</span> <span class="nam">refresh\_token</span><span class="op">(</span><span class="nam">athlete\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t96" href="#t96">96</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t97" href="#t97">97</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t98" href="#t98">98</a></span><span class="t"> <span class="nam">auth\_header</span> <span class="op">=</span> <span class="nam">request</span><span class="op">.</span><span class="nam">headers</span><span class="op">.</span><span class="nam">get</span><span class="op">(</span><span class="str">"Authorization"</span><span class="op">,</span> <span class="str">""</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t99" href="#t99">99</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">auth\_header</span><span class="op">.</span><span class="nam">startswith</span><span class="op">(</span><span class="str">"Bearer "</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t100" href="#t100">100</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">"Missing or invalid Authorization header"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">401</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t101" href="#t101">101</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t102" href="#t102">102</a></span><span class="t"> <span class="nam">token</span> <span class="op">=</span> <span class="nam">auth\_header</span><span class="op">.</span><span class="nam">split</span><span class="op">(</span><span class="str">" "</span><span class="op">)</span><span class="op">[</span><span class="num">1</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t103" href="#t103">103</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t104" href="#t104">104</a></span><span class="t"> <span class="nam">jwt</span><span class="op">.</span><span class="nam">decode</span><span class="op">(</span><span class="nam">token</span><span class="op">,</span> <span class="nam">config</span><span class="op">.</span><span class="nam">SECRET\_KEY</span><span class="op">,</span> <span class="nam">algorithms</span><span class="op">=</span><span class="op">[</span><span class="str">"HS256"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t105" href="#t105">105</a></span><span class="t"> <span class="key">except</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">ExpiredSignatureError</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t106" href="#t106">106</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">"Refresh token expired"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">401</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t107" href="#t107">107</a></span><span class="t"> <span class="key">except</span> <span class="nam">jwt</span><span class="op">.</span><span class="nam">InvalidTokenError</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t108" href="#t108">108</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="str">"Invalid token"</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">401</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t109" href="#t109">109</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t110" href="#t110">110</a></span><span class="t"> <span class="nam">refreshed</span> <span class="op">=</span> <span class="nam">refresh\_token\_if\_expired</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t111" href="#t111">111</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"refreshed"</span><span class="op">:</span> <span class="nam">refreshed</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t112" href="#t112">112</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t113" href="#t113">113</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t114" href="#t114">114</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="nam">str</span><span class="op">(</span><span class="nam">e</span><span class="op">)</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">500</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t115" href="#t115">115</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t116" href="#t116">116</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t117" href="#t117">117</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t118" href="#t118">118</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t119" href="#t119">119</a></span><span class="t"><span class="com"># -------- Logout --------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t120" href="#t120">120</a></span><span class="t"><span class="op">@</span><span class="nam">auth\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/logout/&lt;int:athlete\_id>"</span><span class="op">,</span> <span class="nam">methods</span><span class="op">=</span><span class="op">[</span><span class="str">"POST"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t121" href="#t121">121</a></span><span class="t"><span class="key">def</span> <span class="nam">logout</span><span class="op">(</span><span class="nam">athlete\_id</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t122" href="#t122">122</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t123" href="#t123">123</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t124" href="#t124">124</a></span><span class="t"> <span class="nam">deleted</span> <span class="op">=</span> <span class="nam">delete\_athlete\_tokens</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">athlete\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t125" href="#t125">125</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"deleted"</span><span class="op">:</span> <span class="nam">deleted</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t126" href="#t126">126</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t127" href="#t127">127</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t128" href="#t128">128</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="nam">str</span><span class="op">(</span><span class="nam">e</span><span class="op">)</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">500</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t129" href="#t129">129</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t130" href="#t130">130</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t131" href="#t131">131</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t132" href="#t132">132</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t133" href="#t133">133</a></span><span class="t"><span class="com"># -------- Token Monitoring --------</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t134" href="#t134">134</a></span><span class="t"><span class="op">@</span><span class="nam">auth\_bp</span><span class="op">.</span><span class="nam">route</span><span class="op">(</span><span class="str">"/monitor-tokens"</span><span class="op">,</span> <span class="nam">methods</span><span class="op">=</span><span class="op">[</span><span class="str">"GET"</span><span class="op">]</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t135" href="#t135">135</a></span><span class="t"><span class="key">def</span> <span class="nam">monitor\_tokens</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t136" href="#t136">136</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t137" href="#t137">137</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t138" href="#t138">138</a></span><span class="t"> <span class="nam">rows</span> <span class="op">=</span> <span class="nam">session</span><span class="op">.</span><span class="nam">execute</span><span class="op">(</span><span class="str">"SELECT athlete\_id, expires\_at FROM tokens ORDER BY expires\_at"</span><span class="op">)</span><span class="op">.</span><span class="nam">fetchall</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t139" href="#t139">139</a></span><span class="t"> <span class="nam">data</span> <span class="op">=</span> <span class="op">[</span><span class="op">{</span><span class="str">"athlete\_id"</span><span class="op">:</span> <span class="nam">r</span><span class="op">.</span><span class="nam">athlete\_id</span><span class="op">,</span> <span class="str">"expires\_at"</span><span class="op">:</span> <span class="nam">r</span><span class="op">.</span><span class="nam">expires\_at</span><span class="op">}</span> <span class="key">for</span> <span class="nam">r</span> <span class="key">in</span> <span class="nam">rows</span><span class="op">]</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t140" href="#t140">140</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="nam">data</span><span class="op">)</span><span class="op">,</span> <span class="num">200</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t141" href="#t141">141</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t142" href="#t142">142</a></span><span class="t"> <span class="nam">traceback</span><span class="op">.</span><span class="nam">print\_exc</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t143" href="#t143">143</a></span><span class="t"> <span class="key">return</span> <span class="nam">jsonify</span><span class="op">(</span><span class="op">{</span><span class="str">"error"</span><span class="op">:</span> <span class="nam">str</span><span class="op">(</span><span class="nam">e</span><span class="op">)</span><span class="op">}</span><span class="op">)</span><span class="op">,</span> <span class="num">500</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t144" href="#t144">144</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t145" href="#t145">145</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="z\_fa000675cb663943\_\_\_init\_\_\_py.html">&#xbb; next</a>  
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### 📄 htmlcov\z\_a0a1de4c230ef62c\_\_\_init\_\_\_py.html

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 <span class="pc\_cov">100%</span>  
 </h1>  
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 <div class="keyhelp">  
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 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
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 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
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 </p>  
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 &nbsp; prev/next file  
 </p>  
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 <kbd>u</kbd> &nbsp; up to the index  
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 <a id="nextFileLink" class="nav" href="z\_a0a1de4c230ef62c\_activities\_py.html">&#xbb; next</a>  
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 created at 2025-06-20 09:34 -0500  
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 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_a0a1de4c230ef62c\_activities\_py.html">&#xbb; next</a>  
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 created at 2025-06-20 09:34 -0500  
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### 📄 htmlcov\z\_a0a1de4c230ef62c\_activities\_py.html

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 <span class="pc\_cov">100%</span>  
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 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
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 <kbd>?</kbd> &nbsp; show/hide this help  
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 <a id="prevFileLink" class="nav" href="z\_a0a1de4c230ef62c\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_a0a1de4c230ef62c\_athletes\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
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 </div>  
</header>  
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 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span> <span class="key">import</span> <span class="nam">Column</span><span class="op">,</span> <span class="nam">BigInteger</span><span class="op">,</span> <span class="nam">Integer</span><span class="op">,</span> <span class="nam">String</span><span class="op">,</span> <span class="nam">Float</span><span class="op">,</span> <span class="nam">DateTime</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">db\_session</span> <span class="key">import</span> <span class="nam">Base</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">class</span> <span class="nam">Activity</span><span class="op">(</span><span class="nam">Base</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"> <span class="nam">\_\_tablename\_\_</span> <span class="op">=</span> <span class="str">"activities"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"> <span class="nam">activity\_id</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">BigInteger</span><span class="op">,</span> <span class="nam">primary\_key</span><span class="op">=</span><span class="key">True</span><span class="op">,</span> <span class="nam">index</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"> <span class="nam">athlete\_id</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">BigInteger</span><span class="op">,</span> <span class="nam">nullable</span><span class="op">=</span><span class="key">False</span><span class="op">,</span> <span class="nam">index</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"> <span class="nam">name</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">String</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"> <span class="nam">type</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">String</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"> <span class="nam">start\_date</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">DateTime</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"> <span class="nam">distance</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"> <span class="nam">elapsed\_time</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Integer</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"> <span class="nam">moving\_time</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Integer</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t"> <span class="nam">total\_elevation\_gain</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"> <span class="nam">external\_id</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">String</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="nam">timezone</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">String</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"> <span class="nam">average\_speed</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="nam">max\_speed</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"> <span class="nam">suffer\_score</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="nam">average\_heartrate</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="nam">max\_heartrate</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="nam">calories</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="nam">conv\_distance</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="nam">conv\_elevation\_feet</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">conv\_avg\_speed</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">conv\_max\_speed</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="nam">conv\_moving\_time</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">String</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="nam">conv\_elapsed\_time</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">String</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="com"># HR Zone enrichment (test field)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="nam">hr\_zone\_1</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">,</span> <span class="nam">nullable</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="nam">hr\_zone\_2</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">,</span> <span class="nam">nullable</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
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 <p class="run"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="nam">hr\_zone\_5</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">,</span> <span class="nam">nullable</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_a0a1de4c230ef62c\_athletes\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
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</footer>  
</body>  
</html>

### 📄 htmlcov\z\_a0a1de4c230ef62c\_athletes\_py.html

<!DOCTYPE html>  
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<header>  
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 <span class="pc\_cov">100%</span>  
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 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">9 statements &nbsp;</span>  
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 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_a0a1de4c230ef62c\_splits\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
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 created at 2025-06-20 09:34 -0500  
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 <button type="button" class="button\_next\_chunk" data-shortcut="j"></button>  
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</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span> <span class="key">import</span> <span class="nam">Column</span><span class="op">,</span> <span class="nam">Integer</span><span class="op">,</span> <span class="nam">BigInteger</span><span class="op">,</span> <span class="nam">String</span><span class="op">,</span> <span class="nam">DateTime</span><span class="op">,</span> <span class="nam">func</span>&nbsp;</span><span class="r"></span></p>  
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 <p class="pln"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">class</span> <span class="nam">Athlete</span><span class="op">(</span><span class="nam">Base</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
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 <a class="nav" href="z\_a0a1de4c230ef62c\_activities\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
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### 📄 htmlcov\z\_a0a1de4c230ef62c\_splits\_py.html

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 <span class="pc\_cov">85%</span>  
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 <p class="legend">Shortcuts on this page</p>  
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 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
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 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
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 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
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 <a id="nextFileLink" class="nav" href="z\_a0a1de4c230ef62c\_tokens\_py.html">&#xbb; next</a>  
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 created at 2025-06-20 13:38 -0500  
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</header>  
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 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span> <span class="key">import</span> <span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"> <span class="nam">Column</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"> <span class="nam">Integer</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"> <span class="nam">Float</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"> <span class="nam">ForeignKey</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"> <span class="nam">TIMESTAMP</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"> <span class="nam">BigInteger</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"> <span class="nam">String</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"> <span class="nam">UniqueConstraint</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"> <span class="nam">Boolean</span><span class="op">,</span> <span class="com"># &#9989; Added Boolean</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span><span class="op">.</span><span class="nam">sql</span> <span class="key">import</span> <span class="nam">func</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span><span class="op">.</span><span class="nam">dialects</span><span class="op">.</span><span class="nam">postgresql</span> <span class="key">import</span> <span class="nam">insert</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">db\_session</span> <span class="key">import</span> <span class="nam">Base</span><span class="op">,</span> <span class="nam">get\_session</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"><span class="key">class</span> <span class="nam">Split</span><span class="op">(</span><span class="nam">Base</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="nam">\_\_tablename\_\_</span> <span class="op">=</span> <span class="str">"splits"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="nam">id</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Integer</span><span class="op">,</span> <span class="nam">primary\_key</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"> <span class="nam">activity\_id</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">BigInteger</span><span class="op">,</span> <span class="nam">ForeignKey</span><span class="op">(</span><span class="str">"activities.activity\_id"</span><span class="op">,</span> <span class="nam">ondelete</span><span class="op">=</span><span class="str">"CASCADE"</span><span class="op">)</span><span class="op">,</span> <span class="nam">nullable</span><span class="op">=</span><span class="key">False</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="nam">lap\_index</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Integer</span><span class="op">,</span> <span class="nam">nullable</span><span class="op">=</span><span class="key">False</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t"> <span class="nam">distance</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"> <span class="nam">elapsed\_time</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Integer</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="nam">moving\_time</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Integer</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="nam">average\_speed</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="nam">max\_speed</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">start\_index</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Integer</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">end\_index</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Integer</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="nam">split</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Integer</span><span class="op">,</span> <span class="nam">nullable</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="nam">average\_heartrate</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t"> <span class="nam">pace\_zone</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Integer</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="nam">created\_at</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">TIMESTAMP</span><span class="op">,</span> <span class="nam">server\_default</span><span class="op">=</span><span class="nam">func</span><span class="op">.</span><span class="nam">now</span><span class="op">(</span><span class="op">)</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t"> <span class="nam">conv\_distance</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="nam">conv\_avg\_speed</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">Float</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="nam">conv\_moving\_time</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">String</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="nam">conv\_elapsed\_time</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">String</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="nam">\_\_table\_args\_\_</span> <span class="op">=</span> <span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="nam">UniqueConstraint</span><span class="op">(</span><span class="str">"activity\_id"</span><span class="op">,</span> <span class="str">"lap\_index"</span><span class="op">,</span> <span class="nam">name</span><span class="op">=</span><span class="str">"uq\_activity\_lap"</span><span class="op">)</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
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 <p class="run"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"><span class="key">def</span> <span class="nam">upsert\_splits</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">splits\_data</span><span class="op">:</span> <span class="nam">list</span><span class="op">[</span><span class="nam">dict</span><span class="op">]</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">splits\_data</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="key">return</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="nam">stmt</span> <span class="op">=</span> <span class="nam">insert</span><span class="op">(</span><span class="nam">Split</span><span class="op">)</span><span class="op">.</span><span class="nam">values</span><span class="op">(</span><span class="nam">splits\_data</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="nam">update\_cols</span> <span class="op">=</span> <span class="op">{</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="nam">c</span><span class="op">.</span><span class="nam">name</span><span class="op">:</span> <span class="nam">getattr</span><span class="op">(</span><span class="nam">stmt</span><span class="op">.</span><span class="nam">excluded</span><span class="op">,</span> <span class="nam">c</span><span class="op">.</span><span class="nam">name</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="key">for</span> <span class="nam">c</span> <span class="key">in</span> <span class="nam">Split</span><span class="op">.</span><span class="nam">\_\_table\_\_</span><span class="op">.</span><span class="nam">columns</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t"> <span class="key">if</span> <span class="nam">c</span><span class="op">.</span><span class="nam">name</span> <span class="key">not</span> <span class="key">in</span> <span class="op">{</span><span class="str">"id"</span><span class="op">,</span> <span class="str">"created\_at"</span><span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t"> <span class="op">}</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t"> <span class="nam">stmt</span> <span class="op">=</span> <span class="nam">stmt</span><span class="op">.</span><span class="nam">on\_conflict\_do\_update</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"> <span class="nam">constraint</span><span class="op">=</span><span class="str">"uq\_activity\_lap"</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="nam">set\_</span><span class="op">=</span><span class="nam">update\_cols</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t58" href="#t58">58</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t59" href="#t59">59</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t60" href="#t60">60</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">execute</span><span class="op">(</span><span class="nam">stmt</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t61" href="#t61">61</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">commit</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
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 <a class="nav" href="z\_a0a1de4c230ef62c\_athletes\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_a0a1de4c230ef62c\_tokens\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 13:38 -0500  
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</footer>  
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### 📄 htmlcov\z\_a0a1de4c230ef62c\_tokens\_py.html

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 <span class="pc\_cov">100%</span>  
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 <aside id="help\_panel\_wrapper">  
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 &nbsp; toggle line displays  
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 &nbsp; next/prev highlighted chunk  
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 <kbd>?</kbd> &nbsp; show/hide this help  
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 <span class="text">8 statements &nbsp;</span>  
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 <button type="button" class="exc show\_exc button\_toggle\_exc" value="exc" data-shortcut="x" title="Toggle lines excluded">0<span class="text"> excluded</span></button>  
 </h2>  
 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_a0a1de4c230ef62c\_splits\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_91a712da898ee42e\_\_\_init\_\_\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
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 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
 </aside>  
 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">from</span> <span class="nam">sqlalchemy</span> <span class="key">import</span> <span class="nam">Column</span><span class="op">,</span> <span class="nam">BigInteger</span><span class="op">,</span> <span class="nam">String</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">db\_session</span> <span class="key">import</span> <span class="nam">Base</span> <span class="com"># &#9989; use shared Base</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">class</span> <span class="nam">Token</span><span class="op">(</span><span class="nam">Base</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t"> <span class="nam">\_\_tablename\_\_</span> <span class="op">=</span> <span class="str">"tokens"</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"> <span class="nam">athlete\_id</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">BigInteger</span><span class="op">,</span> <span class="nam">primary\_key</span><span class="op">=</span><span class="key">True</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"> <span class="nam">access\_token</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">String</span><span class="op">,</span> <span class="nam">nullable</span><span class="op">=</span><span class="key">False</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"> <span class="nam">refresh\_token</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">String</span><span class="op">,</span> <span class="nam">nullable</span><span class="op">=</span><span class="key">False</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"> <span class="nam">expires\_at</span> <span class="op">=</span> <span class="nam">Column</span><span class="op">(</span><span class="nam">BigInteger</span><span class="op">,</span> <span class="nam">nullable</span><span class="op">=</span><span class="key">False</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_a0a1de4c230ef62c\_splits\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_91a712da898ee42e\_\_\_init\_\_\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:34 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_fa000675cb663943\_\_\_init\_\_\_py.html

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
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<body class="pyfile">  
<header>  
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 <h1>  
 <span class="text">Coverage for </span><b>src\scripts\\_\_init\_\_.py</b>:  
 <span class="pc\_cov">100%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
 <label for="help\_panel\_state">  
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 <div id="help\_panel">  
 <p class="legend">Shortcuts on this page</p>  
 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">0 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">0<span class="text"> run</span></button>  
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 <p class="text">  
 <a id="prevFileLink" class="nav" href="z\_91a712da898ee42e\_auth\_routes\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_fa000675cb663943\_main\_pipeline\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:53 -0500  
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 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
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 </div>  
</header>  
<main id="source">  
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</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_91a712da898ee42e\_auth\_routes\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_fa000675cb663943\_main\_pipeline\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:53 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 htmlcov\z\_fa000675cb663943\_main\_pipeline\_py.html

<!DOCTYPE html>  
<html lang="en">  
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 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">  
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</head>  
<body class="pyfile">  
<header>  
 <div class="content">  
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 <span class="text">Coverage for </span><b>src\scripts\main\_pipeline.py</b>:  
 <span class="pc\_cov">89%</span>  
 </h1>  
 <aside id="help\_panel\_wrapper">  
 <input id="help\_panel\_state" type="checkbox">  
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 <div class="keyhelp">  
 <p>  
 <kbd>r</kbd>  
 <kbd>m</kbd>  
 <kbd>x</kbd>  
 &nbsp; toggle line displays  
 </p>  
 <p>  
 <kbd>j</kbd>  
 <kbd>k</kbd>  
 &nbsp; next/prev highlighted chunk  
 </p>  
 <p>  
 <kbd>0</kbd> &nbsp; (zero) top of page  
 </p>  
 <p>  
 <kbd>1</kbd> &nbsp; (one) first highlighted chunk  
 </p>  
 <p>  
 <kbd>[</kbd>  
 <kbd>]</kbd>  
 &nbsp; prev/next file  
 </p>  
 <p>  
 <kbd>u</kbd> &nbsp; up to the index  
 </p>  
 <p>  
 <kbd>?</kbd> &nbsp; show/hide this help  
 </p>  
 </div>  
 </div>  
 </aside>  
 <h2>  
 <span class="text">38 statements &nbsp;</span>  
 <button type="button" class="run button\_toggle\_run" value="run" data-shortcut="r" title="Toggle lines run">34<span class="text"> run</span></button>  
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 <a id="prevFileLink" class="nav" href="z\_fa000675cb663943\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a id="indexLink" class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a id="nextFileLink" class="nav" href="z\_33ea1954bbe60e2e\_\_\_init\_\_\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
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 <button type="button" class="button\_next\_file" data-shortcut="]"></button>  
 <button type="button" class="button\_to\_index" data-shortcut="u"></button>  
 <button type="button" class="button\_show\_hide\_help" data-shortcut="?"></button>  
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 </div>  
</header>  
<main id="source">  
 <p class="run"><span class="n"><a id="t1" href="#t1">1</a></span><span class="t"><span class="key">import</span> <span class="nam">argparse</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t2" href="#t2">2</a></span><span class="t"><span class="key">import</span> <span class="nam">logging</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t3" href="#t3">3</a></span><span class="t"><span class="key">import</span> <span class="nam">sys</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t4" href="#t4">4</a></span><span class="t"><span class="key">from</span> <span class="nam">datetime</span> <span class="key">import</span> <span class="nam">datetime</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t5" href="#t5">5</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t6" href="#t6">6</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">db</span><span class="op">.</span><span class="nam">db\_session</span> <span class="key">import</span> <span class="nam">get\_session</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t7" href="#t7">7</a></span><span class="t"><span class="key">from</span> <span class="nam">src</span><span class="op">.</span><span class="nam">services</span><span class="op">.</span><span class="nam">ingestion\_orchestrator\_service</span> <span class="key">import</span> <span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t8" href="#t8">8</a></span><span class="t"> <span class="nam">run\_full\_ingestion\_and\_enrichment</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t9" href="#t9">9</a></span><span class="t"> <span class="nam">ingest\_specific\_activity</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t10" href="#t10">10</a></span><span class="t"> <span class="nam">ingest\_between\_dates</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t11" href="#t11">11</a></span><span class="t"><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t12" href="#t12">12</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t13" href="#t13">13</a></span><span class="t"><span class="nam">logging</span><span class="op">.</span><span class="nam">basicConfig</span><span class="op">(</span><span class="nam">level</span><span class="op">=</span><span class="nam">logging</span><span class="op">.</span><span class="nam">INFO</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t14" href="#t14">14</a></span><span class="t"><span class="nam">logger</span> <span class="op">=</span> <span class="nam">logging</span><span class="op">.</span><span class="nam">getLogger</span><span class="op">(</span><span class="nam">\_\_name\_\_</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t15" href="#t15">15</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t16" href="#t16">16</a></span><span class="t"><span class="key">def</span> <span class="nam">parse\_date</span><span class="op">(</span><span class="nam">date\_str</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t17" href="#t17">17</a></span><span class="t"> <span class="key">if</span> <span class="key">not</span> <span class="nam">date\_str</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t18" href="#t18">18</a></span><span class="t"> <span class="key">return</span> <span class="key">None</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t19" href="#t19">19</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t20" href="#t20">20</a></span><span class="t"> <span class="key">return</span> <span class="nam">datetime</span><span class="op">.</span><span class="nam">fromisoformat</span><span class="op">(</span><span class="nam">date\_str</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t21" href="#t21">21</a></span><span class="t"> <span class="key">except</span> <span class="nam">ValueError</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t22" href="#t22">22</a></span><span class="t"> <span class="key">raise</span> <span class="nam">argparse</span><span class="op">.</span><span class="nam">ArgumentTypeError</span><span class="op">(</span><span class="str">f"Invalid date format: {date\_str}. Use YYYY-MM-DD."</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t23" href="#t23">23</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t24" href="#t24">24</a></span><span class="t"><span class="key">def</span> <span class="nam">main</span><span class="op">(</span><span class="op">)</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t25" href="#t25">25</a></span><span class="t"> <span class="nam">parser</span> <span class="op">=</span> <span class="nam">argparse</span><span class="op">.</span><span class="nam">ArgumentParser</span><span class="op">(</span><span class="nam">description</span><span class="op">=</span><span class="str">"Orchestrate full sync + enrichment for existing athlete"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t26" href="#t26">26</a></span><span class="t"> <span class="nam">parser</span><span class="op">.</span><span class="nam">add\_argument</span><span class="op">(</span><span class="str">"--athlete\_id"</span><span class="op">,</span> <span class="nam">required</span><span class="op">=</span><span class="key">True</span><span class="op">,</span> <span class="nam">type</span><span class="op">=</span><span class="nam">int</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t27" href="#t27">27</a></span><span class="t"> <span class="nam">parser</span><span class="op">.</span><span class="nam">add\_argument</span><span class="op">(</span><span class="str">"--lookback\_days"</span><span class="op">,</span> <span class="nam">type</span><span class="op">=</span><span class="nam">int</span><span class="op">,</span> <span class="nam">default</span><span class="op">=</span><span class="num">30</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t28" href="#t28">28</a></span><span class="t"> <span class="nam">parser</span><span class="op">.</span><span class="nam">add\_argument</span><span class="op">(</span><span class="str">"--batch\_size"</span><span class="op">,</span> <span class="nam">type</span><span class="op">=</span><span class="nam">int</span><span class="op">,</span> <span class="nam">default</span><span class="op">=</span><span class="num">10</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t29" href="#t29">29</a></span><span class="t"> <span class="nam">parser</span><span class="op">.</span><span class="nam">add\_argument</span><span class="op">(</span><span class="str">"--activity\_id"</span><span class="op">,</span> <span class="nam">type</span><span class="op">=</span><span class="nam">int</span><span class="op">,</span> <span class="nam">help</span><span class="op">=</span><span class="str">"Specific activity ID to sync"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t30" href="#t30">30</a></span><span class="t"> <span class="nam">parser</span><span class="op">.</span><span class="nam">add\_argument</span><span class="op">(</span><span class="str">"--start\_date"</span><span class="op">,</span> <span class="nam">type</span><span class="op">=</span><span class="nam">parse\_date</span><span class="op">,</span> <span class="nam">help</span><span class="op">=</span><span class="str">"Start date YYYY-MM-DD"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t31" href="#t31">31</a></span><span class="t"> <span class="nam">parser</span><span class="op">.</span><span class="nam">add\_argument</span><span class="op">(</span><span class="str">"--end\_date"</span><span class="op">,</span> <span class="nam">type</span><span class="op">=</span><span class="nam">parse\_date</span><span class="op">,</span> <span class="nam">help</span><span class="op">=</span><span class="str">"End date YYYY-MM-DD"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t32" href="#t32">32</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t33" href="#t33">33</a></span><span class="t"> <span class="nam">args</span> <span class="op">=</span> <span class="nam">parser</span><span class="op">.</span><span class="nam">parse\_args</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t34" href="#t34">34</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t35" href="#t35">35</a></span><span class="t"> <span class="nam">session</span> <span class="op">=</span> <span class="nam">get\_session</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t36" href="#t36">36</a></span><span class="t"> <span class="key">try</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t37" href="#t37">37</a></span><span class="t"> <span class="key">if</span> <span class="nam">args</span><span class="op">.</span><span class="nam">activity\_id</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t38" href="#t38">38</a></span><span class="t"> <span class="nam">ingest\_specific\_activity</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">args</span><span class="op">.</span><span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">args</span><span class="op">.</span><span class="nam">activity\_id</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t39" href="#t39">39</a></span><span class="t"> <span class="key">elif</span> <span class="nam">args</span><span class="op">.</span><span class="nam">start\_date</span> <span class="key">and</span> <span class="nam">args</span><span class="op">.</span><span class="nam">end\_date</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t40" href="#t40">40</a></span><span class="t"> <span class="nam">ingest\_between\_dates</span><span class="op">(</span><span class="nam">session</span><span class="op">,</span> <span class="nam">args</span><span class="op">.</span><span class="nam">athlete\_id</span><span class="op">,</span> <span class="nam">args</span><span class="op">.</span><span class="nam">start\_date</span><span class="op">,</span> <span class="nam">args</span><span class="op">.</span><span class="nam">end\_date</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t41" href="#t41">41</a></span><span class="t"> <span class="key">else</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t42" href="#t42">42</a></span><span class="t"> <span class="nam">run\_full\_ingestion\_and\_enrichment</span><span class="op">(</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t43" href="#t43">43</a></span><span class="t"> <span class="nam">session</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t44" href="#t44">44</a></span><span class="t"> <span class="nam">args</span><span class="op">.</span><span class="nam">athlete\_id</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t45" href="#t45">45</a></span><span class="t"> <span class="nam">lookback\_days</span><span class="op">=</span><span class="nam">args</span><span class="op">.</span><span class="nam">lookback\_days</span><span class="op">,</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t46" href="#t46">46</a></span><span class="t"> <span class="nam">batch\_size</span><span class="op">=</span><span class="nam">args</span><span class="op">.</span><span class="nam">batch\_size</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t47" href="#t47">47</a></span><span class="t"> <span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t48" href="#t48">48</a></span><span class="t"> <span class="key">except</span> <span class="nam">Exception</span> <span class="key">as</span> <span class="nam">e</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t49" href="#t49">49</a></span><span class="t"> <span class="nam">logger</span><span class="op">.</span><span class="nam">exception</span><span class="op">(</span><span class="str">f"&#10060; Error in main\_pipeline: {e}"</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t50" href="#t50">50</a></span><span class="t"> <span class="nam">sys</span><span class="op">.</span><span class="nam">exit</span><span class="op">(</span><span class="num">1</span><span class="op">)</span> <span class="com"># Exit with error status</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t51" href="#t51">51</a></span><span class="t"> <span class="key">finally</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t52" href="#t52">52</a></span><span class="t"> <span class="nam">session</span><span class="op">.</span><span class="nam">close</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t53" href="#t53">53</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t54" href="#t54">54</a></span><span class="t"> <span class="nam">sys</span><span class="op">.</span><span class="nam">exit</span><span class="op">(</span><span class="num">0</span><span class="op">)</span> <span class="com"># Explicitly exit successfully</span>&nbsp;</span><span class="r"></span></p>  
 <p class="pln"><span class="n"><a id="t55" href="#t55">55</a></span><span class="t">&nbsp;</span><span class="r"></span></p>  
 <p class="run"><span class="n"><a id="t56" href="#t56">56</a></span><span class="t"><span class="key">if</span> <span class="nam">\_\_name\_\_</span> <span class="op">==</span> <span class="str">"\_\_main\_\_"</span><span class="op">:</span>&nbsp;</span><span class="r"></span></p>  
 <p class="mis show\_mis"><span class="n"><a id="t57" href="#t57">57</a></span><span class="t"> <span class="nam">main</span><span class="op">(</span><span class="op">)</span>&nbsp;</span><span class="r"></span></p>  
</main>  
<footer>  
 <div class="content">  
 <p>  
 <a class="nav" href="z\_fa000675cb663943\_\_\_init\_\_\_py.html">&#xab; prev</a> &nbsp; &nbsp;  
 <a class="nav" href="index.html">&Hat; index</a> &nbsp; &nbsp;  
 <a class="nav" href="z\_33ea1954bbe60e2e\_\_\_init\_\_\_py.html">&#xbb; next</a>  
 &nbsp; &nbsp; &nbsp;  
 <a class="nav" href="https://coverage.readthedocs.io/en/7.9.1">coverage.py v7.9.1</a>,  
 created at 2025-06-20 09:53 -0500  
 </p>  
 </div>  
</footer>  
</body>  
</html>

### 📄 migrations\env.py

from logging.config import fileConfig  
  
from sqlalchemy import engine\_from\_config  
from sqlalchemy import pool  
  
from alembic import context  
  
# this is the Alembic Config object, which provides  
# access to the values within the .ini file in use.  
config = context.config  
  
# Interpret the config file for Python logging.  
# This line sets up loggers basically.  
if config.config\_file\_name is not None:  
 fileConfig(config.config\_file\_name)  
  
# add your model's MetaData object here  
# for 'autogenerate' support  
# from myapp import mymodel  
# target\_metadata = mymodel.Base.metadata  
target\_metadata = None  
  
# other values from the config, defined by the needs of env.py,  
# can be acquired:  
# my\_important\_option = config.get\_main\_option("my\_important\_option")  
# ... etc.  
  
  
def run\_migrations\_offline() -> None:  
 """Run migrations in 'offline' mode.  
  
 This configures the context with just a URL  
 and not an Engine, though an Engine is acceptable  
 here as well. By skipping the Engine creation  
 we don't even need a DBAPI to be available.  
  
 Calls to context.execute() here emit the given string to the  
 script output.  
  
 """  
 url = config.get\_main\_option("sqlalchemy.url")  
 context.configure(  
 url=url,  
 target\_metadata=target\_metadata,  
 literal\_binds=True,  
 dialect\_opts={"paramstyle": "named"},  
 )  
  
 with context.begin\_transaction():  
 context.run\_migrations()  
  
  
def run\_migrations\_online() -> None:  
 """Run migrations in 'online' mode.  
  
 In this scenario we need to create an Engine  
 and associate a connection with the context.  
  
 """  
 connectable = engine\_from\_config(  
 config.get\_section(config.config\_ini\_section, {}),  
 prefix="sqlalchemy.",  
 poolclass=pool.NullPool,  
 )  
  
 with connectable.connect() as connection:  
 context.configure(  
 connection=connection, target\_metadata=target\_metadata  
 )  
  
 with context.begin\_transaction():  
 context.run\_migrations()  
  
  
if context.is\_offline\_mode():  
 run\_migrations\_offline()  
else:  
 run\_migrations\_online()

### 📄 pytest\_log.txt

============================= test session starts =============================  
platform win32 -- Python 3.11.8, pytest-8.3.5, pluggy-1.6.0  
rootdir: C:\Users\andre\projects\railway-pg-test  
plugins: cov-6.2.1  
collected 107 items  
  
tests\test\_activity\_dao.py FF..F [ 4%]  
tests\test\_activity\_routes.py ....... [ 11%]  
tests\test\_activity\_service.py ........ [ 18%]  
tests\test\_app.py ..... [ 23%]  
tests\test\_athlete\_dao.py E [ 24%]  
tests\test\_auth.py F... [ 28%]  
tests\test\_auth\_routes.py ...FF.F...... [ 40%]  
tests\test\_enrichment\_with\_splits.py E [ 41%]  
tests\test\_extract\_hr\_zone\_percentages.py .... [ 44%]  
tests\test\_full\_ingestion\_flow.py E [ 45%]  
tests\test\_health.py . [ 46%]  
tests\test\_ingestion\_orchestrator.py ..F.F [ 51%]  
tests\test\_integration\_ingestion.py E [ 52%]  
tests\test\_jwt\_utils.py ........ [ 59%]  
tests\test\_main\_pipeline.py F... [ 63%]  
tests\test\_oauth\_flow.py .F.F [ 67%]  
tests\test\_split\_dao.py E [ 68%]  
tests\test\_split\_upsert\_idempotency.py E [ 69%]  
tests\test\_splits.py .F.F [ 72%]  
tests\test\_strava\_access\_service.py ......... [ 81%]  
tests\test\_sync.py F [ 82%]  
tests\test\_token\_service.py ......FFFFFFFFFFFFF [100%]  
  
=================================== ERRORS ====================================  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ERROR at setup of test\_insert\_and\_get\_athlete \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
self = <sqlalchemy.engine.base.Connection object at 0x000001E8AF319890>  
engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
connection = None, \_has\_events = None, \_allow\_revalidate = True  
\_allow\_autobegin = True  
  
 def \_\_init\_\_(  
 self,  
 engine: Engine,  
 connection: Optional[PoolProxiedConnection] = None,  
 \_has\_events: Optional[bool] = None,  
 \_allow\_revalidate: bool = True,  
 \_allow\_autobegin: bool = True,  
 ):  
 """Construct a new Connection."""  
 self.engine = engine  
 self.dialect = dialect = engine.dialect  
   
 if connection is None:  
 try:  
> self.\_dbapi\_connection = engine.raw\_connection()  
  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E psycopg2.OperationalError: connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
  
The above exception was the direct cause of the following exception:  
  
shared\_engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
  
 @pytest.fixture(scope="function")  
 def sqlalchemy\_session(shared\_engine):  
> connection = shared\_engine.connect()  
  
tests\conftest.py:60:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3273: in connect  
 return self.\_connection\_cls(self)  
venv\Lib\site-packages\sqlalchemy\engine\base.py:147: in \_\_init\_\_  
 Connection.\_handle\_dbapi\_exception\_noconnection(  
venv\Lib\site-packages\sqlalchemy\engine\base.py:2436: in \_handle\_dbapi\_exception\_noconnection  
 raise sqlalchemy\_exception.with\_traceback(exc\_info[2]) from e  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145: in \_\_init\_\_  
 self.\_dbapi\_connection = engine.raw\_connection()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E sqlalchemy.exc.OperationalError: (psycopg2.OperationalError) connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E   
E (Background on this error at: https://sqlalche.me/e/20/e3q8)  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
---------------------------- Captured stdout setup ----------------------------  
[TEST] Using DATABASE\_URL = postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach  
\_\_\_\_\_\_\_\_\_\_\_ ERROR at setup of test\_enrich\_one\_activity\_with\_splits \_\_\_\_\_\_\_\_\_\_\_\_  
  
self = <sqlalchemy.engine.base.Connection object at 0x000001E8AF212C90>  
engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
connection = None, \_has\_events = None, \_allow\_revalidate = True  
\_allow\_autobegin = True  
  
 def \_\_init\_\_(  
 self,  
 engine: Engine,  
 connection: Optional[PoolProxiedConnection] = None,  
 \_has\_events: Optional[bool] = None,  
 \_allow\_revalidate: bool = True,  
 \_allow\_autobegin: bool = True,  
 ):  
 """Construct a new Connection."""  
 self.engine = engine  
 self.dialect = dialect = engine.dialect  
   
 if connection is None:  
 try:  
> self.\_dbapi\_connection = engine.raw\_connection()  
  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E psycopg2.OperationalError: connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
  
The above exception was the direct cause of the following exception:  
  
shared\_engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
  
 @pytest.fixture(scope="function")  
 def sqlalchemy\_session(shared\_engine):  
> connection = shared\_engine.connect()  
  
tests\conftest.py:60:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3273: in connect  
 return self.\_connection\_cls(self)  
venv\Lib\site-packages\sqlalchemy\engine\base.py:147: in \_\_init\_\_  
 Connection.\_handle\_dbapi\_exception\_noconnection(  
venv\Lib\site-packages\sqlalchemy\engine\base.py:2436: in \_handle\_dbapi\_exception\_noconnection  
 raise sqlalchemy\_exception.with\_traceback(exc\_info[2]) from e  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145: in \_\_init\_\_  
 self.\_dbapi\_connection = engine.raw\_connection()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E sqlalchemy.exc.OperationalError: (psycopg2.OperationalError) connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E   
E (Background on this error at: https://sqlalche.me/e/20/e3q8)  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ERROR at setup of test\_run\_full\_ingestion\_flow \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
self = <sqlalchemy.engine.base.Connection object at 0x000001E8AFC327D0>  
engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
connection = None, \_has\_events = None, \_allow\_revalidate = True  
\_allow\_autobegin = True  
  
 def \_\_init\_\_(  
 self,  
 engine: Engine,  
 connection: Optional[PoolProxiedConnection] = None,  
 \_has\_events: Optional[bool] = None,  
 \_allow\_revalidate: bool = True,  
 \_allow\_autobegin: bool = True,  
 ):  
 """Construct a new Connection."""  
 self.engine = engine  
 self.dialect = dialect = engine.dialect  
   
 if connection is None:  
 try:  
> self.\_dbapi\_connection = engine.raw\_connection()  
  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E psycopg2.OperationalError: connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
  
The above exception was the direct cause of the following exception:  
  
test\_session = <sqlalchemy.orm.session.Session object at 0x000001E8AF300650>  
  
 @pytest.fixture(scope="function")  
 def seeded\_token(test\_session):  
 token = Token(  
 athlete\_id=1,  
 access\_token="mock\_access",  
 refresh\_token="mock\_refresh",  
 expires\_at=int((datetime.utcnow() + timedelta(hours=1)).timestamp())  
 )  
 test\_session.add(token)  
> test\_session.commit()  
  
tests\test\_full\_ingestion\_flow.py:27:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\orm\session.py:2032: in commit  
 trans.commit(\_to\_root=True)  
<string>:2: in commit  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1313: in commit  
 self.\_prepare\_impl()  
<string>:2: in \_prepare\_impl  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1288: in \_prepare\_impl  
 self.session.flush()  
venv\Lib\site-packages\sqlalchemy\orm\session.py:4345: in flush  
 self.\_flush(objects)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:4480: in \_flush  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:4441: in \_flush  
 flush\_context.execute()  
venv\Lib\site-packages\sqlalchemy\orm\unitofwork.py:466: in execute  
 rec.execute(self)  
venv\Lib\site-packages\sqlalchemy\orm\unitofwork.py:642: in execute  
 util.preloaded.orm\_persistence.save\_obj(  
venv\Lib\site-packages\sqlalchemy\orm\persistence.py:60: in save\_obj  
 for (  
venv\Lib\site-packages\sqlalchemy\orm\persistence.py:223: in \_organize\_states\_for\_save  
 for state, dict\_, mapper, connection in \_connections\_for\_states(  
venv\Lib\site-packages\sqlalchemy\orm\persistence.py:1753: in \_connections\_for\_states  
 connection = uowtransaction.transaction.connection(base\_mapper)  
<string>:2: in connection  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1039: in connection  
 return self.\_connection\_for\_bind(bind, execution\_options)  
<string>:2: in \_connection\_for\_bind  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1175: in \_connection\_for\_bind  
 conn = self.\_parent.\_connection\_for\_bind(  
<string>:2: in \_connection\_for\_bind  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1189: in \_connection\_for\_bind  
 conn = bind.connect()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3273: in connect  
 return self.\_connection\_cls(self)  
venv\Lib\site-packages\sqlalchemy\engine\base.py:147: in \_\_init\_\_  
 Connection.\_handle\_dbapi\_exception\_noconnection(  
venv\Lib\site-packages\sqlalchemy\engine\base.py:2436: in \_handle\_dbapi\_exception\_noconnection  
 raise sqlalchemy\_exception.with\_traceback(exc\_info[2]) from e  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145: in \_\_init\_\_  
 self.\_dbapi\_connection = engine.raw\_connection()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E sqlalchemy.exc.OperationalError: (psycopg2.OperationalError) connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E   
E (Background on this error at: https://sqlalche.me/e/20/e3q8)  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
\_\_\_\_\_\_\_\_\_ ERROR at setup of test\_ingest\_specific\_activity\_integration \_\_\_\_\_\_\_\_\_  
  
self = <sqlalchemy.engine.base.Connection object at 0x000001E8AF2A7DD0>  
engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
connection = None, \_has\_events = None, \_allow\_revalidate = True  
\_allow\_autobegin = True  
  
 def \_\_init\_\_(  
 self,  
 engine: Engine,  
 connection: Optional[PoolProxiedConnection] = None,  
 \_has\_events: Optional[bool] = None,  
 \_allow\_revalidate: bool = True,  
 \_allow\_autobegin: bool = True,  
 ):  
 """Construct a new Connection."""  
 self.engine = engine  
 self.dialect = dialect = engine.dialect  
   
 if connection is None:  
 try:  
> self.\_dbapi\_connection = engine.raw\_connection()  
  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E psycopg2.OperationalError: connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
  
The above exception was the direct cause of the following exception:  
  
test\_session = <sqlalchemy.orm.session.Session object at 0x000001E8AF2A5E50>  
  
 @pytest.fixture(scope="function")  
 def token\_fixture(test\_session):  
 token = Token(  
 athlete\_id=1,  
 access\_token="test\_token",  
 refresh\_token="test\_refresh",  
 expires\_at=int((datetime.utcnow() + timedelta(hours=1)).timestamp()),  
 )  
 test\_session.add(token)  
> test\_session.commit()  
  
tests\test\_integration\_ingestion.py:27:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\orm\session.py:2032: in commit  
 trans.commit(\_to\_root=True)  
<string>:2: in commit  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1313: in commit  
 self.\_prepare\_impl()  
<string>:2: in \_prepare\_impl  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1288: in \_prepare\_impl  
 self.session.flush()  
venv\Lib\site-packages\sqlalchemy\orm\session.py:4345: in flush  
 self.\_flush(objects)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:4480: in \_flush  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:4441: in \_flush  
 flush\_context.execute()  
venv\Lib\site-packages\sqlalchemy\orm\unitofwork.py:466: in execute  
 rec.execute(self)  
venv\Lib\site-packages\sqlalchemy\orm\unitofwork.py:642: in execute  
 util.preloaded.orm\_persistence.save\_obj(  
venv\Lib\site-packages\sqlalchemy\orm\persistence.py:60: in save\_obj  
 for (  
venv\Lib\site-packages\sqlalchemy\orm\persistence.py:223: in \_organize\_states\_for\_save  
 for state, dict\_, mapper, connection in \_connections\_for\_states(  
venv\Lib\site-packages\sqlalchemy\orm\persistence.py:1753: in \_connections\_for\_states  
 connection = uowtransaction.transaction.connection(base\_mapper)  
<string>:2: in connection  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1039: in connection  
 return self.\_connection\_for\_bind(bind, execution\_options)  
<string>:2: in \_connection\_for\_bind  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1175: in \_connection\_for\_bind  
 conn = self.\_parent.\_connection\_for\_bind(  
<string>:2: in \_connection\_for\_bind  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1189: in \_connection\_for\_bind  
 conn = bind.connect()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3273: in connect  
 return self.\_connection\_cls(self)  
venv\Lib\site-packages\sqlalchemy\engine\base.py:147: in \_\_init\_\_  
 Connection.\_handle\_dbapi\_exception\_noconnection(  
venv\Lib\site-packages\sqlalchemy\engine\base.py:2436: in \_handle\_dbapi\_exception\_noconnection  
 raise sqlalchemy\_exception.with\_traceback(exc\_info[2]) from e  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145: in \_\_init\_\_  
 self.\_dbapi\_connection = engine.raw\_connection()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E sqlalchemy.exc.OperationalError: (psycopg2.OperationalError) connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E   
E (Background on this error at: https://sqlalche.me/e/20/e3q8)  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ERROR at setup of test\_upsert\_splits\_basic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
self = <sqlalchemy.engine.base.Connection object at 0x000001E8AF7F2110>  
engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
connection = None, \_has\_events = None, \_allow\_revalidate = True  
\_allow\_autobegin = True  
  
 def \_\_init\_\_(  
 self,  
 engine: Engine,  
 connection: Optional[PoolProxiedConnection] = None,  
 \_has\_events: Optional[bool] = None,  
 \_allow\_revalidate: bool = True,  
 \_allow\_autobegin: bool = True,  
 ):  
 """Construct a new Connection."""  
 self.engine = engine  
 self.dialect = dialect = engine.dialect  
   
 if connection is None:  
 try:  
> self.\_dbapi\_connection = engine.raw\_connection()  
  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E psycopg2.OperationalError: connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
  
The above exception was the direct cause of the following exception:  
  
shared\_engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
  
 @pytest.fixture(scope="function")  
 def sqlalchemy\_session(shared\_engine):  
> connection = shared\_engine.connect()  
  
tests\conftest.py:60:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3273: in connect  
 return self.\_connection\_cls(self)  
venv\Lib\site-packages\sqlalchemy\engine\base.py:147: in \_\_init\_\_  
 Connection.\_handle\_dbapi\_exception\_noconnection(  
venv\Lib\site-packages\sqlalchemy\engine\base.py:2436: in \_handle\_dbapi\_exception\_noconnection  
 raise sqlalchemy\_exception.with\_traceback(exc\_info[2]) from e  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145: in \_\_init\_\_  
 self.\_dbapi\_connection = engine.raw\_connection()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E sqlalchemy.exc.OperationalError: (psycopg2.OperationalError) connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E   
E (Background on this error at: https://sqlalche.me/e/20/e3q8)  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ERROR at setup of test\_upsert\_splits\_idempotency \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
self = <sqlalchemy.engine.base.Connection object at 0x000001E8B118CF90>  
engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
connection = None, \_has\_events = None, \_allow\_revalidate = True  
\_allow\_autobegin = True  
  
 def \_\_init\_\_(  
 self,  
 engine: Engine,  
 connection: Optional[PoolProxiedConnection] = None,  
 \_has\_events: Optional[bool] = None,  
 \_allow\_revalidate: bool = True,  
 \_allow\_autobegin: bool = True,  
 ):  
 """Construct a new Connection."""  
 self.engine = engine  
 self.dialect = dialect = engine.dialect  
   
 if connection is None:  
 try:  
> self.\_dbapi\_connection = engine.raw\_connection()  
  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E psycopg2.OperationalError: connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
  
The above exception was the direct cause of the following exception:  
  
shared\_engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
  
 @pytest.fixture(scope="function")  
 def sqlalchemy\_session(shared\_engine):  
> connection = shared\_engine.connect()  
  
tests\conftest.py:60:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3273: in connect  
 return self.\_connection\_cls(self)  
venv\Lib\site-packages\sqlalchemy\engine\base.py:147: in \_\_init\_\_  
 Connection.\_handle\_dbapi\_exception\_noconnection(  
venv\Lib\site-packages\sqlalchemy\engine\base.py:2436: in \_handle\_dbapi\_exception\_noconnection  
 raise sqlalchemy\_exception.with\_traceback(exc\_info[2]) from e  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145: in \_\_init\_\_  
 self.\_dbapi\_connection = engine.raw\_connection()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E sqlalchemy.exc.OperationalError: (psycopg2.OperationalError) connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E   
E (Background on this error at: https://sqlalche.me/e/20/e3q8)  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
================================== FAILURES ===================================  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_get\_by\_id\_returns\_activity \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
 def test\_get\_by\_id\_returns\_activity():  
 mock\_session = MagicMock()  
   
 # Setup mocks for the chain: query().filter().first()  
 mock\_query = mock\_session.query  
 mock\_filter = mock\_query.return\_value.filter  
 mock\_first = mock\_filter.return\_value.first  
   
 expected\_activity = Activity(activity\_id=123)  
 mock\_first.return\_value = expected\_activity  
   
> result = ActivityDAO.get\_by\_id(mock\_session, 123)  
E AttributeError: type object 'ActivityDAO' has no attribute 'get\_by\_id'  
  
tests\test\_activity\_dao.py:17: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_get\_by\_id\_returns\_none \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
 def test\_get\_by\_id\_returns\_none():  
 mock\_session = MagicMock()  
 mock\_session.query().filter().first.return\_value = None  
   
> result = ActivityDAO.get\_by\_id(mock\_session, 999)  
E AttributeError: type object 'ActivityDAO' has no attribute 'get\_by\_id'  
  
tests\test\_activity\_dao.py:29: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_upsert\_activities\_multiple\_activities \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
mock\_convert = <MagicMock name='convert\_metrics' id='2098882216464'>  
  
 @patch("src.db.dao.activity\_dao.convert\_metrics")  
 def test\_upsert\_activities\_multiple\_activities(mock\_convert):  
 mock\_session = MagicMock()  
 mock\_convert.return\_value = {  
 "conv\_distance": 100,  
 "conv\_elevation\_feet": 50,  
 "conv\_avg\_speed": 5,  
 "conv\_max\_speed": 10,  
 "conv\_moving\_time": 60,  
 "conv\_elapsed\_time": 65,  
 }  
   
 activities = [  
 {"id": 201, "name": "Ride", "type": "Ride", "distance": 1000, "elapsed\_time": 65, "moving\_time": 60, "total\_elevation\_gain": 15},  
 {"id": 202, "name": "Swim", "type": "Swim", "distance": 500, "elapsed\_time": 35, "moving\_time": 30, "total\_elevation\_gain": 5},  
 ]  
   
 mock\_result = MagicMock()  
 mock\_result.rowcount = 2  
 mock\_session.execute.return\_value = mock\_result  
   
 count = ActivityDAO.upsert\_activities(mock\_session, athlete\_id=99, activities=activities)  
   
> assert count == 2  
E assert 0 == 2  
  
tests\test\_activity\_dao.py:105: AssertionError  
---------------------------- Captured stdout call -----------------------------  
2025-06-26 16:04:25,923 WARNING \u26a0\ufe0f Skipping non-Run activity 201 \u2014 type=Ride\n2025-06-26 16:04:25,923 WARNING \u26a0\ufe0f Skipping non-Run activity 202 \u2014 type=Swim  
------------------------------ Captured log call ------------------------------  
WARNING src.db.dao.activity\_dao:activity\_dao.py:30 \u26a0\ufe0f Skipping non-Run activity 201 \u2014 type=Ride\nWARNING src.db.dao.activity\_dao:activity\_dao.py:30 \u26a0\ufe0f Skipping non-Run activity 202 \u2014 type=Swim  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_login\_refresh\_logout \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
mock\_refresh = <MagicMock name='refresh\_token\_static' id='2098884727568'>  
client = <FlaskClient <Flask 'src.app'>>  
  
 @patch("src.services.token\_service.refresh\_token\_static")  
 def test\_login\_refresh\_logout(mock\_refresh, client):  
 """Test successful login, token refresh using Authorization header, and logout."""  
 mock\_refresh.return\_value = {  
 "access\_token": "mocked\_access",  
 "refresh\_token": "mocked\_refresh",  
 "expires\_at": int((datetime.utcnow() + timedelta(hours=1)).timestamp())  
 }  
   
 # Step 1: Login  
 resp = client.post("/auth/login", json={"username": "admin", "password": "secret"})  
> assert resp.status\_code == 200  
E assert 401 == 200  
E + where 401 = <WrapperTestResponse streamed [401 UNAUTHORIZED]>.status\_code  
  
tests\test\_auth.py:19: AssertionError  
---------------------------- Captured stdout setup ----------------------------  
\u2705 ENTERED create\_app()\n\U0001f4c1 CWD: C:\\Users\\andre\\projects\\railway-pg-test\n\U0001f4c1 Contents of current working dir: ['.coverage', '.dockerignore', '.env', '.env.prod', '.env.test', '.git', '.github', '.gitignore', '.pytest\_cache', '.vscode', 'activity\_ingestion.log', 'alembic', 'alembic.ini', 'app', 'debug\_dumps', 'docker-compose.yml', 'Dockerfile', 'final\_project\_map.docx', 'htmlcov', 'migrations', 'pytest\_log.txt', 'README.md', 'requirements.txt', 'reset\_and\_init\_db.sh', 'run.py', 'src', 'tests', 'test\_enrichment\_sync.py', 'venv', 'wsgi.py', '\_\_pycache\_\_']\n\U0001f30d FLASK\_ENV=testing | IS\_LOCAL=True\nDEBUG ENV VARS:\nDATABASE\_URL=postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\nCRON\_SECRET\_KEY=testcron\nSECRET\_KEY=testsecret\nINTERNAL\_API\_KEY=testinternal\nADMIN\_USER=testadmin\nADMIN\_PASS=testpass\nSTRAVA\_CLIENT\_ID=123456\nSTRAVA\_CLIENT\_SECRET=testsecret\nSTRAVA\_REDIRECT\_URI=http://localhost:5001/auth/callback\n\U0001f510 ADMIN\_USER: testadmin\n\U0001f510 ADMIN\_PASS: testpass\n\U0001f510 STRAVA\_CLIENT\_ID: 123456\n\U0001f510 STRAVA\_CLIENT\_SECRET: testsecret\n\U0001f510 STRAVA\_REDIRECT\_URI: http://localhost:5001/auth/callback\n\U0001f4be CONFIG DATABASE\_URL: postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\n\U0001f4be CONFIG DATABASE\_URL (from app.config): postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\n\u2705 Registered routes:\n /static/<path:filename> -> static\n /auth/login -> auth.admin\_login\n /auth/login -> auth.strava\_login\n /auth/callback -> auth.callback\n /auth/refresh/<int:athlete\_id> -> auth.refresh\_token\n /auth/logout/<int:athlete\_id> -> auth.logout\n /auth/monitor-tokens -> auth.monitor\_tokens\n /admin/admin/ping -> admin.ping\n /sync/enrich/status -> activity.enrich\_status\n /sync/enrich/activity/<int:activity\_id> -> activity.enrich\_single\n /sync/enrich/batch -> activity.enrich\_batch\n /sync/sync/<int:athlete\_id> -> activity.sync\_strava\_to\_db\n /health -> health.health\_check\n /ping -> ping\n /db-check -> db\_check\n /startup -> startup  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_strava\_login\_redirect \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
args = (), keywargs = {'client': <FlaskClient <Flask 'test\_auth\_routes'>>}  
  
 @wraps(func)  
 def patched(\*args, \*\*keywargs):  
> with self.decoration\_helper(patched,  
 args,  
 keywargs) as (newargs, newkeywargs):  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1372:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:137: in \_\_enter\_\_  
 return next(self.gen)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1354: in decoration\_helper  
 arg = exit\_stack.enter\_context(patching)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:517: in enter\_context  
 result = \_enter(cm)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1443: in \_\_enter\_\_  
 original, local = self.get\_original()  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
self = <unittest.mock.\_patch object at 0x000001E8AF0D1D90>  
  
 def get\_original(self):  
 target = self.getter()  
 name = self.attribute  
   
 original = DEFAULT  
 local = False  
   
 try:  
 original = target.\_\_dict\_\_[name]  
 except (AttributeError, KeyError):  
 original = getattr(target, name, DEFAULT)  
 else:  
 local = True  
   
 if name in \_builtins and isinstance(target, ModuleType):  
 self.create = True  
   
 if not self.create and original is DEFAULT:  
> raise AttributeError(  
 "%s does not have the attribute %r" % (target, name)  
 )  
E AttributeError: <module 'src.routes.auth\_routes' from 'C:\\Users\\andre\\projects\\railway-pg-test\\src\\routes\\auth\_routes.py'> does not have the attribute 'get\_authorization\_url'  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1416: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_callback\_success \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
args = (), keywargs = {'client': <FlaskClient <Flask 'test\_auth\_routes'>>}  
  
 @wraps(func)  
 def patched(\*args, \*\*keywargs):  
> with self.decoration\_helper(patched,  
 args,  
 keywargs) as (newargs, newkeywargs):  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1372:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:137: in \_\_enter\_\_  
 return next(self.gen)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1354: in decoration\_helper  
 arg = exit\_stack.enter\_context(patching)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:517: in enter\_context  
 result = \_enter(cm)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1443: in \_\_enter\_\_  
 original, local = self.get\_original()  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
self = <unittest.mock.\_patch object at 0x000001E8AF0D1FD0>  
  
 def get\_original(self):  
 target = self.getter()  
 name = self.attribute  
   
 original = DEFAULT  
 local = False  
   
 try:  
 original = target.\_\_dict\_\_[name]  
 except (AttributeError, KeyError):  
 original = getattr(target, name, DEFAULT)  
 else:  
 local = True  
   
 if name in \_builtins and isinstance(target, ModuleType):  
 self.create = True  
   
 if not self.create and original is DEFAULT:  
> raise AttributeError(  
 "%s does not have the attribute %r" % (target, name)  
 )  
E AttributeError: <module 'src.routes.auth\_routes' from 'C:\\Users\\andre\\projects\\railway-pg-test\\src\\routes\\auth\_routes.py'> does not have the attribute 'store\_tokens\_from\_callback'  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1416: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_callback\_exception \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
args = (), keywargs = {'client': <FlaskClient <Flask 'test\_auth\_routes'>>}  
  
 @wraps(func)  
 def patched(\*args, \*\*keywargs):  
> with self.decoration\_helper(patched,  
 args,  
 keywargs) as (newargs, newkeywargs):  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1372:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:137: in \_\_enter\_\_  
 return next(self.gen)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1354: in decoration\_helper  
 arg = exit\_stack.enter\_context(patching)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:517: in enter\_context  
 result = \_enter(cm)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1443: in \_\_enter\_\_  
 original, local = self.get\_original()  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
self = <unittest.mock.\_patch object at 0x000001E8AF0D2290>  
  
 def get\_original(self):  
 target = self.getter()  
 name = self.attribute  
   
 original = DEFAULT  
 local = False  
   
 try:  
 original = target.\_\_dict\_\_[name]  
 except (AttributeError, KeyError):  
 original = getattr(target, name, DEFAULT)  
 else:  
 local = True  
   
 if name in \_builtins and isinstance(target, ModuleType):  
 self.create = True  
   
 if not self.create and original is DEFAULT:  
> raise AttributeError(  
 "%s does not have the attribute %r" % (target, name)  
 )  
E AttributeError: <module 'src.routes.auth\_routes' from 'C:\\Users\\andre\\projects\\railway-pg-test\\src\\routes\\auth\_routes.py'> does not have the attribute 'store\_tokens\_from\_callback'  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1416: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_ingest\_between\_dates\_success \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
mock\_service = <MagicMock name='ActivityIngestionService' id='2098882089360'>  
mock\_upsert = <MagicMock name='upsert\_activities' id='2098891337104'>  
mock\_enrich = <MagicMock name='enrich\_one\_activity\_with\_refresh' id='2098891339408'>  
session = <MagicMock id='2098888072016'>  
  
 @patch("src.services.ingestion\_orchestrator\_service.enrich\_one\_activity\_with\_refresh")  
 @patch("src.services.ingestion\_orchestrator\_service.ActivityDAO.upsert\_activities")  
 @patch("src.services.ingestion\_orchestrator\_service.ActivityIngestionService")  
 def test\_ingest\_between\_dates\_success(mock\_service, mock\_upsert, mock\_enrich, session):  
 athlete\_id = 123  
 start\_date = datetime(2025, 1, 1)  
 end\_date = datetime(2025, 1, 3)  
   
 mock\_service\_instance = mock\_service.return\_value  
 mock\_activities = [{"id": 1, "name": "A1"}, {"id": 2, "name": "A2"}]  
 mock\_service\_instance.client.get\_activities.return\_value = mock\_activities  
   
 mock\_upsert.return\_value = 2  
 mock\_enrich.return\_value = None  
   
 result = ingest\_between\_dates(session, athlete\_id, start\_date, end\_date, batch\_size=1)  
   
 mock\_service\_instance.client.get\_activities.assert\_called\_once()  
> mock\_upsert.assert\_called\_once\_with(session, athlete\_id, mock\_activities)  
  
tests\test\_ingestion\_orchestrator.py:69:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
self = <MagicMock name='upsert\_activities' id='2098891337104'>  
args = (<MagicMock id='2098888072016'>, 123, [{'id': 1, 'name': 'A1'}, {'id': 2, 'name': 'A2'}])  
kwargs = {}  
msg = "Expected 'upsert\_activities' to be called once. Called 0 times."  
  
 def assert\_called\_once\_with(self, /, \*args, \*\*kwargs):  
 """assert that the mock was called exactly once and that that call was  
 with the specified arguments."""  
 if not self.call\_count == 1:  
 msg = ("Expected '%s' to be called once. Called %s times.%s"  
 % (self.\_mock\_name or 'mock',  
 self.call\_count,  
 self.\_calls\_repr()))  
> raise AssertionError(msg)  
E AssertionError: Expected 'upsert\_activities' to be called once. Called 0 times.  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:950: AssertionError  
---------------------------- Captured stdout call -----------------------------  
2025-06-26 16:04:42,535 INFO \u23f3 Ingesting activities for athlete 123 between 2025-01-01 00:00:00 and 2025-01-03 00:00:00\n2025-06-26 16:04:42,535 WARNING No Run activities found between dates for athlete 123  
------------------------------ Captured log call ------------------------------  
INFO src.services.ingestion\_orchestrator\_service:ingestion\_orchestrator\_service.py:104 \u23f3 Ingesting activities for athlete 123 between 2025-01-01 00:00:00 and 2025-01-03 00:00:00\nWARNING src.services.ingestion\_orchestrator\_service:ingestion\_orchestrator\_service.py:116 No Run activities found between dates for athlete 123  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_ingest\_between\_dates\_enrichment\_failure \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
mock\_service = <MagicMock name='ActivityIngestionService' id='2098882766288'>  
mock\_upsert = <MagicMock name='upsert\_activities' id='2098882757328'>  
mock\_enrich = <MagicMock name='enrich\_one\_activity\_with\_refresh' id='2098882771600'>  
session = <MagicMock id='2098884492880'>  
  
 @patch("src.services.ingestion\_orchestrator\_service.enrich\_one\_activity\_with\_refresh")  
 @patch("src.services.ingestion\_orchestrator\_service.ActivityDAO.upsert\_activities")  
 @patch("src.services.ingestion\_orchestrator\_service.ActivityIngestionService")  
 def test\_ingest\_between\_dates\_enrichment\_failure(mock\_service, mock\_upsert, mock\_enrich, session):  
 athlete\_id = 123  
 start\_date = datetime(2025, 1, 1)  
 end\_date = datetime(2025, 1, 3)  
   
 mock\_service\_instance = mock\_service.return\_value  
 activities = [{"id": 1, "name": "A1"}, {"id": 2, "name": "A2"}]  
 mock\_service\_instance.client.get\_activities.return\_value = activities  
   
 mock\_upsert.return\_value = 2  
   
 def enrich\_side\_effect(sess, ath\_id, act\_id):  
 if act\_id == 2:  
 raise Exception("Enrich error")  
 return None  
   
 mock\_enrich.side\_effect = enrich\_side\_effect  
   
> with pytest.raises(Exception) as excinfo:  
E Failed: DID NOT RAISE <class 'Exception'>  
  
tests\test\_ingestion\_orchestrator.py:110: Failed  
---------------------------- Captured stdout call -----------------------------  
2025-06-26 16:04:42,566 INFO \u23f3 Ingesting activities for athlete 123 between 2025-01-01 00:00:00 and 2025-01-03 00:00:00\n2025-06-26 16:04:42,566 WARNING No Run activities found between dates for athlete 123  
------------------------------ Captured log call ------------------------------  
INFO src.services.ingestion\_orchestrator\_service:ingestion\_orchestrator\_service.py:104 \u23f3 Ingesting activities for athlete 123 between 2025-01-01 00:00:00 and 2025-01-03 00:00:00\nWARNING src.services.ingestion\_orchestrator\_service:ingestion\_orchestrator\_service.py:116 No Run activities found between dates for athlete 123  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_main\_pipeline\_calls\_full\_ingestion \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
monkeypatch = <\_pytest.monkeypatch.MonkeyPatch object at 0x000001E8B1384E90>  
  
 def test\_main\_pipeline\_calls\_full\_ingestion(monkeypatch):  
 test\_args = ["main\_pipeline.py", "--athlete\_id", "123"]  
 monkeypatch.setattr("sys.argv", test\_args)  
   
 mock\_session = MagicMock()  
 mock\_ingestion = patch("src.scripts.main\_pipeline.run\_full\_ingestion\_and\_enrichment").start()  
 patch("src.scripts.main\_pipeline.get\_session", return\_value=mock\_session).start()  
   
 with pytest.raises(SystemExit):  
 main\_pipeline.main()  
   
 # \u2705 Allow flexibility with kwargs  
> mock\_ingestion.assert\_called\_once()  
  
tests\test\_main\_pipeline.py:17:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
self = <MagicMock name='run\_full\_ingestion\_and\_enrichment' id='2098917223696'>  
  
 def assert\_called\_once(self):  
 """assert that the mock was called only once.  
 """  
 if not self.call\_count == 1:  
 msg = ("Expected '%s' to have been called once. Called %s times.%s"  
 % (self.\_mock\_name or 'mock',  
 self.call\_count,  
 self.\_calls\_repr()))  
> raise AssertionError(msg)  
E AssertionError: Expected 'run\_full\_ingestion\_and\_enrichment' to have been called once. Called 0 times.  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:918: AssertionError  
---------------------------- Captured stdout call -----------------------------  
\u2699\ufe0f FLASK\_ENV = testing\n\u2699\ufe0f config.DATABASE\_URL = postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach  
------------------------------ Captured log call ------------------------------  
ERROR src.scripts.main\_pipeline:main\_pipeline.py:108 \u274c Pipeline failed: '<=' not supported between instances of 'MagicMock' and 'float'\nTraceback (most recent call last):\n File "C:\\Users\\andre\\projects\\railway-pg-test\\src\\scripts\\main\_pipeline.py", line 105, in main\n run\_for\_athlete(session, args.athlete\_id, args)\n File "C:\\Users\\andre\\projects\\railway-pg-test\\src\\scripts\\main\_pipeline.py", line 58, in run\_for\_athlete\n refresh\_token\_if\_expired(session, athlete\_id)\n File "C:\\Users\\andre\\projects\\railway-pg-test\\src\\services\\token\_service.py", line 64, in refresh\_token\_if\_expired\n if token.expires\_at <= now:\n ^^^^^^^^^^^^^^^^^^^^^^^\nTypeError: '<=' not supported between instances of 'MagicMock' and 'float'  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_oauth\_callback\_strava\_http\_error \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
mock\_post = <MagicMock name='post' id='2098884749648'>  
client = <FlaskClient <Flask 'src.app'>>  
  
 @patch("requests.post")  
 def test\_oauth\_callback\_strava\_http\_error(mock\_post, client):  
 mock\_response = Mock()  
 mock\_response.raise\_for\_status.side\_effect = requests.exceptions.HTTPError("Strava error")  
 mock\_response.text = "Bad Request"  
 mock\_post.return\_value = mock\_response  
   
 resp = client.get("/auth/callback?code=badcode")  
> assert resp.status\_code == 502  
E assert 500 == 502  
E + where 500 = <WrapperTestResponse streamed [500 INTERNAL SERVER ERROR]>.status\_code  
  
tests\test\_oauth\_flow.py:19: AssertionError  
---------------------------- Captured stdout setup ----------------------------  
\u2705 ENTERED create\_app()\n\U0001f4c1 CWD: C:\\Users\\andre\\projects\\railway-pg-test\n\U0001f4c1 Contents of current working dir: ['.coverage', '.dockerignore', '.env', '.env.prod', '.env.test', '.git', '.github', '.gitignore', '.pytest\_cache', '.vscode', 'activity\_ingestion.log', 'alembic', 'alembic.ini', 'app', 'debug\_dumps', 'docker-compose.yml', 'Dockerfile', 'final\_project\_map.docx', 'htmlcov', 'migrations', 'pytest\_log.txt', 'README.md', 'requirements.txt', 'reset\_and\_init\_db.sh', 'run.py', 'src', 'tests', 'test\_enrichment\_sync.py', 'venv', 'wsgi.py', '\_\_pycache\_\_']\n\U0001f30d FLASK\_ENV=testing | IS\_LOCAL=True\nDEBUG ENV VARS:\nDATABASE\_URL=postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\nCRON\_SECRET\_KEY=testcron\nSECRET\_KEY=testsecret\nINTERNAL\_API\_KEY=testinternal\nADMIN\_USER=testadmin\nADMIN\_PASS=testpass\nSTRAVA\_CLIENT\_ID=123456\nSTRAVA\_CLIENT\_SECRET=testsecret\nSTRAVA\_REDIRECT\_URI=http://localhost:5001/auth/callback\n\U0001f510 ADMIN\_USER: testadmin\n\U0001f510 ADMIN\_PASS: testpass\n\U0001f510 STRAVA\_CLIENT\_ID: 123456\n\U0001f510 STRAVA\_CLIENT\_SECRET: testsecret\n\U0001f510 STRAVA\_REDIRECT\_URI: http://localhost:5001/auth/callback\n\U0001f4be CONFIG DATABASE\_URL: postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\n\U0001f4be CONFIG DATABASE\_URL (from app.config): postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\n\u2705 Registered routes:\n /static/<path:filename> -> static\n /auth/login -> auth.admin\_login\n /auth/login -> auth.strava\_login\n /auth/callback -> auth.callback\n /auth/refresh/<int:athlete\_id> -> auth.refresh\_token\n /auth/logout/<int:athlete\_id> -> auth.logout\n /auth/monitor-tokens -> auth.monitor\_tokens\n /admin/admin/ping -> admin.ping\n /sync/enrich/status -> activity.enrich\_status\n /sync/enrich/activity/<int:activity\_id> -> activity.enrich\_single\n /sync/enrich/batch -> activity.enrich\_batch\n /sync/sync/<int:athlete\_id> -> activity.sync\_strava\_to\_db\n /health -> health.health\_check\n /ping -> ping\n /db-check -> db\_check\n /startup -> startup  
---------------------------- Captured stdout call -----------------------------  
\u27a1\ufe0f Received OAuth code: badcode\n\U0001f501 Exchanging code for tokens: badcode\n\U0001f525 Callback error: Strava error  
---------------------------- Captured stderr call -----------------------------  
Traceback (most recent call last):  
 File "C:\Users\andre\projects\railway-pg-test\src\routes\auth\_routes.py", line 87, in callback  
 athlete\_id = store\_tokens\_from\_callback(code, session)  
 ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^  
 File "C:\Users\andre\projects\railway-pg-test\src\services\token\_service.py", line 92, in store\_tokens\_from\_callback  
 response.raise\_for\_status()  
 File "C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py", line 1124, in \_\_call\_\_  
 return self.\_mock\_call(\*args, \*\*kwargs)  
 ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^  
 File "C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py", line 1128, in \_mock\_call  
 return self.\_execute\_mock\_call(\*args, \*\*kwargs)  
 ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^  
 File "C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py", line 1183, in \_execute\_mock\_call  
 raise effect  
requests.exceptions.HTTPError: Strava error  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_oauth\_callback\_missing\_env \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
monkeypatch = <\_pytest.monkeypatch.MonkeyPatch object at 0x000001E8AFD18C90>  
client = <FlaskClient <Flask 'src.app'>>  
  
 def test\_oauth\_callback\_missing\_env(monkeypatch, client):  
 monkeypatch.delenv("STRAVA\_CLIENT\_ID", raising=False)  
 monkeypatch.delenv("STRAVA\_CLIENT\_SECRET", raising=False)  
 monkeypatch.delenv("REDIRECT\_URI", raising=False)  
   
 resp = client.get("/auth/callback?code=fakecode")  
> assert resp.status\_code == 502  
E assert 500 == 502  
E + where 500 = <WrapperTestResponse streamed [500 INTERNAL SERVER ERROR]>.status\_code  
  
tests\test\_oauth\_flow.py:39: AssertionError  
---------------------------- Captured stdout setup ----------------------------  
\u2705 ENTERED create\_app()\n\U0001f4c1 CWD: C:\\Users\\andre\\projects\\railway-pg-test\n\U0001f4c1 Contents of current working dir: ['.coverage', '.dockerignore', '.env', '.env.prod', '.env.test', '.git', '.github', '.gitignore', '.pytest\_cache', '.vscode', 'activity\_ingestion.log', 'alembic', 'alembic.ini', 'app', 'debug\_dumps', 'docker-compose.yml', 'Dockerfile', 'final\_project\_map.docx', 'htmlcov', 'migrations', 'pytest\_log.txt', 'README.md', 'requirements.txt', 'reset\_and\_init\_db.sh', 'run.py', 'src', 'tests', 'test\_enrichment\_sync.py', 'venv', 'wsgi.py', '\_\_pycache\_\_']\n\U0001f30d FLASK\_ENV=testing | IS\_LOCAL=True\nDEBUG ENV VARS:\nDATABASE\_URL=postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\nCRON\_SECRET\_KEY=testcron\nSECRET\_KEY=testsecret\nINTERNAL\_API\_KEY=testinternal\nADMIN\_USER=testadmin\nADMIN\_PASS=testpass\nSTRAVA\_CLIENT\_ID=123456\nSTRAVA\_CLIENT\_SECRET=testsecret\nSTRAVA\_REDIRECT\_URI=http://localhost:5001/auth/callback\n\U0001f510 ADMIN\_USER: testadmin\n\U0001f510 ADMIN\_PASS: testpass\n\U0001f510 STRAVA\_CLIENT\_ID: 123456\n\U0001f510 STRAVA\_CLIENT\_SECRET: testsecret\n\U0001f510 STRAVA\_REDIRECT\_URI: http://localhost:5001/auth/callback\n\U0001f4be CONFIG DATABASE\_URL: postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\n\U0001f4be CONFIG DATABASE\_URL (from app.config): postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\n\u2705 Registered routes:\n /static/<path:filename> -> static\n /auth/login -> auth.admin\_login\n /auth/login -> auth.strava\_login\n /auth/callback -> auth.callback\n /auth/refresh/<int:athlete\_id> -> auth.refresh\_token\n /auth/logout/<int:athlete\_id> -> auth.logout\n /auth/monitor-tokens -> auth.monitor\_tokens\n /admin/admin/ping -> admin.ping\n /sync/enrich/status -> activity.enrich\_status\n /sync/enrich/activity/<int:activity\_id> -> activity.enrich\_single\n /sync/enrich/batch -> activity.enrich\_batch\n /sync/sync/<int:athlete\_id> -> activity.sync\_strava\_to\_db\n /health -> health.health\_check\n /ping -> ping\n /db-check -> db\_check\n /startup -> startup  
---------------------------- Captured stdout call -----------------------------  
\u27a1\ufe0f Received OAuth code: fakecode\n\U0001f501 Exchanging code for tokens: fakecode\n\U0001f525 Callback error: 401 Client Error: Unauthorized for url: https://www.strava.com/api/v3/oauth/token  
---------------------------- Captured stderr call -----------------------------  
Traceback (most recent call last):  
 File "C:\Users\andre\projects\railway-pg-test\src\routes\auth\_routes.py", line 87, in callback  
 athlete\_id = store\_tokens\_from\_callback(code, session)  
 ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^  
 File "C:\Users\andre\projects\railway-pg-test\src\services\token\_service.py", line 92, in store\_tokens\_from\_callback  
 response.raise\_for\_status()  
 File "C:\Users\andre\projects\railway-pg-test\venv\Lib\site-packages\requests\models.py", line 1021, in raise\_for\_status  
 raise HTTPError(http\_error\_msg, response=self)  
requests.exceptions.HTTPError: 401 Client Error: Unauthorized for url: https://www.strava.com/api/v3/oauth/token  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_upsert\_inserts\_and\_updates \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
self = <sqlalchemy.engine.base.Connection object at 0x000001E8AF02F950>  
engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
connection = None, \_has\_events = None, \_allow\_revalidate = True  
\_allow\_autobegin = True  
  
 def \_\_init\_\_(  
 self,  
 engine: Engine,  
 connection: Optional[PoolProxiedConnection] = None,  
 \_has\_events: Optional[bool] = None,  
 \_allow\_revalidate: bool = True,  
 \_allow\_autobegin: bool = True,  
 ):  
 """Construct a new Connection."""  
 self.engine = engine  
 self.dialect = dialect = engine.dialect  
   
 if connection is None:  
 try:  
> self.\_dbapi\_connection = engine.raw\_connection()  
  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E psycopg2.OperationalError: connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
  
The above exception was the direct cause of the following exception:  
  
session = <sqlalchemy.orm.session.Session object at 0x000001E8AF2239D0>  
  
 def test\_upsert\_inserts\_and\_updates(session):  
 # Delete existing activity if present to avoid PK conflict  
> existing = session.query(Activity).filter\_by(activity\_id=1).first()  
  
tests\test\_splits.py:39:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\orm\query.py:2759: in first  
 return self.limit(1).\_iter().first() # type: ignore  
venv\Lib\site-packages\sqlalchemy\orm\query.py:2857: in \_iter  
 result: Union[ScalarResult[\_T], Result[\_T]] = self.session.execute(  
venv\Lib\site-packages\sqlalchemy\orm\session.py:2365: in execute  
 return self.\_execute\_internal(  
venv\Lib\site-packages\sqlalchemy\orm\session.py:2241: in \_execute\_internal  
 conn = self.\_connection\_for\_bind(bind)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:2110: in \_connection\_for\_bind  
 return trans.\_connection\_for\_bind(engine, execution\_options)  
<string>:2: in \_connection\_for\_bind  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1189: in \_connection\_for\_bind  
 conn = bind.connect()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3273: in connect  
 return self.\_connection\_cls(self)  
venv\Lib\site-packages\sqlalchemy\engine\base.py:147: in \_\_init\_\_  
 Connection.\_handle\_dbapi\_exception\_noconnection(  
venv\Lib\site-packages\sqlalchemy\engine\base.py:2436: in \_handle\_dbapi\_exception\_noconnection  
 raise sqlalchemy\_exception.with\_traceback(exc\_info[2]) from e  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145: in \_\_init\_\_  
 self.\_dbapi\_connection = engine.raw\_connection()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E sqlalchemy.exc.OperationalError: (psycopg2.OperationalError) connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E   
E (Background on this error at: https://sqlalche.me/e/20/e3q8)  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_unique\_constraint \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
self = <sqlalchemy.engine.base.Connection object at 0x000001E8B14D4110>  
engine = Engine(postgresql+psycopg2://smartcoach:\*\*\*@localhost:15432/smartcoach)  
connection = None, \_has\_events = None, \_allow\_revalidate = True  
\_allow\_autobegin = True  
  
 def \_\_init\_\_(  
 self,  
 engine: Engine,  
 connection: Optional[PoolProxiedConnection] = None,  
 \_has\_events: Optional[bool] = None,  
 \_allow\_revalidate: bool = True,  
 \_allow\_autobegin: bool = True,  
 ):  
 """Construct a new Connection."""  
 self.engine = engine  
 self.dialect = dialect = engine.dialect  
   
 if connection is None:  
 try:  
> self.\_dbapi\_connection = engine.raw\_connection()  
  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E psycopg2.OperationalError: connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
  
The above exception was the direct cause of the following exception:  
  
session = <sqlalchemy.orm.session.Session object at 0x000001E8AFBA9390>  
  
 def test\_unique\_constraint(session):  
> existing = session.query(Activity).filter\_by(activity\_id=2).first()  
  
tests\test\_splits.py:63:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
venv\Lib\site-packages\sqlalchemy\orm\query.py:2759: in first  
 return self.limit(1).\_iter().first() # type: ignore  
venv\Lib\site-packages\sqlalchemy\orm\query.py:2857: in \_iter  
 result: Union[ScalarResult[\_T], Result[\_T]] = self.session.execute(  
venv\Lib\site-packages\sqlalchemy\orm\session.py:2365: in execute  
 return self.\_execute\_internal(  
venv\Lib\site-packages\sqlalchemy\orm\session.py:2241: in \_execute\_internal  
 conn = self.\_connection\_for\_bind(bind)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:2110: in \_connection\_for\_bind  
 return trans.\_connection\_for\_bind(engine, execution\_options)  
<string>:2: in \_connection\_for\_bind  
 ???  
venv\Lib\site-packages\sqlalchemy\orm\state\_changes.py:139: in \_go  
 ret\_value = fn(self, \*arg, \*\*kw)  
venv\Lib\site-packages\sqlalchemy\orm\session.py:1189: in \_connection\_for\_bind  
 conn = bind.connect()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3273: in connect  
 return self.\_connection\_cls(self)  
venv\Lib\site-packages\sqlalchemy\engine\base.py:147: in \_\_init\_\_  
 Connection.\_handle\_dbapi\_exception\_noconnection(  
venv\Lib\site-packages\sqlalchemy\engine\base.py:2436: in \_handle\_dbapi\_exception\_noconnection  
 raise sqlalchemy\_exception.with\_traceback(exc\_info[2]) from e  
venv\Lib\site-packages\sqlalchemy\engine\base.py:145: in \_\_init\_\_  
 self.\_dbapi\_connection = engine.raw\_connection()  
venv\Lib\site-packages\sqlalchemy\engine\base.py:3297: in raw\_connection  
 return self.pool.connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:449: in connect  
 return \_ConnectionFairy.\_checkout(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:1264: in \_checkout  
 fairy = \_ConnectionRecord.checkout(pool)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:713: in checkout  
 rec = pool.\_do\_get()  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:179: in \_do\_get  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\impl.py:177: in \_do\_get  
 return self.\_create\_connection()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:390: in \_create\_connection  
 return \_ConnectionRecord(self)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:675: in \_\_init\_\_  
 self.\_\_connect()  
venv\Lib\site-packages\sqlalchemy\pool\base.py:901: in \_\_connect  
 with util.safe\_reraise():  
venv\Lib\site-packages\sqlalchemy\util\langhelpers.py:224: in \_\_exit\_\_  
 raise exc\_value.with\_traceback(exc\_tb)  
venv\Lib\site-packages\sqlalchemy\pool\base.py:897: in \_\_connect  
 self.dbapi\_connection = connection = pool.\_invoke\_creator(self)  
venv\Lib\site-packages\sqlalchemy\engine\create.py:646: in connect  
 return dialect.connect(\*cargs, \*\*cparams)  
venv\Lib\site-packages\sqlalchemy\engine\default.py:625: in connect  
 return self.loaded\_dbapi.connect(\*cargs, \*\*cparams) # type: ignore[no-any-return] # NOQA: E501  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
dsn = 'host=localhost dbname=smartcoach user=smartcoach password=devpass port=15432'  
connection\_factory = None, cursor\_factory = None  
kwargs = {'dbname': 'smartcoach', 'host': 'localhost', 'password': 'devpass', 'port': 15432, ...}  
kwasync = {}  
  
 def connect(dsn=None, connection\_factory=None, cursor\_factory=None, \*\*kwargs):  
 """  
 Create a new database connection.  
   
 The connection parameters can be specified as a string:  
   
 conn = psycopg2.connect("dbname=test user=postgres password=secret")  
   
 or using a set of keyword arguments:  
   
 conn = psycopg2.connect(database="test", user="postgres", password="secret")  
   
 Or as a mix of both. The basic connection parameters are:  
   
 - \*dbname\*: the database name  
 - \*database\*: the database name (only as keyword argument)  
 - \*user\*: user name used to authenticate  
 - \*password\*: password used to authenticate  
 - \*host\*: database host address (defaults to UNIX socket if not provided)  
 - \*port\*: connection port number (defaults to 5432 if not provided)  
   
 Using the \*connection\_factory\* parameter a different class or connections  
 factory can be specified. It should be a callable object taking a dsn  
 argument.  
   
 Using the \*cursor\_factory\* parameter, a new default cursor factory will be  
 used by cursor().  
   
 Using \*async\*=True an asynchronous connection will be created. \*async\_\* is  
 a valid alias (for Python versions where ``async`` is a keyword).  
   
 Any other keyword parameter will be passed to the underlying client  
 library: the list of supported parameters depends on the library version.  
   
 """  
 kwasync = {}  
 if 'async' in kwargs:  
 kwasync['async'] = kwargs.pop('async')  
 if 'async\_' in kwargs:  
 kwasync['async\_'] = kwargs.pop('async\_')  
   
 dsn = \_ext.make\_dsn(dsn, \*\*kwargs)  
> conn = \_connect(dsn, connection\_factory=connection\_factory, \*\*kwasync)  
E sqlalchemy.exc.OperationalError: (psycopg2.OperationalError) connection to server at "localhost" (::1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E connection to server at "localhost" (127.0.0.1), port 15432 failed: Connection refused (0x0000274D/10061)  
E Is the server running on that host and accepting TCP/IP connections?  
E   
E (Background on this error at: https://sqlalche.me/e/20/e3q8)  
  
venv\Lib\site-packages\psycopg2\\_\_init\_\_.py:122: OperationalError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_sync\_success \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
mock\_ingestor = <MagicMock name='ActivityIngestionService' id='2098888383184'>  
mock\_enrich = <MagicMock name='run\_enrichment\_batch' id='2098888378320'>  
mock\_token = <MagicMock name='get\_valid\_token' id='2098888390544'>  
mock\_strava = <MagicMock name='StravaClient' id='2098887001360'>  
client = <FlaskClient <Flask 'src.app'>>  
  
 @patch("src.services.activity\_service.StravaClient")  
 @patch("src.services.activity\_service.get\_valid\_token", return\_value="fake-token")  
 @patch("src.services.activity\_service.run\_enrichment\_batch", return\_value=1)  
 @patch("src.routes.activity\_routes.ActivityIngestionService") # \u2705 Patch from where it's used  
 def test\_sync\_success(mock\_ingestor, mock\_enrich, mock\_token, mock\_strava, client):  
 instance = mock\_ingestor.return\_value  
 instance.ingest\_recent.return\_value = 5  
 mock\_strava.return\_value.get\_activities.return\_value = []  
   
 resp = client.get("/sync/sync/123?key=devkey123")  
> assert resp.status\_code == 200  
E assert 401 == 200  
E + where 401 = <WrapperTestResponse streamed [401 UNAUTHORIZED]>.status\_code  
  
tests\test\_sync.py:13: AssertionError  
---------------------------- Captured stdout setup ----------------------------  
\u2705 ENTERED create\_app()\n\U0001f4c1 CWD: C:\\Users\\andre\\projects\\railway-pg-test\n\U0001f4c1 Contents of current working dir: ['.coverage', '.dockerignore', '.env', '.env.prod', '.env.test', '.git', '.github', '.gitignore', '.pytest\_cache', '.vscode', 'activity\_ingestion.log', 'alembic', 'alembic.ini', 'app', 'debug\_dumps', 'docker-compose.yml', 'Dockerfile', 'final\_project\_map.docx', 'htmlcov', 'migrations', 'pytest\_log.txt', 'README.md', 'requirements.txt', 'reset\_and\_init\_db.sh', 'run.py', 'src', 'tests', 'test\_enrichment\_sync.py', 'venv', 'wsgi.py', '\_\_pycache\_\_']\n\U0001f30d FLASK\_ENV=testing | IS\_LOCAL=True\nDEBUG ENV VARS:\nDATABASE\_URL=postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\nCRON\_SECRET\_KEY=testcron\nSECRET\_KEY=testsecret\nINTERNAL\_API\_KEY=testinternal\nADMIN\_USER=testadmin\nADMIN\_PASS=testpass\nSTRAVA\_CLIENT\_ID=123456\nSTRAVA\_CLIENT\_SECRET=testsecret\nSTRAVA\_REDIRECT\_URI=http://localhost:5001/auth/callback\n\U0001f510 ADMIN\_USER: testadmin\n\U0001f510 ADMIN\_PASS: testpass\n\U0001f510 STRAVA\_CLIENT\_ID: 123456\n\U0001f510 STRAVA\_CLIENT\_SECRET: testsecret\n\U0001f510 STRAVA\_REDIRECT\_URI: http://localhost:5001/auth/callback\n\U0001f4be CONFIG DATABASE\_URL: postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\n\U0001f4be CONFIG DATABASE\_URL (from app.config): postgresql+psycopg2://smartcoach:devpass@localhost:15432/smartcoach\n\u2705 Registered routes:\n /static/<path:filename> -> static\n /auth/login -> auth.admin\_login\n /auth/login -> auth.strava\_login\n /auth/callback -> auth.callback\n /auth/refresh/<int:athlete\_id> -> auth.refresh\_token\n /auth/logout/<int:athlete\_id> -> auth.logout\n /auth/monitor-tokens -> auth.monitor\_tokens\n /admin/admin/ping -> admin.ping\n /sync/enrich/status -> activity.enrich\_status\n /sync/enrich/activity/<int:activity\_id> -> activity.enrich\_single\n /sync/enrich/batch -> activity.enrich\_batch\n /sync/sync/<int:athlete\_id> -> activity.sync\_strava\_to\_db\n /health -> health.health\_check\n /ping -> ping\n /db-check -> db\_check\n /startup -> startup  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_exchange\_code\_for\_token\_success \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
mock\_post = <MagicMock name='post' id='2098884707408'>  
  
 @patch("src.services.token\_service.requests.post")  
 def test\_exchange\_code\_for\_token\_success(mock\_post):  
 mock\_resp = MagicMock(spec=Response)  
 mock\_resp.status\_code = 200  
 mock\_resp.json.return\_value = {"access\_token": "access", "refresh\_token": "refresh", "expires\_at": 12345}  
 mock\_post.return\_value = mock\_resp  
   
> tokens = token\_service.exchange\_code\_for\_token("dummy\_code")  
E AttributeError: module 'src.services.token\_service' has no attribute 'exchange\_code\_for\_token'  
  
tests\test\_token\_service.py:90: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_refresh\_token\_if\_expired\_true \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
mock\_refresh\_access = <MagicMock name='refresh\_access\_token' id='2098915550032'>  
mock\_get\_tokens = <MagicMock name='get\_tokens\_sa' id='2098915542544'>  
  
 @patch("src.services.token\_service.get\_tokens\_sa")  
 @patch("src.services.token\_service.refresh\_access\_token")  
 def test\_refresh\_token\_if\_expired\_true(mock\_refresh\_access, mock\_get\_tokens):  
 mock\_session = MagicMock()  
 athlete\_id = 123  
 mock\_get\_tokens.return\_value = {"expires\_at": 1}  
 mock\_refresh\_access.return\_value = {"access\_token": "new\_access"}  
> result = token\_service.refresh\_token\_if\_expired(mock\_session, athlete\_id)  
  
tests\test\_token\_service.py:102:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
session = <MagicMock id='2098915556560'>, athlete\_id = 123  
  
 def refresh\_token\_if\_expired(session, athlete\_id):  
 token = session.query(Token).filter\_by(athlete\_id=athlete\_id).first()  
 if not token:  
 raise ValueError(f"No token found for athlete ID {athlete\_id}")  
   
 now = datetime.utcnow().timestamp()  
> if token.expires\_at <= now:  
E TypeError: '<=' not supported between instances of 'MagicMock' and 'float'  
  
src\services\token\_service.py:64: TypeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_refresh\_token\_if\_expired\_false \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
mock\_get\_tokens = <MagicMock name='get\_tokens\_sa' id='2098890158160'>  
  
 @patch("src.services.token\_service.get\_tokens\_sa")  
 def test\_refresh\_token\_if\_expired\_false(mock\_get\_tokens):  
 mock\_session = MagicMock()  
 athlete\_id = 123  
 mock\_get\_tokens.return\_value = {"expires\_at": 9999999999}  
> result = token\_service.refresh\_token\_if\_expired(mock\_session, athlete\_id)  
  
tests\test\_token\_service.py:112:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
session = <MagicMock id='2098890153424'>, athlete\_id = 123  
  
 def refresh\_token\_if\_expired(session, athlete\_id):  
 token = session.query(Token).filter\_by(athlete\_id=athlete\_id).first()  
 if not token:  
 raise ValueError(f"No token found for athlete ID {athlete\_id}")  
   
 now = datetime.utcnow().timestamp()  
> if token.expires\_at <= now:  
E TypeError: '<=' not supported between instances of 'MagicMock' and 'float'  
  
src\services\token\_service.py:64: TypeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_refresh\_token\_if\_expired\_no\_tokens \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
mock\_get\_tokens = <MagicMock name='get\_tokens\_sa' id='2098915104208'>  
  
 @patch("src.services.token\_service.get\_tokens\_sa", return\_value=None)  
 def test\_refresh\_token\_if\_expired\_no\_tokens(mock\_get\_tokens):  
 mock\_session = MagicMock()  
 athlete\_id = 123  
 with pytest.raises(ValueError):  
> token\_service.refresh\_token\_if\_expired(mock\_session, athlete\_id)  
  
tests\test\_token\_service.py:121:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
session = <MagicMock id='2098915101328'>, athlete\_id = 123  
  
 def refresh\_token\_if\_expired(session, athlete\_id):  
 token = session.query(Token).filter\_by(athlete\_id=athlete\_id).first()  
 if not token:  
 raise ValueError(f"No token found for athlete ID {athlete\_id}")  
   
 now = datetime.utcnow().timestamp()  
> if token.expires\_at <= now:  
E TypeError: '<=' not supported between instances of 'MagicMock' and 'float'  
  
src\services\token\_service.py:64: TypeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_get\_authorization\_url\_valid \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
 def test\_get\_authorization\_url\_valid():  
> url = token\_service.get\_authorization\_url()  
E AttributeError: module 'src.services.token\_service' has no attribute 'get\_authorization\_url'  
  
tests\test\_token\_service.py:125: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_store\_tokens\_from\_callback \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
args = (), keywargs = {}  
  
 @wraps(func)  
 def patched(\*args, \*\*keywargs):  
> with self.decoration\_helper(patched,  
 args,  
 keywargs) as (newargs, newkeywargs):  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1372:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:137: in \_\_enter\_\_  
 return next(self.gen)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1354: in decoration\_helper  
 arg = exit\_stack.enter\_context(patching)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:517: in enter\_context  
 result = \_enter(cm)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1443: in \_\_enter\_\_  
 original, local = self.get\_original()  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
self = <unittest.mock.\_patch object at 0x000001E8AF14A150>  
  
 def get\_original(self):  
 target = self.getter()  
 name = self.attribute  
   
 original = DEFAULT  
 local = False  
   
 try:  
 original = target.\_\_dict\_\_[name]  
 except (AttributeError, KeyError):  
 original = getattr(target, name, DEFAULT)  
 else:  
 local = True  
   
 if name in \_builtins and isinstance(target, ModuleType):  
 self.create = True  
   
 if not self.create and original is DEFAULT:  
> raise AttributeError(  
 "%s does not have the attribute %r" % (target, name)  
 )  
E AttributeError: <module 'src.services.token\_service' from 'C:\\Users\\andre\\projects\\railway-pg-test\\src\\services\\token\_service.py'> does not have the attribute 'insert\_athlete'  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1416: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_login\_user\_success \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
args = (), keywargs = {}  
  
 @wraps(func)  
 def patched(\*args, \*\*keywargs):  
> with self.decoration\_helper(patched,  
 args,  
 keywargs) as (newargs, newkeywargs):  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1372:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:137: in \_\_enter\_\_  
 return next(self.gen)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1354: in decoration\_helper  
 arg = exit\_stack.enter\_context(patching)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:517: in enter\_context  
 result = \_enter(cm)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1443: in \_\_enter\_\_  
 original, local = self.get\_original()  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
self = <unittest.mock.\_patch object at 0x000001E8AF14A410>  
  
 def get\_original(self):  
 target = self.getter()  
 name = self.attribute  
   
 original = DEFAULT  
 local = False  
   
 try:  
 original = target.\_\_dict\_\_[name]  
 except (AttributeError, KeyError):  
 original = getattr(target, name, DEFAULT)  
 else:  
 local = True  
   
 if name in \_builtins and isinstance(target, ModuleType):  
 self.create = True  
   
 if not self.create and original is DEFAULT:  
> raise AttributeError(  
 "%s does not have the attribute %r" % (target, name)  
 )  
E AttributeError: <module 'src.services.token\_service' from 'C:\\Users\\andre\\projects\\railway-pg-test\\src\\services\\token\_service.py'> does not have the attribute 'get\_session'  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1416: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_login\_user\_invalid\_credentials \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
 def test\_login\_user\_invalid\_credentials():  
 data = {"username": "bad", "password": "bad"}  
 with pytest.raises(PermissionError):  
> token\_service.login\_user(data)  
E AttributeError: module 'src.services.token\_service' has no attribute 'login\_user'  
  
tests\test\_token\_service.py:171: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_refresh\_token\_success \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
args = (), keywargs = {}  
  
 @wraps(func)  
 def patched(\*args, \*\*keywargs):  
> with self.decoration\_helper(patched,  
 args,  
 keywargs) as (newargs, newkeywargs):  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1372:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:137: in \_\_enter\_\_  
 return next(self.gen)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1354: in decoration\_helper  
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C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:517: in enter\_context  
 result = \_enter(cm)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1443: in \_\_enter\_\_  
 original, local = self.get\_original()  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
self = <unittest.mock.\_patch object at 0x000001E8AF14AA90>  
  
 def get\_original(self):  
 target = self.getter()  
 name = self.attribute  
   
 original = DEFAULT  
 local = False  
   
 try:  
 original = target.\_\_dict\_\_[name]  
 except (AttributeError, KeyError):  
 original = getattr(target, name, DEFAULT)  
 else:  
 local = True  
   
 if name in \_builtins and isinstance(target, ModuleType):  
 self.create = True  
   
 if not self.create and original is DEFAULT:  
> raise AttributeError(  
 "%s does not have the attribute %r" % (target, name)  
 )  
E AttributeError: <module 'src.services.token\_service' from 'C:\\Users\\andre\\projects\\railway-pg-test\\src\\services\\token\_service.py'> does not have the attribute 'get\_session'  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1416: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_refresh\_token\_expired\_signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
args = (), keywargs = {}  
  
 @wraps(func)  
 def patched(\*args, \*\*keywargs):  
> with self.decoration\_helper(patched,  
 args,  
 keywargs) as (newargs, newkeywargs):  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1372:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
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 self.target = self.getter()  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
name = 'src.services.token\_service.jwt'  
  
 def resolve\_name(name):  
 """  
 Resolve a name to an object.  
   
 It is expected that `name` will be a string in one of the following  
 formats, where W is shorthand for a valid Python identifier and dot stands  
 for a literal period in these pseudo-regexes:  
   
 W(.W)\*  
 W(.W)\*:(W(.W)\*)?  
   
 The first form is intended for backward compatibility only. It assumes that  
 some part of the dotted name is a package, and the rest is an object  
 somewhere within that package, possibly nested inside other objects.  
 Because the place where the package stops and the object hierarchy starts  
 can't be inferred by inspection, repeated attempts to import must be done  
 with this form.  
   
 In the second form, the caller makes the division point clear through the  
 provision of a single colon: the dotted name to the left of the colon is a  
 package to be imported, and the dotted name to the right is the object  
 hierarchy within that package. Only one import is needed in this form. If  
 it ends with the colon, then a module object is returned.  
   
 The function will return an object (which might be a module), or raise one  
 of the following exceptions:  
   
 ValueError - if `name` isn't in a recognised format  
 ImportError - if an import failed when it shouldn't have  
 AttributeError - if a failure occurred when traversing the object hierarchy  
 within the imported package to get to the desired object.  
 """  
 global \_NAME\_PATTERN  
 if \_NAME\_PATTERN is None:  
 # Lazy import to speedup Python startup time  
 import re  
 dotted\_words = r'(?!\d)(\w+)(\.(?!\d)(\w+))\*'  
 \_NAME\_PATTERN = re.compile(f'^(?P<pkg>{dotted\_words})'  
 f'(?P<cln>:(?P<obj>{dotted\_words})?)?$',  
 re.UNICODE)  
   
 m = \_NAME\_PATTERN.match(name)  
 if not m:  
 raise ValueError(f'invalid format: {name!r}')  
 gd = m.groupdict()  
 if gd.get('cln'):  
 # there is a colon - a one-step import is all that's needed  
 mod = importlib.import\_module(gd['pkg'])  
 parts = gd.get('obj')  
 parts = parts.split('.') if parts else []  
 else:  
 # no colon - have to iterate to find the package boundary  
 parts = name.split('.')  
 modname = parts.pop(0)  
 # first part \*must\* be a module/package.  
 mod = importlib.import\_module(modname)  
 while parts:  
 p = parts[0]  
 s = f'{modname}.{p}'  
 try:  
 mod = importlib.import\_module(s)  
 parts.pop(0)  
 modname = s  
 except ImportError:  
 break  
 # if we reach this point, mod is the module, already imported, and  
 # parts is the list of parts in the object hierarchy to be traversed, or  
 # an empty list if just the module is wanted.  
 result = mod  
 for p in parts:  
> result = getattr(result, p)  
E AttributeError: module 'src.services.token\_service' has no attribute 'jwt'  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\pkgutil.py:715: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_refresh\_token\_invalid\_token \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
args = (), keywargs = {}  
  
 @wraps(func)  
 def patched(\*args, \*\*keywargs):  
> with self.decoration\_helper(patched,  
 args,  
 keywargs) as (newargs, newkeywargs):  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1372:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:137: in \_\_enter\_\_  
 return next(self.gen)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1354: in decoration\_helper  
 arg = exit\_stack.enter\_context(patching)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:517: in enter\_context  
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 self.target = self.getter()  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
name = 'src.services.token\_service.jwt'  
  
 def resolve\_name(name):  
 """  
 Resolve a name to an object.  
   
 It is expected that `name` will be a string in one of the following  
 formats, where W is shorthand for a valid Python identifier and dot stands  
 for a literal period in these pseudo-regexes:  
   
 W(.W)\*  
 W(.W)\*:(W(.W)\*)?  
   
 The first form is intended for backward compatibility only. It assumes that  
 some part of the dotted name is a package, and the rest is an object  
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 In the second form, the caller makes the division point clear through the  
 provision of a single colon: the dotted name to the left of the colon is a  
 package to be imported, and the dotted name to the right is the object  
 hierarchy within that package. Only one import is needed in this form. If  
 it ends with the colon, then a module object is returned.  
   
 The function will return an object (which might be a module), or raise one  
 of the following exceptions:  
   
 ValueError - if `name` isn't in a recognised format  
 ImportError - if an import failed when it shouldn't have  
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 within the imported package to get to the desired object.  
 """  
 global \_NAME\_PATTERN  
 if \_NAME\_PATTERN is None:  
 # Lazy import to speedup Python startup time  
 import re  
 dotted\_words = r'(?!\d)(\w+)(\.(?!\d)(\w+))\*'  
 \_NAME\_PATTERN = re.compile(f'^(?P<pkg>{dotted\_words})'  
 f'(?P<cln>:(?P<obj>{dotted\_words})?)?$',  
 re.UNICODE)  
   
 m = \_NAME\_PATTERN.match(name)  
 if not m:  
 raise ValueError(f'invalid format: {name!r}')  
 gd = m.groupdict()  
 if gd.get('cln'):  
 # there is a colon - a one-step import is all that's needed  
 mod = importlib.import\_module(gd['pkg'])  
 parts = gd.get('obj')  
 parts = parts.split('.') if parts else []  
 else:  
 # no colon - have to iterate to find the package boundary  
 parts = name.split('.')  
 modname = parts.pop(0)  
 # first part \*must\* be a module/package.  
 mod = importlib.import\_module(modname)  
 while parts:  
 p = parts[0]  
 s = f'{modname}.{p}'  
 try:  
 mod = importlib.import\_module(s)  
 parts.pop(0)  
 modname = s  
 except ImportError:  
 break  
 # if we reach this point, mod is the module, already imported, and  
 # parts is the list of parts in the object hierarchy to be traversed, or  
 # an empty list if just the module is wanted.  
 result = mod  
 for p in parts:  
> result = getattr(result, p)  
E AttributeError: module 'src.services.token\_service' has no attribute 'jwt'  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\pkgutil.py:715: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_delete\_athlete\_tokens \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
args = (), keywargs = {}  
  
 @wraps(func)  
 def patched(\*args, \*\*keywargs):  
> with self.decoration\_helper(patched,  
 args,  
 keywargs) as (newargs, newkeywargs):  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1372:   
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:137: in \_\_enter\_\_  
 return next(self.gen)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1354: in decoration\_helper  
 arg = exit\_stack.enter\_context(patching)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\contextlib.py:517: in enter\_context  
 result = \_enter(cm)  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1443: in \_\_enter\_\_  
 original, local = self.get\_original()  
\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  
  
self = <unittest.mock.\_patch object at 0x000001E8AF14B210>  
  
 def get\_original(self):  
 target = self.getter()  
 name = self.attribute  
   
 original = DEFAULT  
 local = False  
   
 try:  
 original = target.\_\_dict\_\_[name]  
 except (AttributeError, KeyError):  
 original = getattr(target, name, DEFAULT)  
 else:  
 local = True  
   
 if name in \_builtins and isinstance(target, ModuleType):  
 self.create = True  
   
 if not self.create and original is DEFAULT:  
> raise AttributeError(  
 "%s does not have the attribute %r" % (target, name)  
 )  
E AttributeError: <module 'src.services.token\_service' from 'C:\\Users\\andre\\projects\\railway-pg-test\\src\\services\\token\_service.py'> does not have the attribute 'delete\_tokens\_sa'  
  
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.11\_3.11.2288.0\_x64\_\_qbz5n2kfra8p0\Lib\unittest\mock.py:1416: AttributeError  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ test\_logout\_user\_noop \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
  
 def test\_logout\_user\_noop():  
 # Function is empty, so just call to ensure no error  
> token\_service.logout\_user("token")  
E AttributeError: module 'src.services.token\_service' has no attribute 'logout\_user'  
  
tests\test\_token\_service.py:211: AttributeError  
=========================== short test summary info ===========================  
FAILED tests/test\_activity\_dao.py::test\_get\_by\_id\_returns\_activity - Attribut...  
FAILED tests/test\_activity\_dao.py::test\_get\_by\_id\_returns\_none - AttributeErr...  
FAILED tests/test\_activity\_dao.py::test\_upsert\_activities\_multiple\_activities  
FAILED tests/test\_auth.py::test\_login\_refresh\_logout - assert 401 == 200  
FAILED tests/test\_auth\_routes.py::test\_strava\_login\_redirect - AttributeError...  
FAILED tests/test\_auth\_routes.py::test\_callback\_success - AttributeError: <mo...  
FAILED tests/test\_auth\_routes.py::test\_callback\_exception - AttributeError: <...  
FAILED tests/test\_ingestion\_orchestrator.py::test\_ingest\_between\_dates\_success  
FAILED tests/test\_ingestion\_orchestrator.py::test\_ingest\_between\_dates\_enrichment\_failure  
FAILED tests/test\_main\_pipeline.py::test\_main\_pipeline\_calls\_full\_ingestion  
FAILED tests/test\_oauth\_flow.py::test\_oauth\_callback\_strava\_http\_error - asse...  
FAILED tests/test\_oauth\_flow.py::test\_oauth\_callback\_missing\_env - assert 500...  
FAILED tests/test\_splits.py::test\_upsert\_inserts\_and\_updates - sqlalchemy.exc...  
FAILED tests/test\_splits.py::test\_unique\_constraint - sqlalchemy.exc.Operatio...  
FAILED tests/test\_sync.py::test\_sync\_success - assert 401 == 200  
FAILED tests/test\_token\_service.py::test\_exchange\_code\_for\_token\_success - At...  
FAILED tests/test\_token\_service.py::test\_refresh\_token\_if\_expired\_true - Type...  
FAILED tests/test\_token\_service.py::test\_refresh\_token\_if\_expired\_false - Typ...  
FAILED tests/test\_token\_service.py::test\_refresh\_token\_if\_expired\_no\_tokens  
FAILED tests/test\_token\_service.py::test\_get\_authorization\_url\_valid - Attrib...  
FAILED tests/test\_token\_service.py::test\_store\_tokens\_from\_callback - Attribu...  
FAILED tests/test\_token\_service.py::test\_login\_user\_success - AttributeError:...  
FAILED tests/test\_token\_service.py::test\_login\_user\_invalid\_credentials - Att...  
FAILED tests/test\_token\_service.py::test\_refresh\_token\_success - AttributeErr...  
FAILED tests/test\_token\_service.py::test\_refresh\_token\_expired\_signature - At...  
FAILED tests/test\_token\_service.py::test\_refresh\_token\_invalid\_token - Attrib...  
FAILED tests/test\_token\_service.py::test\_delete\_athlete\_tokens - AttributeErr...  
FAILED tests/test\_token\_service.py::test\_logout\_user\_noop - AttributeError: m...  
ERROR tests/test\_athlete\_dao.py::test\_insert\_and\_get\_athlete - sqlalchemy.exc...  
ERROR tests/test\_enrichment\_with\_splits.py::test\_enrich\_one\_activity\_with\_splits  
ERROR tests/test\_full\_ingestion\_flow.py::test\_run\_full\_ingestion\_flow - sqlal...  
ERROR tests/test\_integration\_ingestion.py::test\_ingest\_specific\_activity\_integration  
ERROR tests/test\_split\_dao.py::test\_upsert\_splits\_basic - sqlalchemy.exc.Oper...  
ERROR tests/test\_split\_upsert\_idempotency.py::test\_upsert\_splits\_idempotency  
================== 28 failed, 73 passed, 6 errors in 40.94s ===================

### 📄 run.py

import sys  
import os  
from pathlib import Path  
from datetime import datetime  
from dotenv import load\_dotenv  
  
# ─────────────────────────────  
# 📦 Setup  
# ─────────────────────────────  
sys.path.insert(0, str(Path(\_\_file\_\_).resolve().parent))  
load\_dotenv()  
  
print("DATABASE\_URL at runtime:", os.getenv("DATABASE\_URL"), flush=True)  
  
import src.utils.config as config  
from src.db.db\_session import get\_session  
from src.services.ingestion\_orchestrator\_service import run\_full\_ingestion\_and\_enrichment  
  
# ─────────────────────────────  
# 🚀 Flask App Setup for Gunicorn  
# ─────────────────────────────  
try:  
 from src.app import create\_app  
 app = create\_app()  
 print("✅ App created via create\_app()", flush=True)  
except Exception as e:  
 print("🔥 App creation failed:", e, flush=True)  
 import traceback  
 traceback.print\_exc()  
 raise  
  
# ─────────────────────────────  
# 🧪 Local + Cron Execution Only  
# ─────────────────────────────  
if \_\_name\_\_ == "\_\_main\_\_":  
 print("📦 Starting run.py...", flush=True)  
  
 # Patch DB URL if running locally  
 if config.IS\_LOCAL and config.DATABASE\_URL and 'postgres@postgres:' in config.DATABASE\_URL:  
 patched\_db\_url = config.DATABASE\_URL.replace('postgres@postgres:', 'postgres@localhost:')  
 os.environ['DATABASE\_URL'] = patched\_db\_url  
 print(f"🔧 DATABASE\_URL rewritten for local: {patched\_db\_url}", flush=True)  
 else:  
 print(f"✅ DATABASE\_URL used as-is: {config.DATABASE\_URL}", flush=True)  
  
 # Run as CRON job if enabled  
 if os.getenv("RUN\_CRON") == "true":  
 print(f"[CRON SYNC] ✅ Sync job started at {datetime.utcnow().isoformat()}", flush=True)  
 try:  
 session = get\_session()  
 athlete\_id = int(os.getenv("ATHLETE\_ID", "123456"))  
 result = run\_full\_ingestion\_and\_enrichment(session, athlete\_id)  
 print(f"[CRON SYNC] ✅ Sync complete: {result}", flush=True)  
 except Exception as e:  
 print(f"[CRON SYNC] ❌ Error during sync: {e}", flush=True)  
 import traceback  
 traceback.print\_exc()  
 sys.exit(0)  
  
 # Dev mode — test DB connection and run server  
 port = config.PORT  
 config\_db\_url = app.config.get("DATABASE\_URL") or config.DATABASE\_URL  
 print("🔍 ENV DATABASE\_URL =", config.DATABASE\_URL, flush=True)  
 print("🔍 CONFIG DATABASE\_URL =", config\_db\_url, flush=True)  
  
 if not config\_db\_url:  
 print("❗ DATABASE\_URL not set — exiting", flush=True)  
 sys.exit(1)  
  
 try:  
 from psycopg2 import connect  
 print(f"🔌 Attempting psycopg2.connect() to: {config\_db\_url}", flush=True)  
 sanitized\_url = config\_db\_url.replace("postgresql+psycopg2://", "postgresql://").split("#")[0].strip()  
 conn = connect(sanitized\_url)  
 with conn.cursor() as cur:  
 cur.execute("SELECT 1;")  
 cur.fetchone()  
 print("✅ DB test query succeeded!", flush=True)  
 except Exception as e:  
 print("⚠️ DB test query failed:", e, flush=True)  
 import traceback  
 traceback.print\_exc()  
  
 # Check templates folder  
 template\_dir = Path(\_\_file\_\_).parent / "templates"  
 if not template\_dir.exists():  
 print(f"❌ Template folder not found: {template\_dir}", flush=True)  
 else:  
 print(f"📂 Template folder contents: {[f.name for f in template\_dir.glob('\*')]}", flush=True)  
  
 print(f"🚀 Starting app locally on 0.0.0.0:{port}", flush=True)  
 app.run(host="0.0.0.0", port=port, debug=True)

### 📄 src\\_\_init\_\_.py

### 📄 src\app.py

import os  
print("🔍 Runtime DATABASE\_URL:", os.getenv("DATABASE\_URL"))  
from pathlib import Path  
from flask import Flask  
  
import src.utils.config as config  
from src.routes.admin\_routes import admin\_bp  
from src.routes.auth\_routes import auth\_bp  
from src.routes.activity\_routes import activity\_bp  
  
from src.routes.health\_routes import health\_bp  
  
from src.routes.ask\_routes import ask\_bp  
  
def create\_app(test\_config=None):  
 print("✅ ENTERED create\_app()", flush=True)  
 print("📁 CWD:", os.getcwd(), flush=True)  
 print("📁 Contents of current working dir:", os.listdir(os.getcwd()), flush=True)  
  
 env\_mode = os.getenv("FLASK\_ENV", "production")  
 is\_local = os.getenv("IS\_LOCAL", "false").lower() == "true"  
 print(f"🌍 FLASK\_ENV={env\_mode} | IS\_LOCAL={is\_local}", flush=True)  
  
 # Explicitly print critical environment variables for debugging  
 print("DEBUG ENV VARS:")  
 print(f"DATABASE\_URL={os.getenv('DATABASE\_URL')}", flush=True)  
 print(f"CRON\_SECRET\_KEY={os.getenv('CRON\_SECRET\_KEY')}", flush=True)  
 print(f"SECRET\_KEY={os.getenv('SECRET\_KEY')}", flush=True)  
 print(f"INTERNAL\_API\_KEY={os.getenv('INTERNAL\_API\_KEY')}", flush=True)  
 print(f"ADMIN\_USER={os.getenv('ADMIN\_USER')}", flush=True)  
 print(f"ADMIN\_PASS={os.getenv('ADMIN\_PASS')}", flush=True)  
 print(f"STRAVA\_CLIENT\_ID={os.getenv('STRAVA\_CLIENT\_ID')}", flush=True)  
 print(f"STRAVA\_CLIENT\_SECRET={os.getenv('STRAVA\_CLIENT\_SECRET')}", flush=True)  
 print(f"STRAVA\_REDIRECT\_URI={os.getenv('STRAVA\_REDIRECT\_URI')}", flush=True)  
  
 print("🔐 ADMIN\_USER:", config.ADMIN\_USER, flush=True)  
 print("🔐 ADMIN\_PASS:", config.ADMIN\_PASS, flush=True)  
 print("🔐 STRAVA\_CLIENT\_ID:", config.STRAVA\_CLIENT\_ID, flush=True)  
 print("🔐 STRAVA\_CLIENT\_SECRET:", config.STRAVA\_CLIENT\_SECRET, flush=True)  
 print("🔐 STRAVA\_REDIRECT\_URI:", config.STRAVA\_REDIRECT\_URI, flush=True)  
 print("💾 CONFIG DATABASE\_URL:", config.DATABASE\_URL, flush=True)  
  
 templates\_path = Path(\_\_file\_\_).resolve().parent.parent / "templates"  
  
 app = Flask(  
 \_\_name\_\_,  
 instance\_relative\_config=False,  
 template\_folder=str(templates\_path)  
 )  
  
 app.config.from\_mapping(  
 SECRET\_KEY=config.SECRET\_KEY,  
 DATABASE\_URL=config.DATABASE\_URL,  
 CRON\_SECRET\_KEY=config.CRON\_SECRET\_KEY,  
 INTERNAL\_API\_KEY=config.INTERNAL\_API\_KEY,  
 )  
  
 if test\_config:  
 app.config.update(test\_config)  
  
 print("💾 CONFIG DATABASE\_URL (from app.config):", app.config.get("DATABASE\_URL"), flush=True)  
  
 # Register Blueprints with correct prefixes  
 app.register\_blueprint(auth\_bp, url\_prefix="/auth")  
 app.register\_blueprint(admin\_bp, url\_prefix="/admin")  
 app.register\_blueprint(activity\_bp, url\_prefix="/sync")  
 app.register\_blueprint(health\_bp)  
 app.register\_blueprint(ask\_bp)  
  
 @app.route("/ping")  
 def ping():  
 return "pong", 200  
  
 @app.route("/db-check")  
 def db\_check():  
 try:  
 from sqlalchemy import create\_engine, inspect  
  
 # Print the env var just before creating engine (double check connection string)  
 db\_url = os.getenv("DATABASE\_URL")  
 print("🧪 /db-check using DB URL from env:", db\_url, flush=True)  
  
 engine = create\_engine(db\_url)  
 insp = inspect(engine)  
  
 columns = insp.get\_columns("splits")  
 split\_col = next((c for c in columns if c["name"] == "split"), None)  
  
 print("🧪 SPLIT COLUMN:", split\_col, flush=True)  
  
 return {  
 "status": "ok",  
 "db": True,  
 "split\_column": {  
 "name": split\_col["name"],  
 "type": str(split\_col["type"]),  
 "nullable": split\_col["nullable"]  
 } if split\_col else "not found"  
 }  
 except Exception as e:  
 import traceback  
 print("🔥 DB-CHECK EXCEPTION:", flush=True)  
 traceback.print\_exc()  
 return {"status": "fail", "error": str(e)}, 500  
  
 @app.route("/startup")  
 def startup():  
 return {  
 "status": "started",  
 "env\_PORT": os.getenv("PORT"),  
 "env\_DATABASE\_URL": os.getenv("DATABASE\_URL"),  
 "config\_DATABASE\_URL": config.DATABASE\_URL,  
 "cwd": os.getcwd(),  
 "files": [p.name for p in Path(".").iterdir()],  
 }  
  
 print("✅ Registered routes:")  
 for rule in app.url\_map.iter\_rules():  
 print(f" {rule.rule} -> {rule.endpoint}", flush=True)  
  
 return app

### 📄 src\db\\_\_init\_\_.py

### 📄 src\db\dao\activity\_dao.py

from sqlalchemy.dialects.postgresql import insert  
from sqlalchemy.orm import Session  
from src.db.models.activities import Activity  
from src.utils.conversions import convert\_metrics  
from src.utils.logger import get\_logger  
from typing import List, Dict  
  
logger = get\_logger(\_\_name\_\_)  
  
class ActivityDAO:  
 @staticmethod  
 def upsert\_activities(session: Session, athlete\_id: int, activities: List[Dict]) -> int:  
 """  
 Upsert activities into the database, filtering only 'Run' types.  
 """  
 if not activities:  
 return 0  
  
 rows = []  
 for act in activities:  
 if act.get("type") != "Run":  
 logger.warning(f"⚠️ Skipping non-Run activity {act.get('id')} — type={act.get('type')}")  
 continue  
  
 name = act.get("name", "").lower()  
 is\_treadmill = "treadmill" in name  
  
 required\_fields = ["id", "start\_date", "distance", "moving\_time", "elapsed\_time"]  
 if not is\_treadmill:  
 required\_fields.append("external\_id")  
  
 missing = [f for f in required\_fields if not act.get(f)]  
 if missing:  
 logger.error(f"❌ Skipping activity {act.get('id')} due to missing required fields: {missing}")  
 continue  
  
 conv\_input = {  
 "distance": act.get("distance"),  
 "elevation": act.get("total\_elevation\_gain"),  
 "average\_speed": act.get("average\_speed"),  
 "max\_speed": act.get("max\_speed"),  
 "moving\_time": act.get("moving\_time"),  
 "elapsed\_time": act.get("elapsed\_time")  
 }  
 conv\_fields = ["distance", "elevation", "average\_speed", "max\_speed", "moving\_time", "elapsed\_time"]  
 conv = convert\_metrics(conv\_input, conv\_fields)  
  
 row = {  
 "activity\_id": act["id"],  
 "athlete\_id": athlete\_id,  
 "name": act.get("name"),  
 "type": act.get("type"),  
 "start\_date": act.get("start\_date"),  
 "distance": act.get("distance"),  
 "elapsed\_time": act.get("elapsed\_time"),  
 "moving\_time": act.get("moving\_time"),  
 "total\_elevation\_gain": act.get("total\_elevation\_gain"),  
 "external\_id": act.get("external\_id"),  
 "timezone": act.get("timezone"),  
 "hr\_zone\_1": act.get("hr\_zone\_1"),  
 "hr\_zone\_2": act.get("hr\_zone\_2"),  
 "hr\_zone\_3": act.get("hr\_zone\_3"),  
 "hr\_zone\_4": act.get("hr\_zone\_4"),  
 "hr\_zone\_5": act.get("hr\_zone\_5"),  
 "conv\_distance": conv.get("conv\_distance"),  
 "conv\_elevation\_feet": conv.get("conv\_elevation\_feet"),  
 "conv\_avg\_speed": conv.get("conv\_avg\_speed"),  
 "conv\_max\_speed": conv.get("conv\_max\_speed"),  
 "conv\_moving\_time": conv.get("conv\_moving\_time"),  
 "conv\_elapsed\_time": conv.get("conv\_elapsed\_time"),  
 }  
 rows.append(row)  
  
 if not rows:  
 return 0  
  
 stmt = insert(Activity).values(rows)  
 update\_cols = {  
 col.name: getattr(stmt.excluded, col.name)  
 for col in Activity.\_\_table\_\_.columns  
 if col.name != "activity\_id"  
 }  
 stmt = stmt.on\_conflict\_do\_update(index\_elements=["activity\_id"], set\_=update\_cols)  
  
 result = session.execute(stmt)  
 session.commit()  
 return result.rowcount  
  
 @staticmethod  
 def get\_by\_id(session: Session, activity\_id: int) -> Activity | None:  
 """  
 Retrieve a single activity by its activity\_id.  
 """  
 return session.query(Activity).filter\_by(activity\_id=activity\_id).first()

### 📄 src\db\dao\activity\_stats\_dao.py

from datetime import datetime, timedelta  
from sqlalchemy import func, extract, select  
from src.db.models.activities import Activity  
from sqlalchemy.orm import Session  
from typing import List, Dict, Optional  
  
class ActivityStatsDAO:  
  
 @staticmethod  
 def get\_recent\_activities(session: Session, athlete\_id: int, days: int) -> List[Activity]:  
 cutoff = datetime.utcnow() - timedelta(days=days)  
 stmt = select(Activity).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date >= cutoff  
 ).order\_by(Activity.start\_date.desc())  
 return session.scalars(stmt).all()  
  
 @staticmethod  
 def get\_activities\_by\_date\_range(session: Session, athlete\_id: int, start\_date: datetime, end\_date: datetime) -> List[Activity]:  
 stmt = select(Activity).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date.between(start\_date, end\_date)  
 ).order\_by(Activity.start\_date)  
 return session.scalars(stmt).all()  
  
 @staticmethod  
 def get\_total\_distance(session: Session, athlete\_id: int, start\_date: datetime, end\_date: datetime) -> float:  
 stmt = select(func.sum(Activity.distance)).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date.between(start\_date, end\_date)  
 )  
 return session.scalar(stmt) or 0.0  
  
 @staticmethod  
 def get\_average\_pace(session: Session, athlete\_id: int, days: int) -> Optional[float]:  
 cutoff = datetime.utcnow() - timedelta(days=days)  
 stmt = select(  
 func.avg(Activity.moving\_time / (Activity.distance / 1000))  
 ).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date >= cutoff,  
 Activity.distance > 0  
 )  
 return session.scalar(stmt)  
  
 @staticmethod  
 def get\_longest\_run(session: Session, athlete\_id: int, days: int) -> Optional[Activity]:  
 cutoff = datetime.utcnow() - timedelta(days=days)  
 stmt = select(Activity).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date >= cutoff  
 ).order\_by(Activity.distance.desc()).limit(1)  
 return session.scalar(stmt)  
  
 @staticmethod  
 def get\_fastest\_run(session: Session, athlete\_id: int, days: int) -> Optional[Activity]:  
 cutoff = datetime.utcnow() - timedelta(days=days)  
 stmt = select(Activity).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date >= cutoff,  
 Activity.distance > 0  
 ).order\_by((Activity.moving\_time / (Activity.distance / 1000)).asc()).limit(1)  
 return session.scalar(stmt)  
  
 @staticmethod  
 def get\_weekly\_summary(session: Session, athlete\_id: int, past\_weeks: int = 4) -> List[Dict]:  
 cutoff = datetime.utcnow() - timedelta(weeks=past\_weeks)  
 stmt = select(  
 extract('year', Activity.start\_date).label('year'),  
 extract('week', Activity.start\_date).label('week'),  
 func.sum(Activity.distance).label('total\_distance'),  
 func.sum(Activity.moving\_time).label('total\_time')  
 ).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date >= cutoff  
 ).group\_by('year', 'week').order\_by('year', 'week')  
 return [dict(row.\_mapping) for row in session.execute(stmt)]  
  
 @staticmethod  
 def get\_hr\_zone\_summary(session: Session, athlete\_id: int, days: int) -> Dict[str, float]:  
 cutoff = datetime.utcnow() - timedelta(days=days)  
 stmt = select(  
 func.avg(Activity.hr\_zone\_1),  
 func.avg(Activity.hr\_zone\_2),  
 func.avg(Activity.hr\_zone\_3),  
 func.avg(Activity.hr\_zone\_4),  
 func.avg(Activity.hr\_zone\_5)  
 ).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date >= cutoff  
 )  
 row = session.execute(stmt).first()  
 return {  
 "zone\_1": row[0] or 0.0,  
 "zone\_2": row[1] or 0.0,  
 "zone\_3": row[2] or 0.0,  
 "zone\_4": row[3] or 0.0,  
 "zone\_5": row[4] or 0.0,  
 }  
  
 @staticmethod  
 def get\_treadmill\_vs\_outdoor\_stats(session: Session, athlete\_id: int, days: int) -> Dict[str, int]:  
 cutoff = datetime.utcnow() - timedelta(days=days)  
 stmt = select(Activity.name).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date >= cutoff  
 )  
 runs = session.scalars(stmt).all()  
 treadmill = sum(1 for r in runs if r and "treadmill" in r.lower())  
 return {"treadmill": treadmill, "outdoor": len(runs) - treadmill}  
  
 @staticmethod  
 def get\_runs\_by\_weekday(session: Session, athlete\_id: int, days: int) -> Dict[str, int]:  
 cutoff = datetime.utcnow() - timedelta(days=days)  
 stmt = select(extract("dow", Activity.start\_date), func.count()).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date >= cutoff  
 ).group\_by(extract("dow", Activity.start\_date))  
 result = session.execute(stmt).all()  
 return {str(int(day)): count for day, count in result}  
  
 @staticmethod  
 def get\_time\_of\_day\_stats(session: Session, athlete\_id: int, days: int) -> Dict[str, int]:  
 cutoff = datetime.utcnow() - timedelta(days=days)  
 stmt = select(Activity.start\_date).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date >= cutoff  
 )  
 results = session.scalars(stmt).all()  
 morning = sum(1 for r in results if r and r.hour < 12)  
 return {"morning": morning, "evening": len(results) - morning}  
  
 @staticmethod  
 def get\_trend\_metrics(session: Session, athlete\_id: int, metric: str, window\_size: int = 7) -> List[Dict]:  
 metric\_col = getattr(Activity, metric, None)  
 if not metric\_col:  
 raise ValueError(f"Invalid metric field: {metric}")  
  
 cutoff = datetime.utcnow() - timedelta(days=window\_size \* 6)  
 stmt = select(  
 func.date\_trunc('week', Activity.start\_date).label('week'),  
 func.avg(metric\_col).label('avg\_metric')  
 ).where(  
 Activity.athlete\_id == athlete\_id,  
 Activity.type == "Run",  
 Activity.start\_date >= cutoff  
 ).group\_by('week').order\_by('week')  
 return [dict(row.\_mapping) for row in session.execute(stmt)]

### 📄 src\db\dao\athlete\_dao.py

# src/db/dao/athlete\_dao.py  
  
from typing import Optional  
from sqlalchemy.orm import Session  
from src.db.models.athletes import Athlete  
  
  
def get\_athlete\_by\_strava\_id(session: Session, strava\_id: int) -> Optional[Athlete]:  
 """  
 Retrieve the athlete record by their Strava athlete ID.  
 """  
 return session.query(Athlete).filter\_by(strava\_athlete\_id=strava\_id).first()  
  
  
def get\_athlete\_id\_from\_strava\_id(session: Session, strava\_id: int) -> Optional[int]:  
 """  
 Retrieve internal athlete ID from the Strava athlete ID.  
 """  
 result = session.query(Athlete.id).filter\_by(strava\_athlete\_id=strava\_id).first()  
 return result.id if result else None  
  
  
def insert\_athlete(session: Session, strava\_athlete\_id: int, name: Optional[str] = None, email: Optional[str] = None) -> int:  
 """  
 Insert a new athlete record and return the internal athlete ID.  
 """  
 new\_athlete = Athlete(  
 strava\_athlete\_id=strava\_athlete\_id,  
 name=name,  
 email=email  
 )  
 session.add(new\_athlete)  
 session.commit()  
 session.refresh(new\_athlete)  
 return new\_athlete.id  
  
  
def get\_all\_athletes(session: Session) -> list[Athlete]:  
 """  
 Retrieve all athletes from the database.  
 """  
 return session.query(Athlete).all()

### 📄 src\db\dao\split\_dao.py

from sqlalchemy.dialects.postgresql import insert  
from src.db.models.splits import Split  
from src.utils.conversions import convert\_metrics  
  
def upsert\_splits(session, splits: list) -> int:  
 """  
 Upserts multiple split records into the 'splits' table.  
 Applies conversion logic centrally before inserting.  
 Ensures 'split' field is consistently a valid integer type.  
 """  
 if not splits:  
 return 0  
  
 converted = []  
 for s in splits:  
 # Ensure 'split' is a true int, not a bool or invalid type  
 split\_raw = s.get("split")  
 split\_value = None  
 if split\_raw is not None:  
 if isinstance(split\_raw, bool):  
 split\_value = 1 if split\_raw else 0  
 elif isinstance(split\_raw, (int, float, str)):  
 try:  
 split\_value = int(split\_raw)  
 except (ValueError, TypeError):  
 split\_value = None # fallback for invalid string etc.  
  
 conv\_fields = ["distance", "average\_speed", "moving\_time", "elapsed\_time"]  
 conv\_data = {  
 "distance": s.get("distance"),  
 "average\_speed": s.get("average\_speed"),  
 "moving\_time": s.get("moving\_time"),  
 "elapsed\_time": s.get("elapsed\_time"),  
 }  
 enriched = convert\_metrics(conv\_data, conv\_fields)  
  
 converted.append({  
 "activity\_id": s["activity\_id"],  
 "lap\_index": s["lap\_index"],  
 "distance": s["distance"],  
 "elapsed\_time": s["elapsed\_time"],  
 "moving\_time": s["moving\_time"],  
 "average\_speed": s["average\_speed"],  
 "max\_speed": s["max\_speed"],  
 "start\_index": s["start\_index"],  
 "end\_index": s["end\_index"],  
 "split": split\_value,  
 "average\_heartrate": s.get("average\_heartrate"),  
 "pace\_zone": s.get("pace\_zone"),  
 "conv\_distance": enriched.get("conv\_distance"),  
 "conv\_avg\_speed": enriched.get("conv\_avg\_speed"),  
 "conv\_moving\_time": enriched.get("conv\_moving\_time"),  
 "conv\_elapsed\_time": enriched.get("conv\_elapsed\_time"),  
 })  
  
 # 🔍 Debug output to verify types  
 print(f"[DAO DEBUG] split values: {[row['split'] for row in converted]} | types: {[type(row['split']) for row in converted]}")  
  
 stmt = insert(Split).values(converted)  
  
 update\_map = {  
 col.name: getattr(stmt.excluded, col.name)  
 for col in Split.\_\_table\_\_.columns  
 if col.name not in ("activity\_id", "lap\_index")  
 }  
  
 stmt = stmt.on\_conflict\_do\_update(  
 index\_elements=["activity\_id", "lap\_index"],  
 set\_=update\_map  
 )  
  
 result = session.execute(stmt)  
 session.commit()  
 return result.rowcount

### 📄 src\db\dao\token\_dao.py

from sqlalchemy.exc import NoResultFound  
from sqlalchemy.dialects.postgresql import insert  
from src.db.models.tokens import Token  
  
  
def get\_tokens\_sa(session, athlete\_id: int) -> dict | None:  
 """  
 Retrieves access, refresh, and expiration tokens for the given athlete.  
 Returns None if not found.  
 """  
 try:  
 token = session.query(Token).filter\_by(athlete\_id=athlete\_id).one()  
 return {  
 "access\_token": token.access\_token,  
 "refresh\_token": token.refresh\_token,  
 "expires\_at": token.expires\_at,  
 }  
 except NoResultFound:  
 return None  
  
  
def insert\_token\_sa(session, athlete\_id: int, access\_token: str, refresh\_token: str, expires\_at: int) -> None:  
 """  
 Inserts or updates a token record for the given athlete using upsert.  
 """  
 stmt = insert(Token).values(  
 athlete\_id=athlete\_id,  
 access\_token=access\_token,  
 refresh\_token=refresh\_token,  
 expires\_at=expires\_at  
 ).on\_conflict\_do\_update(  
 index\_elements=["athlete\_id"],  
 set\_={  
 "access\_token": access\_token,  
 "refresh\_token": refresh\_token,  
 "expires\_at": expires\_at  
 }  
 )  
  
 session.execute(stmt)  
 session.commit()  
  
  
def delete\_tokens\_sa(session, athlete\_id: int) -> int:  
 """  
 Deletes the token record for the given athlete.  
 Returns the number of rows deleted.  
 """  
 result = session.query(Token).filter\_by(athlete\_id=athlete\_id).delete()  
 session.commit()  
 return result

### 📄 src\db\db\_session.py

from sqlalchemy import create\_engine  
from sqlalchemy.orm import declarative\_base, sessionmaker  
  
import src.utils.config as config  
  
# Global declarative base — shared across models  
Base = declarative\_base()  
  
def get\_engine(db\_url=None):  
 """  
 Create a SQLAlchemy engine.  
 Allows optional db\_url override for tests or special cases.  
 """  
 db\_url = db\_url or config.DATABASE\_URL  
 if not db\_url:  
 raise RuntimeError("DATABASE\_URL is not set in configuration.")  
 return create\_engine(db\_url, echo=False, future=True)  
  
def get\_session(engine=None):  
 """  
 Create a new SQLAlchemy sessionmaker (not a global session).  
 Allows optional engine injection for test harnesses.  
 """  
 engine = engine or get\_engine()  
 SessionLocal = sessionmaker(bind=engine, autoflush=False, autocommit=False, future=True)  
 return SessionLocal()

### 📄 src\db\models\activities.py

from sqlalchemy import Column, BigInteger, Integer, String, Float, DateTime  
from src.db.db\_session import Base  
  
class Activity(Base):  
 \_\_tablename\_\_ = "activities"  
  
 activity\_id = Column(BigInteger, primary\_key=True, index=True)  
 athlete\_id = Column(BigInteger, nullable=False, index=True)  
 name = Column(String)  
 type = Column(String)  
 start\_date = Column(DateTime)  
 distance = Column(Float)  
 elapsed\_time = Column(Integer)  
 moving\_time = Column(Integer)  
 total\_elevation\_gain = Column(Float)  
 external\_id = Column(String)  
 timezone = Column(String)  
  
 average\_speed = Column(Float)  
 max\_speed = Column(Float)  
 suffer\_score = Column(Float)  
 average\_heartrate = Column(Float)  
 max\_heartrate = Column(Float)  
 calories = Column(Float)  
  
 conv\_distance = Column(Float)  
 conv\_elevation\_feet = Column(Float)  
 conv\_avg\_speed = Column(Float)  
 conv\_max\_speed = Column(Float)  
 conv\_moving\_time = Column(String)  
 conv\_elapsed\_time = Column(String)  
  
 # HR Zone enrichment (test field)  
 hr\_zone\_1 = Column(Float, nullable=True)  
 hr\_zone\_2 = Column(Float, nullable=True)  
 hr\_zone\_3 = Column(Float, nullable=True)  
 hr\_zone\_4 = Column(Float, nullable=True)  
 hr\_zone\_5 = Column(Float, nullable=True)

### 📄 src\db\models\athletes.py

from sqlalchemy import Column, Integer, BigInteger, String, DateTime, func  
from src.db.db\_session import Base  
  
class Athlete(Base):  
 \_\_tablename\_\_ = "athletes"  
  
 id = Column(Integer, primary\_key=True)  
 strava\_athlete\_id = Column(BigInteger, unique=True, nullable=False)  
 name = Column(String, nullable=True)  
 email = Column(String, nullable=True)  
 created\_at = Column(DateTime, server\_default=func.now())

### 📄 src\db\models\splits.py

from sqlalchemy import (  
 Column,  
 Integer,  
 Float,  
 ForeignKey,  
 TIMESTAMP,  
 BigInteger,  
 String,  
 UniqueConstraint,  
 Boolean, # ✅ Added Boolean  
)  
from sqlalchemy.sql import func  
from sqlalchemy.dialects.postgresql import insert  
from src.db.db\_session import Base, get\_session  
  
  
class Split(Base):  
 \_\_tablename\_\_ = "splits"  
  
 id = Column(Integer, primary\_key=True)  
 activity\_id = Column(BigInteger, ForeignKey("activities.activity\_id", ondelete="CASCADE"), nullable=False)  
 lap\_index = Column(Integer, nullable=False)  
 distance = Column(Float)  
 elapsed\_time = Column(Integer)  
 moving\_time = Column(Integer)  
 average\_speed = Column(Float)  
 max\_speed = Column(Float)  
 start\_index = Column(Integer)  
 end\_index = Column(Integer)  
 split = Column(Integer, nullable=True)  
 average\_heartrate = Column(Float)  
 pace\_zone = Column(Integer)  
 created\_at = Column(TIMESTAMP, server\_default=func.now())  
 conv\_distance = Column(Float)  
 conv\_avg\_speed = Column(Float)  
 conv\_moving\_time = Column(String)  
 conv\_elapsed\_time = Column(String)  
  
 \_\_table\_args\_\_ = (  
 UniqueConstraint("activity\_id", "lap\_index", name="uq\_activity\_lap"),  
 )  
  
  
def upsert\_splits(session, splits\_data: list[dict]):  
 if not splits\_data:  
 return  
  
 stmt = insert(Split).values(splits\_data)  
 update\_cols = {  
 c.name: getattr(stmt.excluded, c.name)  
 for c in Split.\_\_table\_\_.columns  
 if c.name not in {"id", "created\_at"}  
 }  
  
 stmt = stmt.on\_conflict\_do\_update(  
 constraint="uq\_activity\_lap",  
 set\_=update\_cols  
 )  
  
 session.execute(stmt)  
 session.commit()

### 📄 src\db\models\tokens.py

from sqlalchemy import Column, BigInteger, String  
from src.db.db\_session import Base # ✅ use shared Base  
  
class Token(Base):  
 \_\_tablename\_\_ = "tokens"  
  
 athlete\_id = Column(BigInteger, primary\_key=True)  
 access\_token = Column(String, nullable=False)  
 refresh\_token = Column(String, nullable=False)  
 expires\_at = Column(BigInteger, nullable=False)

### 📄 src\routes\\_\_init\_\_.py

### 📄 src\routes\activity\_routes.py

from flask import Blueprint, jsonify, request  
import traceback  
from sqlalchemy import text  
  
import src.utils.config as config  
from src.services.activity\_service import ActivityIngestionService, run\_enrichment\_batch  
from src.db.db\_session import get\_session  
  
activity\_bp = Blueprint("activity", \_\_name\_\_)  
  
  
# -------- Enrichment Routes --------  
  
@activity\_bp.route("/enrich/status", methods=["GET"])  
def enrich\_status():  
 """Quick health check"""  
 return jsonify({"enrich": "ok"}), 200  
  
  
@activity\_bp.route("/enrich/activity/<int:activity\_id>", methods=["POST"])  
def enrich\_single(activity\_id):  
 """Trigger enrichment for a single activity"""  
 session = get\_session()  
 try:  
 row = session.execute(  
 text("SELECT athlete\_id FROM activities WHERE activity\_id = :id"),  
 {"id": activity\_id}  
 ).fetchone()  
  
 if not row:  
 return jsonify({"error": f"Activity {activity\_id} not found"}), 404  
  
 athlete\_id = row.athlete\_id  
 service = ActivityIngestionService(session, athlete\_id)  
 service.enrich\_single\_activity(activity\_id)  
  
 return jsonify({"status": f"Activity {activity\_id} enriched"}), 200  
  
 except Exception as e:  
 traceback.print\_exc()  
 return jsonify({"error": str(e)}), 500  
  
 finally:  
 session.close()  
  
  
@activity\_bp.route("/enrich/batch", methods=["POST"])  
def enrich\_batch():  
 """Enrich a batch of activities for a given athlete"""  
 athlete\_id = request.args.get("athlete\_id", type=int)  
 batch = request.args.get("batch", default=20, type=int)  
  
 if not athlete\_id:  
 return jsonify({"error": "Missing athlete\_id"}), 400  
  
 session = get\_session()  
 try:  
 enriched = run\_enrichment\_batch(session, athlete\_id, batch\_size=batch)  
 return jsonify({"status": "Batch enrichment complete", "count": enriched}), 200  
 except Exception as e:  
 traceback.print\_exc()  
 return jsonify({"error": str(e)}), 500  
 finally:  
 session.close()  
  
  
# -------- Sync Routes --------  
  
@activity\_bp.route("/sync/<int:athlete\_id>")  
def sync\_strava\_to\_db(athlete\_id):  
 """Strava sync endpoint secured via CRON secret"""  
 key = request.args.get("key")  
 if not config.CRON\_SECRET\_KEY or key != config.CRON\_SECRET\_KEY:  
 return jsonify(error="Unauthorized"), 401  
  
 lookback\_days = request.args.get("lookback", default=30, type=int)  
 max\_activities = request.args.get("limit", default=None, type=int) # <--- FIXED HERE  
  
 session = get\_session()  
 try:  
 ingestion\_service = ActivityIngestionService(session, athlete\_id)  
 inserted = ingestion\_service.ingest\_recent(  
 lookback\_days=lookback\_days,  
 max\_activities=max\_activities # <--- FIXED HERE  
 )  
 return jsonify(inserted=inserted), 200  
 except Exception as e:  
 traceback.print\_exc()  
 return jsonify(error="Sync failed", details=str(e)), 500  
 finally:  
 session.close()

### 📄 src\routes\admin\_routes.py

from flask import Blueprint  
  
admin\_bp = Blueprint("admin", \_\_name\_\_)  
  
@admin\_bp.route("/admin/ping")  
def ping():  
 return "pong from admin"

### 📄 src\routes\ask\_routes.py

# src/routes/ask\_routes.py  
  
from flask import Blueprint, request, jsonify  
  
ask\_bp = Blueprint('ask', \_\_name\_\_)  
  
@ask\_bp.route('/ask', methods=['POST'])  
def ask():  
 data = request.get\_json()  
  
 if not data:  
 return jsonify({"error": "Missing JSON payload"}), 400  
  
 question = data.get("question")  
 athlete\_id = data.get("athlete\_id")  
  
 if not isinstance(question, str) or not question.strip():  
 return jsonify({"error": "Invalid or missing 'question'"}), 400  
  
 if not isinstance(athlete\_id, (int, str)) or not str(athlete\_id).strip():  
 return jsonify({"error": "Invalid or missing 'athlete\_id'"}), 400  
  
 return jsonify({  
 "message": "✅ Question received",  
 "athlete\_id": athlete\_id,  
 "question": question  
 }), 200

### 📄 src\routes\auth\_routes.py

# src/routes/auth\_routes.py  
  
from flask import Blueprint, redirect, request, jsonify  
import traceback  
import requests  
from datetime import datetime, timedelta  
import jwt  
import os  
  
import src.utils.config as config  
from src.services.token\_service import (  
 refresh\_token\_if\_expired,  
 delete\_athlete\_tokens  
)  
from src.db.db\_session import get\_session  
  
auth\_bp = Blueprint("auth", \_\_name\_\_)  
  
  
# -------- Admin Login (POST, API) --------  
@auth\_bp.route("/login", methods=["POST"])  
def admin\_login():  
 try:  
 data = request.get\_json()  
 username = data.get("username")  
 password = data.get("password")  
  
 if username == config.ADMIN\_USER and password == config.ADMIN\_PASS:  
 access\_token = jwt.encode(  
 {  
 "sub": username,  
 "exp": datetime.utcnow() + timedelta(seconds=config.ACCESS\_TOKEN\_EXP)  
 },  
 config.SECRET\_KEY,  
 algorithm="HS256"  
 )  
 refresh\_token = jwt.encode(  
 {  
 "sub": username,  
 "exp": datetime.utcnow() + timedelta(seconds=config.REFRESH\_TOKEN\_EXP)  
 },  
 config.SECRET\_KEY,  
 algorithm="HS256"  
 )  
 return jsonify({  
 "access\_token": access\_token,  
 "refresh\_token": refresh\_token  
 }), 200  
 else:  
 return jsonify({"error": "Unauthorized"}), 401  
 except Exception as e:  
 traceback.print\_exc()  
 return jsonify({"error": str(e)}), 500  
  
  
# -------- Strava OAuth Login (GET, Browser) --------  
@auth\_bp.route("/login", methods=["GET"])  
def strava\_login():  
 """  
 Redirects browser to Strava OAuth authorization URL.  
 """  
 redirect\_uri = os.getenv("STRAVA\_REDIRECT\_URI")  
 client\_id = os.getenv("STRAVA\_CLIENT\_ID")  
 url = (  
 f"https://www.strava.com/oauth/authorize"  
 f"?client\_id={client\_id}"  
 f"&response\_type=code"  
 f"&redirect\_uri={redirect\_uri}"  
 f"&scope=read,activity:read\_all"  
 )  
 return redirect(url)  
  
  
# -------- Strava OAuth Callback --------  
@auth\_bp.route("/callback")  
def callback():  
 from src.services.token\_service import store\_tokens\_from\_callback  
 session = get\_session()  
 try:  
 code = request.args.get("code")  
 if not code:  
 print("❌ Missing code param", flush=True)  
 return "❌ Missing OAuth code", 400  
  
 print(f"➡️ Received OAuth code: {code}", flush=True)  
  
 athlete\_id = store\_tokens\_from\_callback(code, session)  
  
 print(f"✅ Stored token for athlete\_id: {athlete\_id}", flush=True)  
 return f"✅ Token stored for athlete\_id: {athlete\_id}", 200  
  
 except requests.exceptions.HTTPError as e:  
 print(f"🔥 Callback HTTP error: {e}", flush=True)  
 return jsonify({"error": "Strava OAuth token exchange failed"}), 502  
  
 except Exception as e:  
 import traceback  
 print(f"🔥 Callback error: {e}", flush=True)  
 traceback.print\_exc()  
 return f"❌ Callback error: {str(e)}", 500  
  
 finally:  
 session.close()  
  
  
  
  
  
# -------- Token Refresh --------  
@auth\_bp.route("/refresh/<int:athlete\_id>", methods=["POST"])  
def refresh\_token(athlete\_id):  
 session = get\_session()  
 try:  
 auth\_header = request.headers.get("Authorization", "")  
 if not auth\_header.startswith("Bearer "):  
 return jsonify({"error": "Missing or invalid Authorization header"}), 401  
  
 token = auth\_header.split(" ")[1]  
 try:  
 jwt.decode(token, config.SECRET\_KEY, algorithms=["HS256"])  
 except jwt.ExpiredSignatureError:  
 return jsonify({"error": "Refresh token expired"}), 401  
 except jwt.InvalidTokenError:  
 return jsonify({"error": "Invalid token"}), 401  
  
 refreshed = refresh\_token\_if\_expired(session, athlete\_id)  
 return jsonify({"refreshed": refreshed}), 200  
 except Exception as e:  
 traceback.print\_exc()  
 return jsonify({"error": str(e)}), 500  
 finally:  
 session.close()  
  
  
# -------- Logout --------  
@auth\_bp.route("/logout/<int:athlete\_id>", methods=["POST"])  
def logout(athlete\_id):  
 session = get\_session()  
 try:  
 deleted = delete\_athlete\_tokens(session, athlete\_id)  
 return jsonify({"deleted": deleted}), 200  
 except Exception as e:  
 traceback.print\_exc()  
 return jsonify({"error": str(e)}), 500  
 finally:  
 session.close()  
  
  
# -------- Token Monitoring --------  
@auth\_bp.route("/monitor-tokens", methods=["GET"])  
def monitor\_tokens():  
 session = get\_session()  
 try:  
 rows = session.execute("SELECT athlete\_id, expires\_at FROM tokens ORDER BY expires\_at").fetchall()  
 data = [{"athlete\_id": r.athlete\_id, "expires\_at": r.expires\_at} for r in rows]  
 return jsonify(data), 200  
 except Exception as e:  
 traceback.print\_exc()  
 return jsonify({"error": str(e)}), 500  
 finally:  
 session.close()

### 📄 src\routes\health\_routes.py

# src/routes/health\_routes.py  
  
from flask import Blueprint, jsonify  
from sqlalchemy import text  
from src.db.db\_session import get\_session  
  
health\_bp = Blueprint("health", \_\_name\_\_)  
  
@health\_bp.route("/health", methods=["GET"])  
def health\_check():  
 try:  
 session = get\_session()  
 session.execute(text("SELECT 1"))  
 return jsonify({"status": "ok", "db": "connected"}), 200  
 except Exception as e:  
 return jsonify({"status": "error", "db": "disconnected", "error": str(e)}), 500

### 📄 src\scripts\\_\_init\_\_.py

### 📄 src\scripts\activity\_query\_cli.py

import argparse  
from datetime import datetime, timedelta  
from src.db.db\_session import get\_session  
from src.db.dao.activity\_stats\_dao import ActivityStatsDAO  
from src.utils.logger import get\_logger  
from src.utils.config import load\_env  
  
logger = get\_logger(\_\_name\_\_)  
  
def main(athlete\_id: int, lookback\_days: int, mode: str, metric: str = None):  
 load\_env()  
 session = get\_session()  
   
 match mode:  
 case "recent\_activities":  
 data = ActivityStatsDAO.get\_recent\_activities\_by\_athlete(session, athlete\_id, lookback\_days)  
 print(f"\n✅ Retrieved {len(data)} recent activities:")  
 for r in data:  
 print(f"- {r['start\_date']}: {r['name']}")  
  
 case "fastest\_run":  
 r = ActivityStatsDAO.get\_fastest\_run(session, athlete\_id, lookback\_days)  
 print(f"\n🚀 Fastest run: {r['name']} on {r['start\_date']} @ pace {r['pace']:.2f} min/km")  
  
 case "longest\_run":  
 r = ActivityStatsDAO.get\_longest\_run(session, athlete\_id, lookback\_days)  
 print(f"\n🏃‍♂️ Longest run: {r['name']} on {r['start\_date']} — {r['distance\_km']:.2f} km")  
  
 case "total\_distance":  
 end = datetime.utcnow()  
 start = end - timedelta(days=lookback\_days)  
 stats = ActivityStatsDAO.get\_total\_distance(session, athlete\_id, start, end)  
 print(f"\n📊 Total distance: {stats['distance\_km']:.2f} km, Time: {stats['duration\_hours']:.2f} hrs")  
  
 case "weekly\_summary":  
 data = ActivityStatsDAO.get\_weekly\_summary(session, athlete\_id)  
 print("\n📅 Weekly summary:")  
 for d in data:  
 print(f"- Week of {d['week\_start']}: {d['total\_distance\_km']:.2f} km in {d['total\_time\_hr']:.2f} hrs")  
  
 case "hr\_zone\_summary":  
 zones = ActivityStatsDAO.get\_hr\_zone\_summary(session, athlete\_id, lookback\_days)  
 print("\n❤️ HR Zone Summary:")  
 for k, v in zones.items():  
 print(f"- {k}: {v:.2f} min")  
  
 case "treadmill\_stats":  
 stats = ActivityStatsDAO.get\_treadmill\_vs\_outdoor\_stats(session, athlete\_id, lookback\_days)  
 print("\n🏠 vs 🌳:")  
 for k, v in stats.items():  
 print(f"- {k}: {v:.2f} %")  
  
 case "weekday\_pattern":  
 days = ActivityStatsDAO.get\_runs\_by\_weekday(session, athlete\_id, lookback\_days)  
 print("\n🗓️ Runs by weekday:")  
 for k, v in days.items():  
 print(f"- {k}: {v}")  
  
 case "time\_of\_day":  
 times = ActivityStatsDAO.get\_time\_of\_day\_stats(session, athlete\_id, lookback\_days)  
 print("\n🌞 vs 🌙:")  
 for k, v in times.items():  
 print(f"- {k}: {v}")  
  
 case "trend\_metric":  
 if not metric:  
 print("❌ Please provide --metric for trend\_metric mode")  
 return  
 trend = ActivityStatsDAO.get\_trend\_metrics(session, athlete\_id, metric)  
 print(f"\n📈 {metric} trend:")  
 for t in trend:  
 print(f"- {t['period']}: {t['value']:.2f}")  
  
 case \_:  
 print(f"❌ Unknown mode: {mode}")  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 parser = argparse.ArgumentParser()  
 parser.add\_argument("--athlete\_id", type=int, required=True)  
 parser.add\_argument("--lookback\_days", type=int, default=30)  
 parser.add\_argument("--mode", type=str, required=True)  
 parser.add\_argument("--metric", type=str, help="Used for trend\_metric mode")  
 args = parser.parse\_args()  
 main(args.athlete\_id, args.lookback\_days, args.mode, args.metric)

### 📄 src\scripts\debug\_token.py

# scripts/debug\_token.py  
  
import os  
from dotenv import load\_dotenv  
from src.db.db\_session import get\_session  
from src.db.dao.token\_dao import get\_tokens\_sa  
  
load\_dotenv(".env.prod")  
session = get\_session()  
token = get\_tokens\_sa(session, 347085)  
print("🔐 Token from DB:", token)  
session.close()

### 📄 src\scripts\main\_pipeline.py

import argparse  
import logging  
import sys  
import os  
from datetime import datetime  
  
from dotenv import load\_dotenv  
load\_dotenv()  
import src.utils.config as config  
  
from src.db.db\_session import get\_session  
from src.services.ingestion\_orchestrator\_service import (  
 run\_full\_ingestion\_and\_enrichment,  
 ingest\_specific\_activity,  
 ingest\_between\_dates,  
)  
from src.services.token\_service import refresh\_token\_if\_expired  
from src.db.dao.athlete\_dao import get\_all\_athletes  
from src.db.dao.token\_dao import get\_tokens\_sa  
from src.scripts import oauth\_cli  
  
logging.basicConfig(level=logging.INFO)  
logger = logging.getLogger(\_\_name\_\_)  
  
def parse\_date(date\_str):  
 if not date\_str:  
 return None  
 try:  
 return datetime.fromisoformat(date\_str)  
 except ValueError:  
 raise argparse.ArgumentTypeError(f"Invalid date format: {date\_str}. Use YYYY-MM-DD.")  
  
def run\_for\_athlete(session, athlete\_id, args):  
 try:  
 tokens = get\_tokens\_sa(session, athlete\_id)  
 except Exception:  
 tokens = None  
  
 if not tokens:  
 logger.info(f"🔐 No token found for athlete {athlete\_id}. Launching OAuth flow...")  
 oauth\_cli.main(athlete\_id\_override=athlete\_id)  
  
 if args.activity\_id:  
 ingest\_specific\_activity(session, athlete\_id, args.activity\_id)  
 elif args.start\_date and args.end\_date:  
 ingest\_between\_dates(  
 session,  
 athlete\_id,  
 args.start\_date,  
 args.end\_date,  
 batch\_size=args.batch\_size,  
 max\_activities=args.max\_activities,  
 per\_page=args.per\_page  
 )  
 elif args.start\_date or args.end\_date:  
 raise ValueError("Both --start\_date and --end\_date must be provided together.")  
 else:  
 refresh\_token\_if\_expired(session, athlete\_id)  
 run\_full\_ingestion\_and\_enrichment(  
 session,  
 athlete\_id,  
 lookback\_days=args.lookback\_days,  
 batch\_size=args.batch\_size,  
 max\_activities=args.max\_activities,  
 per\_page=args.per\_page  
 )  
  
def main():  
 print("⚙️ FLASK\_ENV =", os.getenv("FLASK\_ENV"))  
 print("⚙️ config.DATABASE\_URL =", config.DATABASE\_URL)  
 parser = argparse.ArgumentParser(description="Orchestrate sync + enrichment")  
  
 group = parser.add\_mutually\_exclusive\_group(required=True)  
 group.add\_argument("--athlete\_id", type=int, help="Run for one athlete")  
 group.add\_argument("--all", action="store\_true", help="Run for all athletes")  
  
 parser.add\_argument("--lookback\_days", type=int, default=30)  
 parser.add\_argument("--batch\_size", type=int, default=10)  
 parser.add\_argument("--activity\_id", type=int, help="Specific activity ID to sync")  
 parser.add\_argument("--start\_date", type=parse\_date, help="Start date YYYY-MM-DD")  
 parser.add\_argument("--end\_date", type=parse\_date, help="End date YYYY-MM-DD")  
 parser.add\_argument("--max\_activities", type=int, help="Maximum number of activities to ingest")  
 parser.add\_argument("--per\_page", type=int, default=200, help="Number of results per API page")  
  
 args = parser.parse\_args()  
 session = get\_session()  
  
 try:  
 if args.all:  
 athletes = get\_all\_athletes(session)  
 if not athletes:  
 logger.warning("No athletes found.")  
 return  
 for athlete in athletes:  
 try:  
 logger.info(f"🔄 Syncing athlete {athlete.strava\_athlete\_id}")  
 run\_for\_athlete(session, athlete.strava\_athlete\_id, args)  
 session.commit()  
 except Exception as e:  
 logger.exception(f"❌ Error for athlete {athlete.strava\_athlete\_id}: {e}")  
 session.rollback()  
 finally:  
 session.expire\_all()  
 else:  
 run\_for\_athlete(session, args.athlete\_id, args)  
 session.commit()  
 except Exception as e:  
 logger.exception(f"❌ Pipeline failed: {e}")  
 sys.exit(1)  
 finally:  
 session.close()  
  
 sys.exit(0)  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 main()

### 📄 src\scripts\manual\_verify.py

import os  
import sys  
from pathlib import Path  
from dotenv import load\_dotenv  
  
# ✅ Adjust path to include `app/` where `src/` resides  
current\_file = Path(\_\_file\_\_).resolve()  
src\_root = current\_file.parents[2] # .../app/  
sys.path.insert(0, str(src\_root))  
  
# ✅ Load environment  
load\_dotenv(dotenv\_path=src\_root / ".env", override=True)  
  
# ✅ Confirm environment loaded  
print(f"[DEBUG] DATABASE\_URL: {os.getenv('DATABASE\_URL')}")  
  
# ✅ Import logic  
from src.db.db\_session import get\_session  
from src.services.ingestion\_orchestrator\_service import run\_full\_ingestion\_and\_enrichment  
  
# ✅ Main entry  
if \_\_name\_\_ == "\_\_main\_\_":  
 athlete\_id = int(input("Enter athlete\_id: "))  
 session = get\_session()  
 result = run\_full\_ingestion\_and\_enrichment(session, athlete\_id)  
 print(result)  
 session.close()

### 📄 src\scripts\oauth\_cli.py

import os  
import time  
import webbrowser  
import requests  
from urllib.parse import urlencode  
from datetime import datetime  
  
from dotenv import load\_dotenv  
load\_dotenv()   
  
from src.db.db\_session import get\_session  
from src.db.models.tokens import Token  
from src.db.dao.token\_dao import get\_tokens\_sa  
  
# Load from environment  
CLIENT\_ID = os.getenv("STRAVA\_CLIENT\_ID")  
CLIENT\_SECRET = os.getenv("STRAVA\_CLIENT\_SECRET")  
REDIRECT\_URI = os.getenv("STRAVA\_REDIRECT\_URI")  
AUTH\_URL = "https://www.strava.com/oauth/authorize"  
STATUS\_URL = os.getenv("STRAVA\_TOKEN\_STATUS\_URL") # Must point to `/auth/token\_status?athlete\_id=...`  
  
def generate\_auth\_url():  
 params = {  
 "client\_id": CLIENT\_ID,  
 "response\_type": "code",  
 "redirect\_uri": REDIRECT\_URI,  
 "approval\_prompt": "force",  
 "scope": "activity:read\_all,profile:read\_all"  
 }  
 return f"{AUTH\_URL}?{urlencode(params)}"  
  
  
def wait\_for\_token(athlete\_id, timeout=120, poll\_interval=5):  
 print(f"⏳ Waiting for token in DB for athlete {athlete\_id}...")  
 session = get\_session()  
 start\_time = time.time()  
 try:  
 while time.time() - start\_time < timeout:  
 tokens = get\_tokens\_sa(session, athlete\_id)  
 if tokens:  
 print("✅ Token found in database.")  
 return True  
 time.sleep(poll\_interval)  
 finally:  
 session.close()  
 raise TimeoutError(f"❌ Timed out waiting for token for athlete {athlete\_id}")  
  
  
  
def authorize\_and\_wait(athlete\_id):  
 print(f"➡️ Opening browser for Strava authorization (athlete\_id={athlete\_id})...")  
 webbrowser.open(generate\_auth\_url())  
  
 if not wait\_for\_token(athlete\_id):  
 raise RuntimeError("❌ Token not received after authorization.")  
  
 print(f"🎯 OAuth flow completed for athlete {athlete\_id}")  
  
# Reusable entrypoint for programmatic use  
def main(athlete\_id\_override=None):  
 athlete\_id = athlete\_id\_override or int(input("Enter athlete\_id: "))  
 authorize\_and\_wait(athlete\_id)  
  
# Only used for manual testing  
if \_\_name\_\_ == "\_\_main\_\_":  
 main()

### 📄 src\scripts\scheduled\_ingest.py

from src.db.db\_session import get\_session  
from src.services.ingestion\_orchestrator\_service import run\_full\_ingestion\_and\_enrichment  
from src.services.token\_service import refresh\_access\_token, refresh\_token\_if\_expired  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 session = get\_session()  
 athlete\_id = 347085  
  
 # 🔁 Force refresh (ensures valid token)  
 refresh\_access\_token(session, athlete\_id)  
 session.commit()  
 session.expire\_all()  
  
 # ✅ Optional: double-check expiry fallback  
 refresh\_token\_if\_expired(session, athlete\_id)  
  
 run\_full\_ingestion\_and\_enrichment(session, athlete\_id, lookback\_days=1)  
  
 session.close()

### 📄 src\services\\_\_init\_\_.py

### 📄 src\services\activity\_service.py

import time  
import json  
import logging  
import os  
from datetime import datetime, timedelta  
from sqlalchemy import text  
from sqlalchemy.exc import SQLAlchemyError  
  
from src.services.token\_service import get\_valid\_token  
from src.db.dao.split\_dao import upsert\_splits  
from src.db.dao.activity\_dao import ActivityDAO  
from src.services.strava\_access\_service import StravaClient  
from src.utils.logger import get\_logger  
import src.utils.config as config  
from src.utils.conversions import convert\_metrics  
from src.db.models.activities import Activity  
  
log = get\_logger(\_\_name\_\_)  
log.setLevel(logging.INFO)  
  
def log\_strava\_payload(activity\_id, activity\_json, zones\_data, streams):  
 try:  
 os.makedirs("debug\_dumps", exist\_ok=True)  
 with open(f"debug\_dumps/strava\_debug\_{activity\_id}.json", "w") as f:  
 json.dump({  
 "activity": activity\_json,  
 "zones": zones\_data,  
 "streams": streams  
 }, f, indent=2)  
 except Exception as e:  
 log.warning(f"⚠️ Could not write debug payload for {activity\_id}: {e}")  
  
def get\_activities\_to\_enrich(session, athlete\_id, limit):  
 result = session.execute(  
 text("""  
 SELECT activity\_id FROM activities  
 WHERE athlete\_id = :athlete\_id AND type = 'Run'  
 ORDER BY start\_date DESC  
 LIMIT :limit  
 """),  
 {"athlete\_id": athlete\_id, "limit": limit}  
 )  
 return [row.activity\_id for row in result.fetchall()]  
  
def enrich\_one\_activity(session, access\_token, activity\_id):  
 try:  
 client = StravaClient(access\_token)  
 retries = 3  
 required\_fields = ["distance", "moving\_time", "average\_speed", "name"]  
 soft\_fields = ["average\_heartrate", "suffer\_score", "max\_speed", "calories"]  
  
 for attempt in range(retries):  
 activity\_json = client.get\_activity(activity\_id)  
 zones\_data = client.get\_hr\_zones(activity\_id)  
 streams = client.get\_streams(activity\_id, keys=["distance", "time", "velocity\_smooth", "heartrate"])  
  
 if all(activity\_json.get(field) for field in required\_fields):  
 break  
 log.warning(f"⚠️ Missing required fields for activity {activity\_id}, retry {attempt + 1}/{retries}...")  
 time.sleep(1)  
 else:  
 raise ValueError(f"❌ Critical data missing after retries for activity {activity\_id}: {[(field, activity\_json.get(field)) for field in required\_fields]}")  
  
 log\_strava\_payload(activity\_id, activity\_json, zones\_data, streams)  
  
 missing\_soft = [f for f in soft\_fields if activity\_json.get(f) is None]  
 if missing\_soft:  
 log.warning(f)  
 #log.warning(f"⚠️ Partial enrichment for activity {activity\_id} — missing: {missing\_soft}")  
  
 log.info(f"➡️ Enriching activity {activity\_id} — {activity\_json.get('name')}")  
 hr\_zone\_pcts = extract\_hr\_zone\_percentages(zones\_data) or [0.0] \* 5  
 update\_activity\_enrichment(session, activity\_id, activity\_json, hr\_zone\_pcts)  
  
 splits = build\_mile\_splits(activity\_id, streams)  
 if splits:  
 upsert\_splits(session, splits)  
 log.info(f"✅ Synced {len(splits)} splits for activity {activity\_id}")  
  
 return True  
 except Exception as e:  
 log.error(f)  
 #log.error(f"🔥 Exception while enriching {activity\_id}: {e}")  
 raise  
  
def enrich\_one\_activity\_with\_refresh(session, athlete\_id, activity\_id, max\_retries=2):  
 for attempt in range(1, max\_retries + 1):  
 try:  
 access\_token = get\_valid\_token(session, athlete\_id)  
 enrich\_one\_activity(session, access\_token, activity\_id)  
 session.expire\_all()  
  
 enriched = session.query(Activity).filter(  
 Activity.activity\_id == activity\_id,  
 Activity.average\_speed.isnot(None),  
 Activity.suffer\_score.isnot(None),  
 Activity.average\_heartrate.isnot(None),  
 Activity.max\_speed.isnot(None),  
 Activity.calories.isnot(None)  
 ).first()  
  
 if enriched:  
 log.info(f"✅ Enrichment succeeded on attempt {attempt} for activity {activity\_id}")  
 return True  
  
 log.warning(f)  
 #log.warning(f"⚠️ Enrichment fields missing on attempt {attempt} for {activity\_id}. Retrying in 5s...")  
 time.sleep(1)  
  
 except Exception as e:  
 #=log.error(f"🔥 Enrichment error on attempt {attempt} for {activity\_id}: {e}")  
 time.sleep(1)  
  
 log.error(f)  
 #log.error(f"❌ All retries failed — Activity {activity\_id} has incomplete enrichment.")  
 raise RuntimeError(f"Enrichment failed for activity {activity\_id}")  
  
def update\_activity\_enrichment(session, activity\_id, activity\_json, hr\_zone\_pcts):  
 conv = convert\_metrics({  
 "distance": activity\_json.get("distance"),  
 "elevation": activity\_json.get("total\_elevation\_gain"),  
 "average\_speed": activity\_json.get("average\_speed"),  
 "max\_speed": activity\_json.get("max\_speed"),  
 "moving\_time": activity\_json.get("moving\_time"),  
 "elapsed\_time": activity\_json.get("elapsed\_time")  
 }, ["distance", "elevation", "average\_speed", "max\_speed", "moving\_time", "elapsed\_time"])  
  
 for key in ["average\_heartrate", "max\_speed", "suffer\_score", "calories"]:  
 if activity\_json.get(key) is None:  
 log.warning(f)  
 #log.warning(f"⚠️ {key} missing from activity {activity\_id}")  
  
 params = {  
 "activity\_id": activity\_id,  
 "name": activity\_json.get("name"),  
 "distance": activity\_json.get("distance"),  
 "moving\_time": activity\_json.get("moving\_time"),  
 "elapsed\_time": activity\_json.get("elapsed\_time"),  
 "elevation": activity\_json.get("total\_elevation\_gain"),  
 "type": activity\_json.get("type"),  
 "avg\_speed": activity\_json.get("average\_speed"),  
 "max\_speed": activity\_json.get("max\_speed"),  
 "suffer\_score": activity\_json.get("suffer\_score"),  
 "average\_heartrate": activity\_json.get("average\_heartrate"),  
 "max\_heartrate": activity\_json.get("max\_heartrate"),  
 "calories": activity\_json.get("calories"),  
 "hr\_zone\_1": hr\_zone\_pcts[0],  
 "hr\_zone\_2": hr\_zone\_pcts[1],  
 "hr\_zone\_3": hr\_zone\_pcts[2],  
 "hr\_zone\_4": hr\_zone\_pcts[3],  
 "hr\_zone\_5": hr\_zone\_pcts[4],  
 \*\*conv  
 }  
  
 session.execute(  
 text("""  
 UPDATE activities SET  
 name = :name,  
 distance = :distance,  
 moving\_time = :moving\_time,  
 elapsed\_time = :elapsed\_time,  
 total\_elevation\_gain = :elevation,  
 type = :type,  
 average\_speed = :avg\_speed,  
 max\_speed = :max\_speed,  
 suffer\_score = :suffer\_score,  
 average\_heartrate = :average\_heartrate,  
 max\_heartrate = :max\_heartrate,  
 calories = :calories,  
 conv\_distance = :conv\_distance,  
 conv\_elevation\_feet = :conv\_elevation\_feet,  
 conv\_avg\_speed = :conv\_avg\_speed,  
 conv\_max\_speed = :conv\_max\_speed,  
 conv\_moving\_time = :conv\_moving\_time,  
 conv\_elapsed\_time = :conv\_elapsed\_time,  
 hr\_zone\_1 = :hr\_zone\_1,  
 hr\_zone\_2 = :hr\_zone\_2,  
 hr\_zone\_3 = :hr\_zone\_3,  
 hr\_zone\_4 = :hr\_zone\_4,  
 hr\_zone\_5 = :hr\_zone\_5  
 WHERE activity\_id = :activity\_id  
 """),  
 params  
 )  
 session.commit()  
  
def extract\_hr\_zone\_percentages(zones\_data):  
 try:  
 for zone\_group in zones\_data:  
 if zone\_group.get("type") == "heartrate":  
 buckets = zone\_group.get("distribution\_buckets", [])  
 times = [b.get("time", 0.0) for b in buckets[:5]]  
 total\_time = sum(times)  
 if total\_time > 0:  
 return [round((t / total\_time) \* 100, 2) for t in times]  
 except Exception as e:  
 log.warning(f"⚠️ HR zone extraction failed: {e}")  
 return [0.0] \* 5  
  
  
def build\_mile\_splits(activity\_id, streams):  
 distances = streams.get("distance", [])  
 times = streams.get("time", [])  
 paces = streams.get("velocity\_smooth", [])  
 hrs = streams.get("heartrate", [])  
  
 splits = []  
 mile\_threshold = 1609.344  
 mile\_index = 1  
 start\_index = 0  
 speed\_threshold = 0.5 # meters/sec to consider moving  
  
 for i, d in enumerate(distances):  
 # Fix: allow small float tolerance at threshold  
 if float(d) < mile\_index \* mile\_threshold - 1e-6:  
 continue  
  
 segment\_distance = float(d) - float(distances[start\_index])  
 elapsed\_time = float(times[i]) - float(times[start\_index])  
  
 # Calculate moving\_time based on threshold  
 moving\_time = 0.0  
 for j in range(start\_index + 1, i + 1):  
 dt = float(times[j]) - float(times[j - 1])  
 if j < len(paces) and float(paces[j]) > speed\_threshold:  
 moving\_time += dt  
  
 avg\_speed = sum(paces[start\_index:i + 1]) / (i + 1 - start\_index) if paces else 0  
 avg\_hr = sum(hrs[start\_index:i + 1]) / (i + 1 - start\_index) if hrs else None  
  
 # Apply rounding to 2 decimal places  
 segment\_distance = round(segment\_distance, 2)  
 avg\_speed = round(avg\_speed, 2)  
 max\_speed\_val = round(max(paces[start\_index:i + 1]), 2) if paces else None  
 avg\_hr = round(avg\_hr, 2) if avg\_hr else None  
  
 conv\_data = convert\_metrics({  
 "distance": segment\_distance,  
 "average\_speed": avg\_speed,  
 "moving\_time": moving\_time,  
 "elapsed\_time": elapsed\_time  
 }, ["distance", "average\_speed", "moving\_time", "elapsed\_time"])  
  
 splits.append({  
 "activity\_id": activity\_id,  
 "lap\_index": mile\_index,  
 "distance": segment\_distance,  
 "elapsed\_time": elapsed\_time,  
 "moving\_time": moving\_time,  
 "average\_speed": avg\_speed,  
 "max\_speed": max\_speed\_val,  
 "start\_index": start\_index,  
 "end\_index": i,  
 "split": mile\_index,  
 "average\_heartrate": avg\_hr,  
 "pace\_zone": None,  
 \*\*conv\_data  
 })  
  
 start\_index = i + 1  
 mile\_index += 1  
  
 return splits  
  
  
  
class ActivityIngestionService:  
 def \_\_init\_\_(self, session, athlete\_id):  
 self.session = session  
 self.athlete\_id = athlete\_id  
 self.\_refresh\_client()  
   
 def \_refresh\_client(self):  
 access\_token = get\_valid\_token(self.session, self.athlete\_id)  
 self.client = StravaClient(access\_token)  
  
 def ingest\_recent(self, lookback\_days, max\_activities=None, per\_page=200):  
 self.\_refresh\_client()  
 after = int((datetime.utcnow() - timedelta(days=lookback\_days)).timestamp())  
 activities = self.client.get\_activities(after=after, per\_page=per\_page, limit=max\_activities)  
 activities = [a for a in activities if a.get("type") == "Run"]  
 return ActivityDAO.upsert\_activities(self.session, self.athlete\_id, activities)  
  
 def ingest\_full\_history(self, lookback\_days=30, max\_activities=None, per\_page=200, dry\_run=False):  
 # 🔁 Get fresh token dynamically  
 access\_token = get\_valid\_token(self.session, self.athlete\_id)  
 client = StravaClient(access\_token)  
  
 after = int((datetime.utcnow() - timedelta(days=lookback\_days)).timestamp())  
 all\_activities = client.get\_activities(after=after, per\_page=per\_page, limit=max\_activities)  
 all\_activities = [a for a in all\_activities if a.get("type") == "Run"]  
   
 if dry\_run:  
 return all\_activities  
  
 if not all\_activities:  
 return 0  
  
 ActivityDAO.upsert\_activities(self.session, self.athlete\_id, all\_activities)  
 return len(all\_activities)  
  
  
 def ingest\_between(self, start\_date, end\_date, max\_activities=None, per\_page=200):  
 self.\_refresh\_client()  
 after = int(start\_date.timestamp())  
 before = int(end\_date.timestamp())  
 activities = self.client.get\_activities(after=after, before=before, per\_page=per\_page, limit=max\_activities)  
 activities = [a for a in activities if a.get("type") == "Run"]  
 return ActivityDAO.upsert\_activities(self.session, self.athlete\_id, activities)  
  
def run\_enrichment\_batch(session, athlete\_id, batch\_size=10):  
 activity\_ids = get\_activities\_to\_enrich(session, athlete\_id, batch\_size)  
 for aid in activity\_ids:  
 enrich\_one\_activity\_with\_refresh(session, athlete\_id, aid)  
 time.sleep(1) # Optional pacing

### 📄 src\services\ingestion\_orchestrator\_service.py

import sys  
import os  
import time  
from pathlib import Path  
from datetime import datetime, timedelta  
from sqlalchemy import exists  
  
sys.path.append(str(Path(\_\_file\_\_).resolve().parents[2])) # adds project root  
  
from src.db.dao.activity\_dao import ActivityDAO  
from src.utils.logger import get\_logger  
from src.services.activity\_service import (  
 ActivityIngestionService,  
 enrich\_one\_activity\_with\_refresh,  
 run\_enrichment\_batch,  
)  
from src.db.dao.token\_dao import get\_tokens\_sa  
from src.services.token\_service import get\_valid\_token  
from src.db.models.activities import Activity  
from src.db.models.tokens import Token  
from src.utils.seeder import seed\_sample\_activity  
  
logger = get\_logger(\_\_name\_\_)  
  
def run\_full\_ingestion\_and\_enrichment(session, athlete\_id, lookback\_days=30, max\_activities=None, batch\_size=10, per\_page=200):  
 logger.info(f"[CRON SYNC] ✅ Sync job started at {datetime.utcnow().isoformat()}")  
  
 logger.info(f"🚀 Starting run\_full\_ingestion\_and\_enrichment for athlete {athlete\_id}")  
  
 tokens = get\_tokens\_sa(session, athlete\_id)  
 if not tokens:  
 logger.warning(f"⚠️ No tokens found for athlete {athlete\_id}. Attempting to seed from .env...")  
  
 access\_token = os.getenv("STRAVA\_ACCESS\_TOKEN")  
 refresh\_token = os.getenv("STRAVA\_REFRESH\_TOKEN")  
 expires\_at = int(os.getenv("STRAVA\_EXPIRES\_AT", time.time() + 3600))  
  
 if access\_token and refresh\_token:  
 token = Token(  
 athlete\_id=athlete\_id,  
 access\_token=access\_token,  
 refresh\_token=refresh\_token,  
 expires\_at=expires\_at,  
 )  
 session.merge(token)  
 session.commit()  
 logger.info(f"✅ Seeded Strava token from .env for athlete {athlete\_id}")  
 else:  
 logger.warning("⚠️ .env credentials not found. Using fallback seeding for mock activity")  
 seed\_sample\_activity(session, athlete\_id)  
 session.commit()  
 logger.info(f"✅ Seeded mock activity for athlete {athlete\_id}")  
 return {"synced": 1, "enriched": 0}  
  
 access\_token = get\_valid\_token(session, athlete\_id)  
 logger.info(f"🟢 Retrieved valid access token for athlete {athlete\_id}")  
  
 logger.info(f"🗖️ Fetching activities for the past {lookback\_days} days from Strava...")  
 service = ActivityIngestionService(session, athlete\_id)  
 all\_fetched = service.ingest\_full\_history(lookback\_days=lookback\_days, max\_activities=max\_activities, per\_page=per\_page, dry\_run=True)  
  
 if not all\_fetched:  
 logger.info("📬 No activities returned from Strava.")  
 return {"synced": 0, "enriched": 0}  
  
 fetched\_ids = [a["id"] for a in all\_fetched]  
 existing\_ids = {r[0] for r in session.query(Activity.activity\_id).filter(Activity.activity\_id.in\_(fetched\_ids)).all()}  
 new\_activities = [a for a in all\_fetched if a["id"] not in existing\_ids]  
  
 if not new\_activities:  
 logger.info("✅ All activities from Strava already exist in the database.")  
 return {"synced": 0, "enriched": 0}  
  
 logger.info(f"⬇️ Ingesting {len(new\_activities)} new activities...")  
 ActivityDAO.upsert\_activities(session, athlete\_id, new\_activities)  
 logger.info(f"✅ Synced {len(new\_activities)} activities")  
  
 enriched = run\_enrichment\_batch(session, athlete\_id, batch\_size=batch\_size)  
 logger.info(f"✅ Enriched {enriched} activities")  
  
 logger.info(f"🎯 Ingestion + enrichment complete for athlete {athlete\_id}")  
 return {"synced": len(new\_activities), "enriched": enriched}  
  
def ingest\_specific\_activity(session, athlete\_id, activity\_id):  
 logger.info(f"⏳ Ingesting specific activity {activity\_id} for athlete {athlete\_id}")  
 service = ActivityIngestionService(session, athlete\_id)  
 activity\_data = service.client.get\_activity(activity\_id)  
 if not activity\_data:  
 logger.warning(f"Activity {activity\_id} not found for athlete {athlete\_id}")  
 return 0  
  
 ActivityDAO.upsert\_activities(session, athlete\_id, [activity\_data])  
 logger.info(f"✅ Activity {activity\_id} upserted")  
  
 try:  
 enrich\_one\_activity\_with\_refresh(session, athlete\_id, activity\_id)  
 logger.info(f"✅ Activity {activity\_id} enriched")  
 except Exception as e:  
 logger.error(f"❌ Skipping enrichment for activity {activity\_id} due to error: {e}")  
  
 return 1  
  
def ingest\_between\_dates(session, athlete\_id, start\_date: datetime, end\_date: datetime, batch\_size=10, max\_activities=None, per\_page=200):  
 logger.info(f"⏳ Ingesting activities for athlete {athlete\_id} between {start\_date} and {end\_date}")  
 service = ActivityIngestionService(session, athlete\_id)  
 activities = service.client.get\_activities(  
 after=int(start\_date.timestamp()),  
 before=int(end\_date.timestamp()),  
 per\_page=per\_page,  
 limit=max\_activities  
 )  
  
 activities = [a for a in activities if a.get("type") == "Run"]  
  
 if not activities:  
 logger.warning(f"No Run activities found between dates for athlete {athlete\_id}")  
 return 0  
  
 ActivityDAO.upsert\_activities(session, athlete\_id, activities)  
 logger.info(f"✅ Upserted {len(activities)} activities")  
  
 count = 0  
 for act in activities:  
 try:  
 enrich\_one\_activity\_with\_refresh(session, athlete\_id, act["id"])  
 count += 1  
 if count % batch\_size == 0:  
 logger.info(f"Processed {count} activities for enrichment")  
 except Exception:  
 continue  
  
 logger.info(f"✅ Enriched {count} activities")  
 return count  
  
def ingest\_today(session, athlete\_id):  
 today = datetime.utcnow()  
 start = datetime(today.year, today.month, today.day)  
 end = start + timedelta(days=1)  
 return ingest\_between\_dates(session, athlete\_id, start\_date=start, end\_date=end)

### 📄 src\services\strava\_access\_service.py

import requests  
import time  
from src.utils.config import STRAVA\_API\_BASE\_URL  
  
  
class StravaClient:  
 def \_\_init\_\_(self, access\_token):  
 self.access\_token = access\_token  
  
 def \_request\_with\_backoff(self, method, url, \*\*kwargs):  
 max\_retries = 5  
 backoff = 10 # Start with 10 sec backoff  
  
 headers = {"Authorization": f"Bearer {self.access\_token}"}  
  
 print(f"📤 Strava Request: {method} {url}")  
 print(f"📤 Headers: {headers}")  
 if "params" in kwargs:  
 print(f"📤 Params: {kwargs['params']}")  
  
 for attempt in range(max\_retries):  
 response = requests.request(  
 method,  
 url,  
 headers=headers,  
 \*\*kwargs  
 )  
  
 if response.status\_code == 429:  
 print(f"⚠️ Rate limit hit (429). Backing off {backoff} seconds...")  
 time.sleep(backoff)  
 backoff \*= 2  
 continue  
  
 if response.status\_code == 401:  
 print(f"❌ Unauthorized! Token: {self.access\_token}")  
  
 response.raise\_for\_status()  
 return response.json()  
  
 raise RuntimeError("Exceeded max retries due to repeated 429 errors")  
  
  
 def get\_activities(self, after=None, before=None, limit=None, per\_page=200):  
 url = f"{STRAVA\_API\_BASE\_URL}/athlete/activities"  
 all\_activities = []  
 page = 1  
  
 while True:  
 params = {  
 "page": page,  
 "per\_page": per\_page  
 }  
 if after:  
 params["after"] = after  
 if before:  
 params["before"] = before  
  
 batch = self.\_request\_with\_backoff("GET", url, params=params)  
  
 if not batch:  
 break  
  
 all\_activities.extend(batch)  
  
 if limit and len(all\_activities) >= limit:  
 return all\_activities[:limit]  
  
 page += 1  
  
 return all\_activities  
  
 def get\_activity(self, activity\_id):  
 url = f"{STRAVA\_API\_BASE\_URL}/activities/{activity\_id}"  
 return self.\_request\_with\_backoff("GET", url)  
  
 def get\_hr\_zones(self, activity\_id):  
 url = f"{STRAVA\_API\_BASE\_URL}/activities/{activity\_id}/zones"  
 try:  
 return self.\_request\_with\_backoff("GET", url)  
 except requests.exceptions.HTTPError as e:  
 if e.response.status\_code == 404:  
 return None  
 raise  
  
 def get\_splits(self, activity\_id):  
 url = f"{STRAVA\_API\_BASE\_URL}/activities/{activity\_id}/laps"  
 try:  
 return self.\_request\_with\_backoff("GET", url)  
 except requests.exceptions.HTTPError as e:  
 if e.response.status\_code == 404:  
 return []  
 raise  
  
 def get\_streams(self, activity\_id, keys):  
 url = f"{STRAVA\_API\_BASE\_URL}/activities/{activity\_id}/streams"  
 resp = self.\_request\_with\_backoff("GET", url, params={"keys": ",".join(keys), "key\_by\_type": "true"})  
  
 streams = {}  
 for key in keys:  
 raw = resp.get(key)  
 if isinstance(raw, dict) and "data" in raw:  
 try:  
 streams[key] = [  
 float(x) for x in raw["data"]  
 if isinstance(x, (int, float, str)) and str(x).replace('.', '', 1).isdigit()  
 ]  
 except Exception as e:  
 print(f"Failed to convert stream {key}: {e}")  
 streams[key] = []  
 else:  
 streams[key] = []  
 return streams

### 📄 src\services\token\_service.py

import logging  
import requests  
from datetime import datetime  
  
import src.utils.config as config  
from src.db.dao.token\_dao import get\_tokens\_sa, insert\_token\_sa  
from src.db.models.tokens import Token  
  
logger = logging.getLogger(\_\_name\_\_)  
  
from src.db.db\_session import get\_session as db\_get\_session  
  
def get\_session():  
 return db\_get\_session()  
  
  
def is\_expired(expires\_at):  
 return expires\_at <= int(datetime.utcnow().timestamp())  
  
  
def get\_valid\_token(session, athlete\_id):  
 token\_data = get\_tokens\_sa(session, athlete\_id)  
 if not token\_data:  
 raise RuntimeError(f"No tokens found for athlete {athlete\_id}")  
  
 if is\_expired(token\_data["expires\_at"]):  
 return refresh\_access\_token(session, athlete\_id)["access\_token"]  
  
 return token\_data["access\_token"]  
  
  
def refresh\_access\_token(session, athlete\_id):  
 token\_data = get\_tokens\_sa(session, athlete\_id)  
 if not token\_data:  
 raise RuntimeError(f"No refresh token available for athlete {athlete\_id}")  
  
 tokens = refresh\_token\_static(token\_data["refresh\_token"])  
 print("🔁 Refreshed token:", tokens, flush=True)  
 insert\_token\_sa(  
 session=session,  
 athlete\_id=athlete\_id,  
 access\_token=tokens["access\_token"],  
 refresh\_token=tokens["refresh\_token"],  
 expires\_at=tokens["expires\_at"]  
 )  
 return tokens  
  
  
def refresh\_token\_static(refresh\_token):  
 response = requests.post(  
 "https://www.strava.com/api/v3/oauth/token",  
 data={  
 "client\_id": config.STRAVA\_CLIENT\_ID,  
 "client\_secret": config.STRAVA\_CLIENT\_SECRET,  
 "grant\_type": "refresh\_token",  
 "refresh\_token": refresh\_token,  
 },  
 )  
 response.raise\_for\_status()  
 return response.json()  
  
  
def refresh\_token\_if\_expired(session, athlete\_id):  
 token = session.query(Token).filter\_by(athlete\_id=athlete\_id).first()  
 if not token:  
 raise ValueError(f"No token found for athlete ID {athlete\_id}")  
  
 now = datetime.utcnow().timestamp()  
 if token.expires\_at <= now:  
 refreshed = refresh\_token\_static(token.refresh\_token)  
 token.access\_token = refreshed["access\_token"]  
 token.refresh\_token = refreshed["refresh\_token"]  
 token.expires\_at = refreshed["expires\_at"]  
 session.commit()  
 return True  
 return False  
  
  
def delete\_athlete\_tokens(session, athlete\_id):  
 deleted = session.query(Token).filter\_by(athlete\_id=athlete\_id).delete()  
 session.commit()  
 return deleted  
  
  
# ✅ MISSING FUNCTION: Store tokens after OAuth callback  
def store\_tokens\_from\_callback(code, session):  
 print(f"🔁 Exchanging code for tokens: {code}", flush=True)  
 response = requests.post(  
 "https://www.strava.com/api/v3/oauth/token",  
 data={  
 "client\_id": config.STRAVA\_CLIENT\_ID,  
 "client\_secret": config.STRAVA\_CLIENT\_SECRET,  
 "code": code,  
 "grant\_type": "authorization\_code"  
 },  
 )  
 response.raise\_for\_status()  
 token\_data = response.json()  
  
 athlete = token\_data.get("athlete")  
 if not athlete or "id" not in athlete:  
 raise KeyError("❌ Strava callback response missing athlete ID")  
  
 athlete\_id = athlete["id"]  
 insert\_token\_sa(  
 session=session,  
 athlete\_id=athlete\_id,  
 access\_token=token\_data["access\_token"],  
 refresh\_token=token\_data["refresh\_token"],  
 expires\_at=token\_data["expires\_at"]  
 )  
  
 print(f"✅ Token stored for athlete: {athlete\_id}", flush=True)  
 return athlete\_id  
  
  
def logout\_user(token):  
 # No-op logout function (used for UI logout tracking)  
 print(f"[LOGOUT] Token logged out: {token}")  
   
   
   
  
import jwt  
  
def login\_user(data):  
 if data["username"] != config.ADMIN\_USER or data["password"] != config.ADMIN\_PASS:  
 raise PermissionError("Invalid credentials")  
  
 session = get\_session()  
 token\_payload = {"sub": "admin"}  
 access\_token = jwt.encode(token\_payload, config.SECRET\_KEY, algorithm="HS256")  
 refresh\_token = jwt.encode({"sub": "admin", "type": "refresh"}, config.JWT\_SECRET, algorithm="HS256")  
  
 insert\_token\_sa(  
 session=session,  
 athlete\_id=0, # Assuming admin does not have athlete\_id  
 access\_token=access\_token,  
 refresh\_token=refresh\_token,  
 expires\_at=int(datetime.utcnow().timestamp()) + 3600,  
 )  
  
 return access\_token, refresh\_token  
  
  
  
  
  
  
  
def refresh\_token(encoded\_refresh\_token):  
 try:  
 payload = jwt.decode(encoded\_refresh\_token, config.SECRET\_KEY, algorithms=["HS256"])  
 if payload.get("type") != "refresh":  
 raise PermissionError("Invalid token type")  
 except (jwt.ExpiredSignatureError, jwt.InvalidTokenError):  
 raise PermissionError("Invalid or expired refresh token")  
  
 session = get\_session()  
 token\_data = get\_tokens\_sa(session, config.ADMIN\_ATHLETE\_ID)  
 if not token\_data:  
 raise PermissionError("No refresh token found")  
  
 new\_tokens = refresh\_token\_static(token\_data["refresh\_token"])  
 insert\_token\_sa(  
 session=session,  
 athlete\_id=config.ADMIN\_ATHLETE\_ID,  
 access\_token=new\_tokens["access\_token"],  
 refresh\_token=new\_tokens["refresh\_token"],  
 expires\_at=new\_tokens["expires\_at"]  
 )  
 return new\_tokens["access\_token"]  
  
  
def exchange\_code\_for\_token(code):  
 response = requests.post(  
 "https://www.strava.com/api/v3/oauth/token",  
 data={  
 "client\_id": config.STRAVA\_CLIENT\_ID,  
 "client\_secret": config.STRAVA\_CLIENT\_SECRET,  
 "code": code,  
 "grant\_type": "authorization\_code"  
 },  
 )  
 response.raise\_for\_status()  
 return response.json()  
  
  
def get\_authorization\_url():  
 redirect\_uri = config.STRAVA\_REDIRECT\_URI  
 client\_id = config.STRAVA\_CLIENT\_ID  
 url = (  
 f"https://www.strava.com/oauth/authorize"  
 f"?client\_id={client\_id}"  
 f"&response\_type=code"  
 f"&redirect\_uri={redirect\_uri}"  
 f"&scope=read,activity:read\_all"  
 )  
 return url

### 📄 src\utils\config.py

import os  
from dotenv import load\_dotenv  
  
# ----- Dynamic .env loading logic -----  
  
# Use FLASK\_ENV or fallback to RAILWAY\_ENVIRONMENT or default to "development"  
env\_mode = os.getenv("FLASK\_ENV") or os.getenv("RAILWAY\_ENVIRONMENT") or "development"  
  
if env\_mode == "testing":  
 env\_file = ".env.test"  
elif env\_mode == "production":  
 env\_file = ".env.prod"  
else:  
 env\_file = ".env"  
  
# Load the selected environment file  
load\_dotenv(env\_file, override=True)  
print(f"✅ Loaded environment: {env\_file}")  
  
# ----- OAuth / Strava -----  
STRAVA\_CLIENT\_ID = os.getenv("STRAVA\_CLIENT\_ID")  
STRAVA\_CLIENT\_SECRET = os.getenv("STRAVA\_CLIENT\_SECRET")  
STRAVA\_REDIRECT\_URI = os.getenv("STRAVA\_REDIRECT\_URI") or os.getenv("REDIRECT\_URI")  
STRAVA\_API\_BASE\_URL = "https://www.strava.com/api/v3"  
  
# ----- Token Expiry -----  
ACCESS\_TOKEN\_EXP = int(os.getenv("ACCESS\_TOKEN\_EXP", 900)) # 15 min  
REFRESH\_TOKEN\_EXP = int(os.getenv("REFRESH\_TOKEN\_EXP", 604800)) # 7 days  
  
# ----- JWT / Auth -----  
SECRET\_KEY = os.getenv("SECRET\_KEY", "dev")  
ADMIN\_USER = os.getenv("ADMIN\_USER")  
ADMIN\_PASS = os.getenv("ADMIN\_PASS")  
ADMIN\_ATHLETE\_ID = 0 # Constant for system user  
  
# ----- Database -----  
DATABASE\_URL = os.getenv("DATABASE\_URL")  
  
# ----- Internal API / Jobs -----  
CRON\_SECRET\_KEY = os.getenv("CRON\_SECRET\_KEY")  
INTERNAL\_API\_KEY = os.getenv("INTERNAL\_API\_KEY")  
  
# ----- Misc -----  
PORT = int(os.getenv("PORT", 5000))  
IS\_LOCAL = os.getenv("IS\_LOCAL", "false").lower() == "true"  
  
JWT\_SECRET = SECRET\_KEY

### 📄 src\utils\conversions.py

def meters\_to\_miles(meters):  
 return round(meters / 1609.344, 2) if meters is not None else None  
  
def meters\_to\_feet(meters):  
 return round(meters \* 3.28084, 1) if meters is not None else None  
  
def mps\_to\_min\_per\_mile(mps):  
 return round(26.8224 / mps, 2) if mps and mps > 0 else None  
  
def format\_seconds\_to\_hms(seconds):  
 if seconds is None:  
 return None  
 try:  
 seconds = int(seconds)  
 except (ValueError, TypeError):  
 return None  
 minutes, sec = divmod(seconds, 60)  
 hours, minutes = divmod(minutes, 60)  
 return f"{hours}:{minutes:02}:{sec:02}" if hours > 0 else f"{minutes}:{sec:02}"  
  
def safe\_float(val):  
 try:  
 return float(val)  
 except (ValueError, TypeError):  
 return None  
  
def safe\_int(val):  
 try:  
 return int(val)  
 except (ValueError, TypeError):  
 return None  
  
def convert\_metrics(data: dict, fields: list[str]) -> dict:  
 conversions = {}  
 if "distance" in fields:  
 conversions["conv\_distance"] = meters\_to\_miles(safe\_float(data.get("distance")))  
 if "elevation" in fields:  
 conversions["conv\_elevation\_feet"] = meters\_to\_feet(safe\_float(data.get("elevation")))  
 if "average\_speed" in fields:  
 conversions["conv\_avg\_speed"] = mps\_to\_min\_per\_mile(safe\_float(data.get("average\_speed")))  
 if "max\_speed" in fields:  
 conversions["conv\_max\_speed"] = mps\_to\_min\_per\_mile(safe\_float(data.get("max\_speed")))  
 if "moving\_time" in fields:  
 conversions["conv\_moving\_time"] = format\_seconds\_to\_hms(safe\_int(data.get("moving\_time")))  
 if "elapsed\_time" in fields:  
 conversions["conv\_elapsed\_time"] = format\_seconds\_to\_hms(safe\_int(data.get("elapsed\_time")))  
 return conversions

### 📄 src\utils\db\_check.py

# db\_check.py  
  
import os  
from sqlalchemy import create\_engine, text  
from dotenv import load\_dotenv  
  
# Load environment variables  
load\_dotenv()  
  
DATABASE\_URL = os.getenv("DATABASE\_URL")  
print("📡 Testing DATABASE\_URL:", DATABASE\_URL)  
  
# Create engine and attempt connection  
engine = create\_engine(DATABASE\_URL)  
  
try:  
 with engine.connect() as conn:  
 result = conn.execute(text("SELECT 1")) # ✅ Use text() for SQLAlchemy 2.0+  
 print("✅ DB connection succeeded:", result.fetchone())  
except Exception as e:  
 print("❌ DB connection failed:", str(e))

### 📄 src\utils\generate\_gpt\_handoff\_summary.py

from docx import Document  
from docx.shared import Pt  
  
OUTPUT\_DOCX = "SmartCoach\_GPT\_Handoff\_Summary\_CLEAN.docx"  
  
def add\_heading(doc, text, level):  
 doc.add\_heading(text, level=level)  
  
def add\_paragraph(doc, text):  
 doc.add\_paragraph(text)  
  
def generate\_gpt\_handoff\_summary():  
 doc = Document()  
  
 add\_heading(doc, "✅ SmartCoach – GPT Handoff Summary", level=1)  
 add\_paragraph(doc, "This document was generated to bootstrap a Custom GPT session with complete project context.")  
  
 # Last Known Good State  
 add\_heading(doc, "🏁 Last known good state:", level=2)  
 add\_paragraph(doc, "• Tag: v1.0.0")  
 add\_paragraph(doc, "• Deployment: Railway (web-production-c4329.up.railway.app)")  
 add\_paragraph(doc, "• OAuth tested: ✅")  
 add\_paragraph(doc, "• DB Connected: ✅")  
  
 # Environment  
 add\_heading(doc, "🔐 Environment Settings:", level=2)  
 add\_paragraph(doc, "• ADMIN\_USER=admin")  
 add\_paragraph(doc, "• REDIRECT\_URI=https://web-production-c4329.up.railway.app/oauth/callback")  
 add\_paragraph(doc, "• DATABASE\_URL=(set in Railway)")  
 add\_paragraph(doc, "• SECRET\_KEY, INTERNAL\_API\_KEY, CRON\_SECRET\_KEY defined")  
  
 # Architecture  
 add\_heading(doc, "🔧 Architecture Notes:", level=2)  
 add\_paragraph(doc, "• Flask API deployed on Railway")  
 add\_paragraph(doc, "• PostgreSQL managed via Railway plugin")  
 add\_paragraph(doc, "• JWT-based authentication and user sessions")  
 add\_paragraph(doc, "• Strava OAuth 2.0 integration and webhook registration planned")  
  
 # Coaching Intelligence Objective  
 add\_heading(doc, "🎯 Coaching Intelligence Objectives:", level=2)  
 add\_paragraph(doc, "• Build personalized weekly training plans")  
 add\_paragraph(doc, "• Track Strava-recorded performance")  
 add\_paragraph(doc, "• Monitor deviations and adapt based on user behavior")  
 add\_paragraph(doc, "• Support natural conversation for advising and adjusting")  
  
 # System Components  
 add\_heading(doc, "🧱 System Components:", level=2)  
 add\_paragraph(doc, "• Custom GPT logic: planning, feedback, and conversation")  
 add\_paragraph(doc, "• PostgreSQL DB storing plan and activity data")  
 add\_paragraph(doc, "• Strava Sync service")  
 add\_paragraph(doc, "• Planned: Training plan generator, weekly comparator")  
  
 # Known Issues  
 add\_heading(doc, "⚠️ Known Issues:", level=2)  
 add\_paragraph(doc, "• None at last deploy. Strava activity fetch untested.")  
  
 # Tasks  
 add\_heading(doc, "📌 Next Tasks:", level=2)  
 add\_paragraph(doc, "1. Test full Strava flow: code -> token -> activity fetch")  
 add\_paragraph(doc, "2. Implement auto-sync")  
 add\_paragraph(doc, "3. Add athlete-to-user ID mapping")  
 add\_paragraph(doc, "4. Connect activity analysis")  
 add\_paragraph(doc, "5. Ship Phase 2 readiness")  
  
 # GPT Boot Prompt  
 add\_heading(doc, "🧠 GPT Boot Prompt", level=2)  
 add\_paragraph(doc, "Create a Custom GPT with the following context:")  
 add\_paragraph(doc, "- Name: SmartCoachDev")  
 add\_paragraph(doc, "- Role: Flask engineer + PM for Smart Marathon Coach API")  
 add\_paragraph(doc, "- Accesses: JWT auth, Strava OAuth, Railway deploy logs, pg DB")  
 add\_paragraph(doc, "- Code base starts in: /src, /templates, /scripts")  
 add\_paragraph(doc, "- Current live env: https://web-production-c4329.up.railway.app")  
 add\_paragraph(doc, "- Start by reviewing recent work, then continue with task #1: Test full Strava activity flow.")  
 add\_paragraph(doc, "- Reference: ‘Smart Coach - Project Reference.docx’ for architecture, history, and schema.")  
  
  
 from docx import Document as DocxDocument  
  
 def append\_docx\_content(target\_doc, source\_path):  
 source\_doc = DocxDocument(source\_path)  
 for element in source\_doc.element.body:  
 target\_doc.element.body.append(element)  
  
 # At the end of generate\_gpt\_handoff\_summary():  
 try:  
 append\_docx\_content(doc, "final\_project\_map.docx")  
 print("✅ Appended folder/code map from final\_project\_map.docx")  
 except Exception as e:  
 print(f"⚠️ Could not append code map: {e}")  
  
  
  
  
  
  
 doc.save(OUTPUT\_DOCX)  
 print(f"✅ Summary written to {OUTPUT\_DOCX}")  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 generate\_gpt\_handoff\_summary()

### 📄 src\utils\gpt\_ops.py

# src/utils/gpt\_ops.py  
  
import os  
from flask import Flask  
from src.db.base\_model import get\_session  
from src.db.dao.task\_dao import create\_task, update\_task\_status, delete\_task  
  
# Optional: load app context if needed  
  
def init\_flask\_context():  
 from src.app import create\_app  
 app = create\_app({"TESTING": True})  
 ctx = app.app\_context()  
 ctx.push()  
  
# Check if GPT is allowed to modify DB  
if os.getenv("GPT\_CAN\_MUTATE\_DB", "false").lower() == "true":  
 init\_flask\_context()  
else:  
 raise RuntimeError("GPT task creation is disabled by config. Set GPT\_CAN\_MUTATE\_DB=true in your .env.")  
  
  
def create\_task\_from\_gpt(title, user\_id=1, status="pending", milestone=None, labels=None, is\_icebox=False, details=None):  
 session = get\_session()  
 try:  
 task\_id = create\_task(  
 session,  
 user\_id=user\_id,  
 title=title,  
 status=status,  
 milestone=milestone,  
 labels=labels,  
 is\_icebox=is\_icebox,  
 details=details,  
 )  
 print(f"✅ GPT created task #{task\_id}: {title}")  
 return task\_id  
 except Exception as e:  
 print(f"❌ GPT failed to create task: {e}")  
 finally:  
 session.close()  
  
  
def update\_task\_status\_from\_gpt(task\_id, status=None, labels=None, is\_icebox=None, details=None):  
 session = get\_session()  
 try:  
 update\_task\_status(  
 session,  
 task\_id=task\_id,  
 status=status,  
 labels=labels,  
 is\_icebox=is\_icebox,  
 details=details,  
 )  
 print(f"✅ GPT updated task #{task\_id}")  
 except Exception as e:  
 print(f"❌ GPT failed to update task #{task\_id}: {e}")  
 finally:  
 session.close()  
  
  
def delete\_task\_by\_id\_from\_gpt(task\_id):  
 session = get\_session()  
 try:  
 delete\_task(session, task\_id)  
 print(f"🗑️ GPT deleted task #{task\_id}")  
 except Exception as e:  
 print(f"❌ GPT failed to delete task #{task\_id}: {e}")  
 finally:  
 session.close()

### 📄 src\utils\jwt\_utils.py

import jwt  
from functools import wraps  
from flask import request, jsonify, current\_app  
  
import src.utils.config as config  
  
  
def require\_auth(f):  
 @wraps(f)  
 def decorated(\*args, \*\*kwargs):  
 # ✅ Internal service key override  
 internal\_key = request.headers.get("X-Internal-Key")  
  
 if internal\_key and config.INTERNAL\_API\_KEY and internal\_key == config.INTERNAL\_API\_KEY:  
 request.user = {  
 "user\_id": "internal",  
 "is\_internal": True # ✅ Enable admin privileges  
 }  
 return f(\*args, \*\*kwargs)  
  
 # 🔐 Fallback to regular Bearer token auth  
 auth\_header = request.headers.get("Authorization")  
 if not auth\_header or not auth\_header.lower().startswith("bearer "):  
 return jsonify({"error": "Authorization header missing"}), 401  
  
 token = auth\_header.split(" ")[1]  
 try:  
 payload = jwt.decode(token, config.SECRET\_KEY, algorithms=["HS256"])  
 user\_id = payload.get("sub")  
 if not user\_id:  
 return jsonify({"error": "Token missing subject (sub)"}), 401  
  
 request.user = {  
 "user\_id": user\_id,  
 "is\_internal": user\_id == "internal"  
 }  
 except jwt.ExpiredSignatureError:  
 return jsonify({"error": "Token expired"}), 401  
 except jwt.InvalidTokenError:  
 return jsonify({"error": "Invalid token"}), 401  
  
 return f(\*args, \*\*kwargs)  
 return decorated  
  
  
def decode\_token(token: str) -> dict:  
 """Decode JWT without expiration check (for internal inspection)."""  
 try:  
 return jwt.decode(token, config.SECRET\_KEY, algorithms=["HS256"], options={"verify\_exp": False})  
 except jwt.DecodeError:  
 raise ValueError("Invalid token format")

### 📄 src\utils\logger.py

import logging  
import sys  
  
def get\_logger(name=\_\_name\_\_):  
 logger = logging.getLogger(name)  
 logger.setLevel(logging.INFO)  
  
 if not logger.handlers:  
 # Console handler with UTF-8 support  
 console\_handler = logging.StreamHandler(sys.stdout)  
 console\_handler.setLevel(logging.INFO)  
 console\_formatter = logging.Formatter("%(asctime)s %(levelname)s %(message)s")  
 console\_handler.setFormatter(console\_formatter)  
 logger.addHandler(console\_handler)  
  
 # File handler with UTF-8 encoding  
 file\_handler = logging.FileHandler("activity\_ingestion.log", encoding="utf-8")  
 file\_handler.setLevel(logging.ERROR)  
 file\_formatter = logging.Formatter("%(asctime)s %(levelname)s %(message)s")  
 file\_handler.setFormatter(file\_formatter)  
 logger.addHandler(file\_handler)  
  
 return logger

### 📄 src\utils\map\_and\_extract\_Railway.py

import os  
from docx import Document  
from docx.shared import Pt, RGBColor  
from docx.oxml.ns import qn  
  
ROOT\_DIR = r"C:\Users\andre\projects\railway-pg-test"  
OUTPUT\_DOCX = "final\_project\_map.docx"  
  
EXCLUDE\_DIRS = {'venv', '\_\_pycache\_\_', '.git', '.mypy\_cache', '.pytest\_cache'}  
EXCLUDE\_SUFFIXES = {'.dist-info', '.egg-info'}  
EXCLUDE\_FILES = {'.env'}  
INCLUDE\_EXTENSIONS = {'.py', '.md', '.txt', '.html', '.css', '.js'} # Excludes JSON  
  
def should\_exclude\_dir(name):  
 return name in EXCLUDE\_DIRS or any(name.endswith(suffix) for suffix in EXCLUDE\_SUFFIXES)  
  
def should\_include\_file(entry):  
 ext = os.path.splitext(entry)[1]  
 return ext in INCLUDE\_EXTENSIONS and entry not in EXCLUDE\_FILES  
  
def icon\_for(entry, is\_dir):  
 if is\_dir:  
 return "📁"  
 elif entry.endswith(".py"):  
 return "🐍"  
 else:  
 return "📄"  
  
def read\_file\_content(filepath):  
 try:  
 with open(filepath, "r", encoding="utf-8") as f:  
 return f.readlines()  
 except:  
 return None  
  
def add\_code\_block(doc, lines):  
 para = doc.add\_paragraph()  
 para.paragraph\_format.line\_spacing = 1.0  
 para.paragraph\_format.space\_before = Pt(0)  
 para.paragraph\_format.space\_after = Pt(0)  
  
 for i, line in enumerate(lines):  
 run = para.add\_run(line if line.endswith('\n') else line + '\n')  
 run.font.name = 'Consolas'  
 run.font.size = Pt(9)  
 run.font.color.rgb = RGBColor(51, 51, 51) # #333333  
 run.\_element.rPr.rFonts.set(qn('w:eastAsia'), 'Consolas')  
  
def apply\_folder\_style(paragraph):  
 if not paragraph.runs:  
 return  
 run = paragraph.runs[0]  
 run.font.name = 'Consolas'  
 run.font.size = Pt(9)  
 run.font.color.rgb = RGBColor(51, 51, 51)  
 run.\_element.rPr.rFonts.set(qn('w:eastAsia'), 'Consolas')  
 paragraph.paragraph\_format.space\_before = Pt(0)  
 paragraph.paragraph\_format.space\_after = Pt(0)  
 paragraph.paragraph\_format.line\_spacing = 1.0  
  
def write\_project\_map(root\_dir, output\_docx):  
 doc = Document()  
 doc.add\_heading("📁 Folder & File Structure", level=1)  
  
 folder\_map\_lines = []  
 code\_blocks = []  
  
 def scan\_structure(path, level=0):  
 try:  
 entries = sorted(os.listdir(path))  
 except PermissionError:  
 return  
 for entry in entries:  
 if should\_exclude\_dir(entry):  
 continue  
 full\_path = os.path.join(path, entry)  
 is\_dir = os.path.isdir(full\_path)  
 indent = " " \* level  
 icon = icon\_for(entry, is\_dir)  
 line = f"{indent}{icon} {entry}/" if is\_dir else f"{indent}{icon} {entry}"  
 folder\_map\_lines.append(line)  
  
 if not is\_dir and should\_include\_file(entry):  
 content = read\_file\_content(full\_path)  
 if content:  
 rel\_path = os.path.relpath(full\_path, root\_dir)  
 code\_blocks.append((rel\_path, content))  
  
 if is\_dir:  
 scan\_structure(full\_path, level + 1)  
  
 folder\_map\_lines.append(f"{os.path.basename(ROOT\_DIR)}/")  
 scan\_structure(ROOT\_DIR, level=1)  
  
 # Folder tree  
 for line in folder\_map\_lines:  
 p = doc.add\_paragraph(line)  
 apply\_folder\_style(p)  
  
 doc.add\_paragraph() # spacer  
  
 # Code blocks  
 doc.add\_heading("🧠 Code & Content", level=1)  
 for rel\_path, lines in code\_blocks:  
 doc.add\_paragraph(f"📄 {rel\_path}", style='Heading3')  
 add\_code\_block(doc, lines)  
  
 doc.save(output\_docx)  
 print(f"✅ Saved clean layout to: {output\_docx}")  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 write\_project\_map(ROOT\_DIR, OUTPUT\_DOCX)

### 📄 src\utils\sample\_data.py

# utils/sample\_data.py  
  
SAMPLE\_ACTIVITY\_JSON = {  
 "id": 99999,  
 "activity\_id": 99999,  
 "name": "Mock Run",  
 "type": "Run",  
 "distance": 5000.0,  
 "moving\_time": 1500,  
 "elapsed\_time": 1600,  
 "total\_elevation\_gain": 50.0,  
 "average\_speed": 3.5,  
 "max\_speed": 4.0,  
 "suffer\_score": 30,  
 "average\_heartrate": 150,  
 "max\_heartrate": 170,  
 "calories": 400,  
 "splits\_metric": [  
 {  
 "lap\_index": 1,  
 "distance": 1000,  
 "elapsed\_time": 300,  
 "moving\_time": 295,  
 "average\_speed": 3.33,  
 "max\_speed": 3.5,  
 "start\_index": 0,  
 "end\_index": 299,  
 "split": 1,  
 "average\_heartrate": 145,  
 "pace\_zone": 2  
 }  
 ]  
}  
  
SAMPLE\_HR\_ZONE\_RESPONSE = {  
 "heart\_rate": {  
 "custom\_zones": [  
 {"score": 0.1},  
 {"score": 0.2},  
 {"score": 0.3},  
 {"score": 0.25},  
 {"score": 0.15}  
 ]  
 }  
}  
  
  
SAMPLE\_STREAMS\_RESPONSE = {  
 "distance": {"data": [0.0, 500.0, 1000.0]},  
 "time": {"data": [0, 150, 300]},  
 "velocity\_smooth": {"data": [3.2, 3.4, 3.3]},  
 "heartrate": {"data": [130, 140, 150]}  
}

### 📄 src\utils\seeder.py

# src/utils/seeder.py  
  
from src.db.dao.activity\_dao import ActivityDAO  
from src.utils.sample\_data import SAMPLE\_ACTIVITY\_JSON  
  
  
def seed\_sample\_activity(session, athlete\_id: int):  
 mock = SAMPLE\_ACTIVITY\_JSON.copy()  
 mock["athlete\_id"] = athlete\_id  
 mock["id"] = mock["activity\_id"] = 99999 + athlete\_id # ensure unique PK  
 ActivityDAO.upsert\_activities(session, athlete\_id, [mock])

### 📄 test\_enrichment\_sync.py

from src.db.db\_session import get\_session  
from src.services.activity\_service import run\_enrichment\_batch  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 athlete\_id = 12345 # <-- replace with a valid athlete\_id from your database  
  
 session = get\_session()  
 try:  
 count = run\_enrichment\_batch(session, athlete\_id=athlete\_id)  
 print(f"✅ Enriched {count} activities")  
 finally:  
 session.close()

### 📄 tests\conftest.py

import os  
import sys  
import pytest  
from pathlib import Path  
from sqlalchemy.orm import sessionmaker  
from dotenv import load\_dotenv  
from unittest.mock import patch  
from datetime import datetime, timedelta  
  
  
  
# -------------------------  
# 🔧 Environment & Path Setup  
# -------------------------  
  
# Add project root to PYTHONPATH  
PROJECT\_ROOT = Path(\_\_file\_\_).resolve().parents[1]  
sys.path.insert(0, str(PROJECT\_ROOT))  
  
# Load test-specific environment variables  
load\_dotenv(dotenv\_path=PROJECT\_ROOT / ".env.test", override=True)  
  
# -------------------------  
# 🔌 Flask App Fixtures  
# -------------------------  
  
from src.app import create\_app  
from src.db.db\_session import get\_engine  
from src.db.models.tokens import Token  
from src.db.models.athletes import Athlete  
from src.db.models.activities import Activity  
from tests.test\_data.sample\_activities import SAMPLE\_ACTIVITY\_JSON  
  
  
@pytest.fixture(scope="session")  
def shared\_engine():  
 database\_url = os.getenv("DATABASE\_URL")  
 print(f"[TEST] Using DATABASE\_URL = {database\_url}")  
 return get\_engine(database\_url)  
  
  
@pytest.fixture(scope="function")  
def app(shared\_engine):  
 test\_config = {  
 "TESTING": True,  
 "DATABASE\_URL": os.getenv("DATABASE\_URL")  
 }  
 yield create\_app(test\_config)  
  
  
@pytest.fixture(scope="function")  
def client(app):  
 return app.test\_client()  
  
  
# -------------------------  
# 🧪 Database Fixtures  
# -------------------------  
  
@pytest.fixture(scope="function")  
def sqlalchemy\_session(shared\_engine):  
 connection = shared\_engine.connect()  
 transaction = connection.begin()  
 Session = sessionmaker(bind=connection, future=True)  
 session = Session()  
 yield session  
 session.close()  
 transaction.rollback()  
 connection.close()  
  
  
@pytest.fixture(scope="function")  
def test\_db\_session(sqlalchemy\_session):  
 return sqlalchemy\_session  
  
  
  
  
@pytest.fixture(scope="function")  
def seed\_test\_data(test\_db\_session):  
 if not test\_db\_session.query(Athlete).filter\_by(athlete\_id=1).first():  
 test\_db\_session.add(Athlete(athlete\_id=1, first\_name="Test", last\_name="Athlete"))  
  
 if not test\_db\_session.query(Token).filter\_by(athlete\_id=1).first():  
 test\_db\_session.add(Token(  
 athlete\_id=1,  
 access\_token="test\_access\_token",  
 refresh\_token="test\_refresh\_token",  
 expires\_at=int((datetime.utcnow() + timedelta(days=1)).timestamp())  
 ))  
  
 if not test\_db\_session.query(Activity).filter\_by(activity\_id=SAMPLE\_ACTIVITY\_JSON["activity\_id"]).first():  
 test\_db\_session.add(Activity(  
 activity\_id=SAMPLE\_ACTIVITY\_JSON["activity\_id"],  
 athlete\_id=1,  
 name=SAMPLE\_ACTIVITY\_JSON["name"],  
 type=SAMPLE\_ACTIVITY\_JSON["type"],  
 distance=SAMPLE\_ACTIVITY\_JSON["distance"],  
 moving\_time=SAMPLE\_ACTIVITY\_JSON["moving\_time"],  
 elapsed\_time=SAMPLE\_ACTIVITY\_JSON["elapsed\_time"],  
 total\_elevation\_gain=SAMPLE\_ACTIVITY\_JSON["total\_elevation\_gain"],  
 average\_speed=SAMPLE\_ACTIVITY\_JSON["average\_speed"],  
 max\_speed=SAMPLE\_ACTIVITY\_JSON["max\_speed"],  
 suffer\_score=SAMPLE\_ACTIVITY\_JSON["suffer\_score"],  
 average\_heartrate=SAMPLE\_ACTIVITY\_JSON["average\_heartrate"],  
 max\_heartrate=SAMPLE\_ACTIVITY\_JSON["max\_heartrate"],  
 calories=SAMPLE\_ACTIVITY\_JSON["calories"]  
 ))  
  
 test\_db\_session.commit()  
  
  
# -------------------------  
# 🔁 Patched App Fixtures  
# -------------------------  
  
@pytest.fixture(scope="function")  
def patched\_app(monkeypatch):  
 monkeypatch.setenv("CRON\_SECRET\_KEY", "devkey123")  
  
 with patch("src.routes.sync\_routes.sync\_recent") as mock\_sync\_recent:  
 mock\_sync\_recent.return\_value = 10  
 app = create\_app({"TESTING": True, "DATABASE\_URL": os.getenv("DATABASE\_URL")})  
 yield app  
  
  
@pytest.fixture(scope="function")  
def patched\_client(patched\_app):  
 return patched\_app.test\_client()  
  
  
# -------------------------  
# 🔐 Token Mock Fixtures  
# -------------------------  
  
@pytest.fixture(scope="function")  
def patched\_token\_mocks():  
 with patch("src.services.token\_service.get\_valid\_token") as mock\_valid, \  
 patch("src.db.dao.token\_dao.get\_tokens\_sa") as mock\_tokens:  
  
 mock\_tokens.return\_value = [  
 Token(  
 athlete\_id=1,  
 access\_token="mock\_access\_token",  
 refresh\_token="mock\_refresh\_token",  
 expires\_at=int((datetime.utcnow() + timedelta(hours=1)).timestamp())  
 )  
 ]  
 mock\_valid.return\_value = "mock\_access\_token"  
  
 yield mock\_tokens, mock\_valid

### 📄 tests\test\_activity\_dao.py

import pytest  
from unittest.mock import MagicMock, patch  
from datetime import datetime, timedelta  
from src.db.models.activities import Activity  
from src.db.dao.activity\_stats\_dao import ActivityStatsDAO  
from src.db.dao.activity\_dao import ActivityDAO  
  
  
def test\_get\_by\_id\_returns\_activity():  
 mock\_session = MagicMock()  
  
 mock\_query = mock\_session.query.return\_value  
 mock\_filter\_by = mock\_query.filter\_by.return\_value  
 expected\_activity = Activity(activity\_id=123)  
 mock\_filter\_by.first.return\_value = expected\_activity  
  
 result = ActivityDAO.get\_by\_id(mock\_session, 123)  
 assert result == expected\_activity  
  
 mock\_session.query.assert\_called\_once\_with(Activity)  
 mock\_query.filter\_by.assert\_called\_once\_with(activity\_id=123)  
 mock\_filter\_by.first.assert\_called\_once()  
  
  
def test\_get\_by\_id\_returns\_none():  
 mock\_session = MagicMock()  
 mock\_query = mock\_session.query.return\_value  
 mock\_filter\_by = mock\_query.filter\_by.return\_value  
 mock\_filter\_by.first.return\_value = None  
  
 result = ActivityDAO.get\_by\_id(mock\_session, 999)  
 assert result is None  
  
 mock\_session.query.assert\_called\_once\_with(Activity)  
 mock\_query.filter\_by.assert\_called\_once\_with(activity\_id=999)  
 mock\_filter\_by.first.assert\_called\_once()  
  
  
@patch("src.db.dao.activity\_dao.convert\_metrics")  
def test\_upsert\_activities\_empty\_list\_returns\_zero(mock\_convert):  
 mock\_session = MagicMock()  
 count = ActivityDAO.upsert\_activities(mock\_session, athlete\_id=1, activities=[])  
 assert count == 0  
 mock\_convert.assert\_not\_called()  
 mock\_session.execute.assert\_not\_called()  
 mock\_session.commit.assert\_not\_called()  
  
  
@patch("src.db.dao.activity\_dao.convert\_metrics")  
def test\_upsert\_activities\_single\_activity(mock\_convert):  
 mock\_session = MagicMock()  
 mock\_convert.return\_value = {  
 "conv\_distance": 100,  
 "conv\_elevation\_feet": 50,  
 "conv\_avg\_speed": 5,  
 "conv\_max\_speed": 10,  
 "conv\_moving\_time": 60,  
 "conv\_elapsed\_time": 65,  
 }  
  
 activities = [{  
 "id": 101,  
 "name": "Run",  
 "type": "Run",  
 "start\_date": "2023-01-01T00:00:00Z",  
 "distance": 1000,  
 "elapsed\_time": 65,  
 "moving\_time": 60,  
 "total\_elevation\_gain": 15,  
 "external\_id": "ext-101",  
 "timezone": "UTC",  
 "hr\_zone\_1": 10,  
 "hr\_zone\_2": 20,  
 "hr\_zone\_3": 30,  
 "hr\_zone\_4": 40,  
 "hr\_zone\_5": 50  
 }]  
  
 mock\_result = MagicMock()  
 mock\_result.rowcount = 1  
 mock\_session.execute.return\_value = mock\_result  
  
 count = ActivityDAO.upsert\_activities(mock\_session, athlete\_id=42, activities=activities)  
  
 assert count == 1  
 mock\_convert.assert\_called\_once()  
 mock\_session.execute.assert\_called\_once()  
 mock\_session.commit.assert\_called\_once()  
  
  
@patch("src.db.dao.activity\_dao.convert\_metrics")  
def test\_upsert\_activities\_multiple\_activities(mock\_convert):  
 mock\_session = MagicMock()  
 mock\_convert.return\_value = {  
 "conv\_distance": 100,  
 "conv\_elevation\_feet": 50,  
 "conv\_avg\_speed": 5,  
 "conv\_max\_speed": 10,  
 "conv\_moving\_time": 60,  
 "conv\_elapsed\_time": 65,  
 }  
  
 activities = [  
 {"id": 201, "name": "Morning Run", "type": "Run", "start\_date": "2023-01-01T06:00:00Z", "distance": 1000, "elapsed\_time": 65, "moving\_time": 60, "total\_elevation\_gain": 15, "external\_id": "ext-201"},  
 {"id": 202, "name": "Treadmill Run", "type": "Run", "start\_date": "2023-01-02T07:00:00Z", "distance": 500, "elapsed\_time": 35, "moving\_time": 30, "total\_elevation\_gain": 5, "external\_id": "ext-202"},  
 ]  
  
 mock\_result = MagicMock()  
 mock\_result.rowcount = 2  
 mock\_session.execute.return\_value = mock\_result  
  
 count = ActivityDAO.upsert\_activities(mock\_session, athlete\_id=99, activities=activities)  
  
 assert count == 2  
 assert mock\_convert.call\_count == 2  
 mock\_session.execute.assert\_called\_once()  
 mock\_session.commit.assert\_called\_once()  
  
  
def test\_get\_recent\_activities():  
 mock\_session = MagicMock()  
 fake\_activity = MagicMock()  
 fake\_activity.activity\_id = 999999  
 fake\_activity.athlete\_id = 123  
 fake\_activity.name = "Test Run"  
 mock\_session.scalars.return\_value.all.return\_value = [fake\_activity]  
  
 result = ActivityStatsDAO.get\_recent\_activities(mock\_session, athlete\_id=123, days=7)  
  
 assert isinstance(result, list)  
 assert result[0].activity\_id == 999999  
 mock\_session.scalars.assert\_called\_once()

### 📄 tests\test\_activity\_routes.py

import pytest  
from unittest.mock import patch, MagicMock  
from src.routes.activity\_routes import activity\_bp  
  
@pytest.fixture  
def client():  
 from flask import Flask  
 app = Flask(\_\_name\_\_)  
 app.register\_blueprint(activity\_bp)  
 app.config['TESTING'] = True  
 with app.test\_client() as client:  
 yield client  
  
def test\_enrich\_status(client):  
 resp = client.get("/enrich/status")  
 assert resp.status\_code == 200  
 assert resp.json == {"enrich": "ok"}  
  
@patch("src.routes.activity\_routes.get\_session")  
@patch("src.routes.activity\_routes.ActivityIngestionService")  
def test\_enrich\_single\_activity\_success(mock\_service\_cls, mock\_get\_session, client):  
 mock\_session = MagicMock()  
 mock\_get\_session.return\_value = mock\_session  
  
 # Simulate DB query returning athlete\_id  
 mock\_session.execute.return\_value.fetchone.return\_value = MagicMock(athlete\_id=123)  
 mock\_service = mock\_service\_cls.return\_value  
 mock\_service.enrich\_single\_activity.return\_value = True  
  
 resp = client.post("/enrich/activity/456")  
  
 assert resp.status\_code == 200  
 assert "enriched" in resp.json.get("status", "").lower()  
  
 mock\_get\_session.assert\_called\_once()  
 mock\_service\_cls.assert\_called\_once\_with(mock\_session, 123)  
 mock\_service.enrich\_single\_activity.assert\_called\_once\_with(456)  
 mock\_session.close.assert\_called\_once()  
  
@patch("src.routes.activity\_routes.get\_session")  
def test\_enrich\_single\_activity\_not\_found(mock\_get\_session, client):  
 mock\_session = MagicMock()  
 mock\_get\_session.return\_value = mock\_session  
 mock\_session.execute.return\_value.fetchone.return\_value = None  
  
 resp = client.post("/enrich/activity/999")  
  
 assert resp.status\_code == 404  
 assert "not found" in resp.json.get("error", "").lower()  
 mock\_session.close.assert\_called\_once()  
  
@patch("src.routes.activity\_routes.get\_session")  
@patch("src.routes.activity\_routes.run\_enrichment\_batch")  
def test\_enrich\_batch\_success(mock\_run\_batch, mock\_get\_session, client):  
 mock\_session = MagicMock()  
 mock\_get\_session.return\_value = mock\_session  
 mock\_run\_batch.return\_value = 5  
  
 resp = client.post("/enrich/batch?athlete\_id=123&batch=10")  
  
 assert resp.status\_code == 200  
 assert resp.json.get("count") == 5  
  
 mock\_run\_batch.assert\_called\_once\_with(mock\_session, 123, batch\_size=10)  
 mock\_session.close.assert\_called\_once()  
  
@patch("src.routes.activity\_routes.get\_session")  
def test\_enrich\_batch\_missing\_athlete\_id(mock\_get\_session, client):  
 resp = client.post("/enrich/batch")  
  
 assert resp.status\_code == 400  
 assert "missing athlete\_id" in resp.json.get("error", "").lower()  
 mock\_get\_session.assert\_not\_called()  
  
@patch("src.routes.activity\_routes.get\_session")  
@patch("src.routes.activity\_routes.ActivityIngestionService")  
def test\_sync\_strava\_to\_db\_success(mock\_service\_cls, mock\_get\_session, client):  
 mock\_session = MagicMock()  
 mock\_get\_session.return\_value = mock\_session  
  
 mock\_service = mock\_service\_cls.return\_value  
 mock\_service.ingest\_recent.return\_value = 7  
  
 # Set the correct CRON\_SECRET\_KEY in config  
 import src.utils.config as config  
 old\_key = config.CRON\_SECRET\_KEY  
 config.CRON\_SECRET\_KEY = "secret"  
  
 url = "/sync/123?key=secret&lookback=15&limit=5"  
 resp = client.get(url)  
  
 assert resp.status\_code == 200  
 assert resp.json.get("inserted") == 7  
  
 mock\_service\_cls.assert\_called\_once\_with(mock\_session, 123)  
 mock\_service.ingest\_recent.assert\_called\_once\_with(lookback\_days=15, max\_activities=5)  
 mock\_session.close.assert\_called\_once()  
  
 # Restore config  
 config.CRON\_SECRET\_KEY = old\_key  
  
def test\_sync\_strava\_to\_db\_unauthorized(client):  
 resp = client.get("/sync/123?key=wrongkey")  
 assert resp.status\_code == 401  
 assert "unauthorized" in resp.json.get("error", "").lower()

### 📄 tests\test\_activity\_service.py

import pytest  
from unittest.mock import MagicMock, patch, call  
from datetime import datetime, timedelta  
from src.services import activity\_service as svc  
  
@pytest.fixture  
def mock\_session():  
 return MagicMock()  
  
@pytest.fixture  
def athlete\_id():  
 return 42  
  
@pytest.fixture  
def dummy\_activity\_json():  
 return {  
 "id": 123,  
 "name": "Test Activity",  
 "distance": 5000,  
 "total\_elevation\_gain": 100,  
 "average\_speed": 3.5,  
 "max\_speed": 5.0,  
 "moving\_time": 1800,  
 "elapsed\_time": 2000,  
 "type": "Run",  
 "suffer\_score": 50,  
 "average\_heartrate": 140,  
 "max\_heartrate": 170,  
 "calories": 400,  
 "hr\_zone\_1": 10,  
 "hr\_zone\_2": 20,  
 "hr\_zone\_3": 30,  
 "hr\_zone\_4": 25,  
 "hr\_zone\_5": 15  
 }  
  
@pytest.fixture  
def dummy\_zones\_data():  
 return [  
 {  
 "type": "heartrate",  
 "distribution\_buckets": [  
 {"time": 300},  
 {"time": 300},  
 {"time": 200},  
 {"time": 100},  
 {"time": 100},  
 ]  
 }  
 ]  
  
@pytest.fixture  
def dummy\_streams():  
 return {  
 "distance": [0, 1609.344, 3218.688, 4000],  
 "time": [0, 600, 1200, 1500],  
 "velocity\_smooth": [3.0, 3.5, 4.0, 3.8],  
 "heartrate": [130, 135, 140, 145],  
 }  
  
def test\_get\_activities\_to\_enrich\_returns\_ids(mock\_session, athlete\_id):  
 # Setup mock execute().fetchall()  
 mock\_session.execute.return\_value.fetchall.return\_value = [  
 MagicMock(activity\_id=101),  
 MagicMock(activity\_id=102),  
 MagicMock(activity\_id=103),  
 ]  
 result = svc.get\_activities\_to\_enrich(mock\_session, athlete\_id, limit=3)  
 assert result == [101, 102, 103]  
 mock\_session.execute.assert\_called\_once()  
  
@patch("src.services.activity\_service.StravaClient")  
@patch("src.services.activity\_service.extract\_hr\_zone\_percentages", return\_value=[10,20,30,25,15])  
@patch("src.services.activity\_service.upsert\_splits")  
def test\_enrich\_one\_activity\_success(mock\_upsert, mock\_extract\_zones, MockClient, mock\_session, dummy\_activity\_json, dummy\_zones\_data, dummy\_streams):  
 mock\_client = MockClient.return\_value  
 mock\_client.get\_activity.return\_value = dummy\_activity\_json  
 mock\_client.get\_hr\_zones.return\_value = dummy\_zones\_data  
 mock\_client.get\_streams.return\_value = dummy\_streams  
  
 result = svc.enrich\_one\_activity(mock\_session, "fake-token", 123)  
 assert result is True  
 mock\_client.get\_activity.assert\_called\_once\_with(123)  
 mock\_extract\_zones.assert\_called\_once\_with(dummy\_zones\_data)  
 mock\_upsert.assert\_called\_once()  
 mock\_session.execute.assert\_called()  
 mock\_session.commit.assert\_called()  
  
@patch("src.services.activity\_service.get\_valid\_token", return\_value="fake-token")  
@patch("src.services.activity\_service.enrich\_one\_activity", return\_value=True)  
def test\_enrich\_one\_activity\_with\_refresh\_calls\_enrich(mock\_enrich, mock\_token, mock\_session, athlete\_id):  
 result = svc.enrich\_one\_activity\_with\_refresh(mock\_session, athlete\_id, 456)  
 assert result is True  
 mock\_token.assert\_called\_once\_with(mock\_session, athlete\_id)  
 mock\_enrich.assert\_called\_once\_with(mock\_session, "fake-token", 456)  
  
def test\_update\_activity\_enrichment\_executes\_sql(mock\_session, dummy\_activity\_json):  
 hr\_zones = [10, 20, 30, 25, 15]  
 svc.update\_activity\_enrichment(mock\_session, 123, dummy\_activity\_json, hr\_zones)  
 mock\_session.execute.assert\_called\_once()  
 mock\_session.commit.assert\_called\_once()  
  
def test\_extract\_hr\_zone\_percentages\_returns\_correct\_percentages():  
 zones\_data = [  
 {  
 "type": "heartrate",  
 "distribution\_buckets": [  
 {"time": 300},  
 {"time": 300},  
 {"time": 200},  
 {"time": 100},  
 {"time": 100},  
 ]  
 }  
 ]  
 result = svc.extract\_hr\_zone\_percentages(zones\_data)  
 assert sum(result) == 100.0  
 assert len(result) == 5  
  
def test\_build\_mile\_splits\_correctness():  
 streams = {  
 "distance": [0, 1609.344, 3218.688, 4000],  
 "time": [0, 600, 1200, 1500],  
 "velocity\_smooth": [3.0, 3.5, 4.0, 3.8],  
 "heartrate": [130, 135, 140, 145],  
 }  
 splits = svc.build\_mile\_splits(1, streams)  
 assert isinstance(splits, list)  
 assert all("activity\_id" in split for split in splits)  
 assert splits[0]["lap\_index"] == 1  
 assert splits[-1]["lap\_index"] == len(splits)  
  
@patch("src.services.activity\_service.ActivityDAO.upsert\_activities")  
@patch("src.services.activity\_service.StravaClient.get\_activities")  
@patch("src.services.activity\_service.get\_valid\_token", return\_value="fake-token")  
def test\_activity\_ingestion\_service\_methods(mock\_token, mock\_get\_activities, mock\_upsert, mock\_session, athlete\_id):  
 # Setup mock activities  
 # Setup mock activities with "Run" type to pass filtering logic  
 mock\_get\_activities.return\_value = [{"id": 1, "type": "Run"}, {"id": 2, "type": "Run"}]   
  
  
 service = svc.ActivityIngestionService(mock\_session, athlete\_id)  
  
 # ingest\_recent calls DAO upsert  
 service.ingest\_recent(lookback\_days=10, max\_activities=5)  
 mock\_get\_activities.assert\_called()  
 mock\_upsert.assert\_called\_once()  
  
 # ingest\_full\_history delegates to ingest\_recent  
 mock\_upsert.reset\_mock()  
 service.ingest\_full\_history(lookback\_days=365, max\_activities=10)  
 mock\_upsert.assert\_called\_once()  
  
 # ingest\_between calls DAO upsert  
 start = datetime.utcnow() - timedelta(days=5)  
 end = datetime.utcnow()  
 mock\_upsert.reset\_mock()  
 service.ingest\_between(start, end, max\_activities=10)  
 mock\_upsert.assert\_called\_once()  
  
@patch("src.services.activity\_service.get\_activities\_to\_enrich")  
@patch("src.services.activity\_service.enrich\_one\_activity\_with\_refresh")  
def test\_run\_enrichment\_batch\_calls\_all(mock\_enrich, mock\_get\_activities, mock\_session, athlete\_id):  
 mock\_get\_activities.return\_value = [1, 2, 3]  
 svc.run\_enrichment\_batch(mock\_session, athlete\_id, batch\_size=3)  
 assert mock\_enrich.call\_count == 3  
 mock\_enrich.assert\_has\_calls([call(mock\_session, athlete\_id, 1), call(mock\_session, athlete\_id, 2), call(mock\_session, athlete\_id, 3)])

### 📄 tests\test\_app.py

import pytest  
from unittest.mock import patch, MagicMock  
from src.app import create\_app  
  
@pytest.fixture  
def client():  
 app = create\_app({"TESTING": True})  
 with app.test\_client() as client:  
 yield client  
  
def test\_ping(client):  
 resp = client.get("/ping")  
 assert resp.status\_code == 200  
 assert resp.data == b"pong"  
  
@patch("sqlalchemy.inspect")  
@patch("sqlalchemy.create\_engine")  
def test\_db\_check\_success(mock\_create\_engine, mock\_inspect, client):  
 mock\_engine = MagicMock()  
 mock\_create\_engine.return\_value = mock\_engine  
 mock\_insp = MagicMock()  
 mock\_inspect.return\_value = mock\_insp  
 mock\_insp.get\_columns.return\_value = [  
 {"name": "id", "type": "Integer", "nullable": False},  
 {"name": "split", "type": "Integer", "nullable": True}  
 ]  
  
 resp = client.get("/db-check")  
 assert resp.status\_code == 200  
 json\_data = resp.get\_json()  
 assert json\_data["status"] == "ok"  
 assert json\_data["split\_column"]["name"] == "split"  
 assert json\_data["split\_column"]["nullable"] is True  
  
@patch("sqlalchemy.create\_engine", side\_effect=Exception("DB failure"))  
def test\_db\_check\_failure(mock\_create\_engine, client):  
 resp = client.get("/db-check")  
 assert resp.status\_code == 500  
 json\_data = resp.get\_json()  
 assert json\_data["status"] == "fail"  
 assert "DB failure" in json\_data["error"]  
  
def test\_startup(client):  
 resp = client.get("/startup")  
 assert resp.status\_code == 200  
 json\_data = resp.get\_json()  
 assert "status" in json\_data and json\_data["status"] == "started"  
 assert "cwd" in json\_data  
 assert "files" in json\_data  
  
def test\_blueprints\_registered(client):  
 # Test that known blueprint routes exist  
 resp = client.get("/ping")  
 assert resp.status\_code == 200  
  
 resp = client.get("/auth/login")  
 # This route exists but may redirect or 405 if not POST; just check not 404  
 assert resp.status\_code != 404  
  
 resp = client.get("/sync/enrich/status")  
 assert resp.status\_code == 200

### 📄 tests\test\_ask\_routes.py

import pytest  
from src.app import create\_app  
  
@pytest.fixture  
def client():  
 app = create\_app()  
 app.config['TESTING'] = True  
 with app.test\_client() as client:  
 yield client  
  
def test\_ask\_valid\_input(client):  
 payload = {  
 "question": "How far should I run today?",  
 "athlete\_id": "42"  
 }  
 response = client.post("/ask", json=payload)  
 assert response.status\_code == 200  
 assert response.json["message"] == "✅ Question received"  
 assert response.json["athlete\_id"] == "42"  
 assert response.json["question"] == "How far should I run today?"  
  
def test\_ask\_missing\_question(client):  
 payload = {  
 "athlete\_id": "42"  
 }  
 response = client.post("/ask", json=payload)  
 assert response.status\_code == 400  
 assert "question" in response.json["error"]  
  
def test\_ask\_missing\_athlete\_id(client):  
 payload = {  
 "question": "Should I rest today?"  
 }  
 response = client.post("/ask", json=payload)  
 assert response.status\_code == 400  
 assert "athlete\_id" in response.json["error"]

### 📄 tests\test\_athlete\_dao.py

# tests/test\_athlete\_dao.py  
  
import pytest  
from sqlalchemy.orm import Session  
from src.db.dao.athlete\_dao import (  
 insert\_athlete,  
 get\_athlete\_by\_strava\_id,  
 get\_athlete\_id\_from\_strava\_id,  
)  
from src.db.models.athletes import Athlete  
  
def test\_insert\_and\_get\_athlete(test\_db\_session: Session):  
 strava\_id = 123456789  
 name = "Test User"  
 email = "test@example.com"  
  
 # Insert athlete  
 athlete\_id = insert\_athlete(test\_db\_session, strava\_id, name, email)  
 assert isinstance(athlete\_id, int)  
  
 # Get full athlete  
 athlete = get\_athlete\_by\_strava\_id(test\_db\_session, strava\_id)  
 assert athlete is not None  
 assert athlete.name == name  
 assert athlete.email == email  
  
 # Get ID by strava ID  
 fetched\_id = get\_athlete\_id\_from\_strava\_id(test\_db\_session, strava\_id)  
 assert fetched\_id == athlete\_id

### 📄 tests\test\_auth.py

import os  
import jwt  
from datetime import datetime, timedelta  
from unittest.mock import patch  
import src.utils.config as config # Import config for admin credentials  
  
  
@patch("src.services.token\_service.refresh\_token\_static")  
def test\_login\_refresh\_logout(mock\_refresh, client):  
 """Test successful login, token refresh using Authorization header, and logout."""  
 mock\_refresh.return\_value = {  
 "access\_token": "mocked\_access",  
 "refresh\_token": "mocked\_refresh",  
 "expires\_at": int((datetime.utcnow() + timedelta(hours=1)).timestamp())  
 }  
  
 # Step 1: Login with correct credentials from config  
 resp = client.post("/auth/login", json={"username": config.ADMIN\_USER, "password": config.ADMIN\_PASS})  
 assert resp.status\_code == 200  
  
 tokens = resp.get\_json()  
 access\_token = tokens["access\_token"]  
 refresh\_token = tokens["refresh\_token"]  
  
 # 🔧 Inject mock token record into DB for athlete\_id=0  
 from src.db.models.tokens import Token  
 from src.db.db\_session import get\_session  
 session = get\_session()  
  
 with session as db\_session:  
 db\_session.add(Token(  
 athlete\_id=0,  
 access\_token="old\_access",  
 refresh\_token="mocked\_refresh",  
 expires\_at=int((datetime.utcnow() - timedelta(hours=1)).timestamp()) # expired to trigger refresh  
 ))  
 db\_session.commit()  
  
 # Step 2: Refresh (using Authorization header)  
 headers = {"Authorization": f"Bearer {refresh\_token}"}  
 resp = client.post("/auth/refresh/0", headers=headers)  
 assert resp.status\_code == 200  
  
 # Step 3: Logout  
 resp = client.post("/auth/logout/0", headers=headers)  
 assert resp.status\_code == 200  
  
  
def test\_invalid\_login\_rejected(client):  
 """Test that invalid credentials are rejected."""  
 resp = client.post("/auth/login", json={"username": "wrong", "password": "bad"})  
 assert resp.status\_code == 401  
  
  
def test\_invalid\_refresh\_token(client):  
 """Test that an invalid refresh token is rejected."""  
 headers = {"Authorization": "Bearer not.a.real.token"}  
 resp = client.post("/auth/refresh/0", headers=headers)  
 assert resp.status\_code == 401  
  
  
def test\_expired\_refresh\_token(client):  
 """Test refresh fails with an expired token."""  
 secret = os.environ.get("SECRET\_KEY", "testsecret")  
  
 expired\_token = jwt.encode(  
 {  
 "sub": "admin",  
 "exp": datetime.utcnow() - timedelta(seconds=1)  
 },  
 secret,  
 algorithm="HS256"  
 )  
  
 resp = client.post("/auth/refresh/0", headers={"Authorization": f"Bearer {expired\_token}"})  
 print(f"⏰ Expired refresh status: {resp.status\_code}, Body: {resp.data.decode()}")  
 assert resp.status\_code == 401

### 📄 tests\test\_auth\_routes.py

import pytest  
from unittest.mock import patch, MagicMock  
from flask import Flask  
import jwt  
from datetime import datetime, timedelta  
import src.utils.config as config  
from src.routes.auth\_routes import auth\_bp  
  
# ----------------------  
# Test Setup  
# ----------------------  
  
@pytest.fixture  
def client():  
 app = Flask(\_\_name\_\_)  
 app.register\_blueprint(auth\_bp, url\_prefix="/auth")  
 app.config['TESTING'] = True  
 with app.test\_client() as client:  
 yield client  
  
def create\_jwt\_token(sub="admin", exp=None):  
 if exp is None:  
 exp = datetime.utcnow() + timedelta(seconds=config.ACCESS\_TOKEN\_EXP)  
 return jwt.encode({"sub": sub, "exp": exp}, config.SECRET\_KEY, algorithm="HS256")  
  
# ----------------------  
# /auth/login POST  
# ----------------------  
  
def test\_admin\_login\_success(client):  
 data = {"username": config.ADMIN\_USER, "password": config.ADMIN\_PASS}  
 response = client.post("/auth/login", json=data)  
 assert response.status\_code == 200  
 assert "access\_token" in response.json  
 assert "refresh\_token" in response.json  
  
def test\_admin\_login\_invalid\_credentials(client):  
 data = {"username": "wrong", "password": "wrong"}  
 response = client.post("/auth/login", json=data)  
 assert response.status\_code == 401  
 assert response.json["error"] == "Unauthorized"  
  
def test\_admin\_login\_missing\_json(client):  
 response = client.post("/auth/login")  
 assert response.status\_code in (400, 500)  
  
# ----------------------  
# /auth/login GET (Strava OAuth)  
# ----------------------  
  
def test\_strava\_login\_redirect(client, monkeypatch):  
 # Patch os.getenv to return expected environment variables  
 monkeypatch.setattr("os.getenv", lambda k: {  
 "STRAVA\_CLIENT\_ID": "123",  
 "STRAVA\_REDIRECT\_URI": "http://redirect"  
 }.get(k))  
 response = client.get("/auth/login")  
 assert response.status\_code == 302  
 assert "strava.com/oauth/authorize" in response.location  
  
# ----------------------  
# /auth/callback GET  
# ----------------------  
  
@patch("src.services.token\_service.store\_tokens\_from\_callback")  
@patch("src.routes.auth\_routes.get\_session")  
def test\_callback\_success(mock\_get\_session, mock\_store\_tokens, client):  
 mock\_store\_tokens.return\_value = 123  
 mock\_get\_session.return\_value = MagicMock()  
 response = client.get("/auth/callback?code=fakecode")  
 assert response.status\_code == 200  
 assert "Token stored for athlete\_id: 123" in response.get\_data(as\_text=True)  
  
def test\_callback\_missing\_code(client):  
 response = client.get("/auth/callback")  
 assert response.status\_code == 400  
 assert "Missing OAuth code" in response.get\_data(as\_text=True)  
  
@patch("src.services.token\_service.store\_tokens\_from\_callback", side\_effect=Exception("fail"))  
@patch("src.routes.auth\_routes.get\_session")  
def test\_callback\_exception(mock\_get\_session, mock\_store\_tokens, client):  
 mock\_get\_session.return\_value = MagicMock()  
 response = client.get("/auth/callback?code=code")  
 assert response.status\_code == 500  
 assert "Callback error" in response.get\_data(as\_text=True)  
  
# ----------------------  
# /auth/refresh/<athlete\_id> POST  
# ----------------------  
  
@patch("src.routes.auth\_routes.get\_session")  
@patch("src.routes.auth\_routes.refresh\_token\_if\_expired")  
def test\_refresh\_token\_success(mock\_refresh, mock\_get\_session, client):  
 mock\_refresh.return\_value = True  
 mock\_get\_session.return\_value = MagicMock()  
 token = create\_jwt\_token()  
 headers = {"Authorization": f"Bearer {token}"}  
 response = client.post("/auth/refresh/1", headers=headers)  
 assert response.status\_code == 200  
 assert response.json == {"refreshed": True}  
  
def test\_refresh\_token\_missing\_auth\_header(client):  
 response = client.post("/auth/refresh/1")  
 assert response.status\_code == 401  
 assert "Missing or invalid Authorization header" in response.json["error"]  
  
def test\_refresh\_token\_invalid\_token(client):  
 headers = {"Authorization": "Bearer invalidtoken"}  
 response = client.post("/auth/refresh/1", headers=headers)  
 assert response.status\_code == 401  
 assert response.json["error"] == "Invalid token"  
  
# ----------------------  
# /auth/logout/<athlete\_id> POST  
# ----------------------  
  
@patch("src.routes.auth\_routes.get\_session")  
@patch("src.routes.auth\_routes.delete\_athlete\_tokens")  
def test\_logout\_success(mock\_delete, mock\_get\_session, client):  
 mock\_delete.return\_value = True  
 mock\_get\_session.return\_value = MagicMock()  
 response = client.post("/auth/logout/1")  
 assert response.status\_code == 200  
 assert response.json == {"deleted": True}  
  
# ----------------------  
# /auth/monitor-tokens GET  
# ----------------------  
  
@patch("src.routes.auth\_routes.get\_session")  
def test\_monitor\_tokens\_success(mock\_get\_session, client):  
 mock\_session = MagicMock()  
 mock\_session.execute.return\_value.fetchall.return\_value = [  
 MagicMock(athlete\_id=1, expires\_at=123456789),  
 MagicMock(athlete\_id=2, expires\_at=987654321)  
 ]  
 mock\_get\_session.return\_value = mock\_session  
  
 response = client.get("/auth/monitor-tokens")  
 assert response.status\_code == 200  
 assert isinstance(response.json, list)  
 assert response.json[0]["athlete\_id"] == 1  
  
@patch("src.routes.auth\_routes.get\_session")  
def test\_monitor\_tokens\_exception(mock\_get\_session, client):  
 mock\_session = MagicMock()  
 mock\_session.execute.side\_effect = Exception("DB fail")  
 mock\_get\_session.return\_value = mock\_session  
  
 response = client.get("/auth/monitor-tokens")  
 assert response.status\_code == 500  
 assert "error" in response.json

### 📄 tests\test\_data\sample\_activities.py

# tests/test\_data/sample\_activities.py  
  
SAMPLE\_ACTIVITY\_JSON = {  
 "id": 99999,  
 "activity\_id": 99999,  
 "external\_id": "external\_99999", # required field  
 "name": "Mock Run",  
 "type": "Run",  
 "distance": 5000.0,  
 "moving\_time": 1500,  
 "elapsed\_time": 1600,  
 "total\_elevation\_gain": 50.0,  
 "average\_speed": 3.5,  
 "max\_speed": 4.0,  
 "suffer\_score": 30,  
 "average\_heartrate": 150,  
 "max\_heartrate": 170,  
 "calories": 400,  
 "start\_date": "2025-06-01T08:00:00Z", # <--- ADD THIS LINE  
 "splits\_metric": [  
 {  
 "lap\_index": 1,  
 "distance": 1000,  
 "elapsed\_time": 300,  
 "moving\_time": 295,  
 "average\_speed": 3.33,  
 "max\_speed": 3.5,  
 "start\_index": 0,  
 "end\_index": 299,  
 "split": 1,  
 "average\_heartrate": 145,  
 "pace\_zone": 2  
 }  
 ]  
}  
  
SAMPLE\_HR\_ZONE\_RESPONSE = {  
 "heart\_rate": {  
 "custom\_zones": [  
 {"score": 0.1},  
 {"score": 0.2},  
 {"score": 0.3},  
 {"score": 0.25},  
 {"score": 0.15}  
 ]  
 }  
}  
  
SAMPLE\_STREAMS\_RESPONSE = {  
 "distance": {"data": [0.0, 500.0, 1000.0]},  
 "time": {"data": [0, 150, 300]},  
 "velocity\_smooth": {"data": [3.2, 3.4, 3.3]},  
 "heartrate": {"data": [130, 140, 150]}  
}

### 📄 tests\test\_enrichment\_with\_splits.py

# tests/test\_enrichment\_with\_splits.py  
  
import pytest  
from unittest.mock import patch  
from datetime import datetime, timedelta  
  
from src.db.models.activities import Activity  
from src.db.models.splits import Split  
from src.db.models.tokens import Token  
from src.services.activity\_service import enrich\_one\_activity\_with\_refresh  
from tests.test\_data.sample\_activities import SAMPLE\_ACTIVITY\_JSON  
  
SAMPLE\_HR\_ZONE\_RESPONSE = {  
 "type": "heartrate",  
 "distribution\_buckets": [  
 {"time": 300},  
 {"time": 300},  
 {"time": 200},  
 {"time": 100},  
 {"time": 100}  
 ]  
}  
  
@pytest.fixture  
def sqlalchemy\_token(sqlalchemy\_session):  
 token = Token(  
 athlete\_id=42,  
 access\_token="mock\_access",  
 refresh\_token="mock\_refresh",  
 expires\_at=int((datetime.utcnow() + timedelta(hours=1)).timestamp())  
 )  
 sqlalchemy\_session.add(token)  
 sqlalchemy\_session.commit()  
 return token  
  
@pytest.fixture  
def seed\_activity(sqlalchemy\_session):  
 activity = Activity(  
 activity\_id=99999,  
 athlete\_id=42,  
 start\_date=datetime.utcnow()  
 )  
 sqlalchemy\_session.add(activity)  
 sqlalchemy\_session.commit()  
 return activity  
  
@patch("src.services.activity\_service.get\_valid\_token")  
@patch("src.services.strava\_access\_service.StravaClient.get\_activity")  
@patch("src.services.strava\_access\_service.StravaClient.get\_hr\_zones")  
@patch("src.services.strava\_access\_service.StravaClient.get\_streams")  
@patch("src.services.strava\_access\_service.StravaClient.get\_splits")  
def test\_enrich\_one\_activity\_with\_splits(  
 mock\_get\_splits,  
 mock\_get\_streams,  
 mock\_get\_hr\_zones,  
 mock\_get\_activity,  
 mock\_get\_token,  
 sqlalchemy\_session,  
 sqlalchemy\_token,  
 seed\_activity  
):  
 mock\_get\_token.return\_value = sqlalchemy\_token  
 mock\_get\_activity.return\_value = SAMPLE\_ACTIVITY\_JSON  
 mock\_get\_hr\_zones.return\_value = SAMPLE\_HR\_ZONE\_RESPONSE  
 mock\_get\_streams.return\_value = {  
 "distance": [0.0, 800.0, 1609.34, 1700.0], # 1609.34 is exactly 1 mile  
 "time": [0, 200, 400, 420],  
 "velocity\_smooth": [3.1, 3.3, 3.4, 3.2],  
 "heartrate": [138, 140, 142, 144]  
 }  
 mock\_get\_splits.return\_value = [  
 {"elapsed\_time": 300, "distance": 1700.0, "average\_speed": 3.2, "split": 1, "lap\_index": 1}  
 ]  
  
 result = enrich\_one\_activity\_with\_refresh(  
 sqlalchemy\_session, seed\_activity.athlete\_id, activity\_id=99999  
 )  
 assert result is True  
  
 splits = sqlalchemy\_session.query(Split).filter\_by(activity\_id=99999).all()  
 assert len(splits) == 1  
 assert splits[0].lap\_index == 1  
 assert splits[0].distance == 1700.0  
 assert splits[0].elapsed\_time == 420  
 assert isinstance(splits[0].split, int)  
  
 activity = sqlalchemy\_session.query(Activity).filter\_by(activity\_id=99999).one()  
 assert activity.hr\_zone\_1 is not None  
 assert activity.hr\_zone\_5 is not None

### 📄 tests\test\_extract\_hr\_zone\_percentages.py

import pytest  
from src.services.activity\_service import extract\_hr\_zone\_percentages  
  
def test\_extract\_hr\_zone\_percentages\_normal():  
 zones\_data = [  
 {  
 "type": "heartrate",  
 "distribution\_buckets": [  
 {"time": 100},  
 {"time": 200},  
 {"time": 300},  
 {"time": 400},  
 {"time": 0},  
 ],  
 }  
 ]  
 expected = [10.0, 20.0, 30.0, 40.0, 0.0]  
 result = extract\_hr\_zone\_percentages(zones\_data)  
 assert result == expected  
  
def test\_extract\_hr\_zone\_percentages\_zero\_total():  
 zones\_data = [  
 {  
 "type": "heartrate",  
 "distribution\_buckets": [  
 {"time": 0},  
 {"time": 0},  
 {"time": 0},  
 {"time": 0},  
 {"time": 0},  
 ],  
 }  
 ]  
 result = extract\_hr\_zone\_percentages(zones\_data)  
 assert result == [0.0, 0.0, 0.0, 0.0, 0.0]  
  
def test\_extract\_hr\_zone\_percentages\_no\_heartrate():  
 zones\_data = [{"type": "something\_else", "distribution\_buckets": []}]  
 result = extract\_hr\_zone\_percentages(zones\_data)  
 assert result == [0.0, 0.0, 0.0, 0.0, 0.0]  
  
def test\_extract\_hr\_zone\_percentages\_malformed\_input():  
 result = extract\_hr\_zone\_percentages(None)  
 assert result == [0.0, 0.0, 0.0, 0.0, 0.0]

### 📄 tests\test\_full\_ingestion\_flow.py

import pytest  
from unittest.mock import patch  
from datetime import datetime, timedelta  
  
from src.db.db\_session import get\_session  
from src.db.models.tokens import Token  
from src.db.models.activities import Activity  
from src.db.models.splits import Split  
from src.scripts.main\_pipeline import run\_full\_ingestion\_and\_enrichment  
  
# Import the sample activity JSON with external\_id included  
from tests.test\_data.sample\_activities import SAMPLE\_ACTIVITY\_JSON  
  
@pytest.fixture(scope="module")  
def test\_session():  
 session = get\_session()  
 yield session  
 session.rollback()  
 session.close()  
  
@pytest.fixture(scope="function")  
def seeded\_token(test\_session):  
 token = Token(  
 athlete\_id=1,  
 access\_token="mock\_access",  
 refresh\_token="mock\_refresh",  
 expires\_at=int((datetime.utcnow() + timedelta(hours=1)).timestamp())  
 )  
 test\_session.add(token)  
 test\_session.commit()  
 yield token  
 test\_session.delete(token)  
 test\_session.commit()  
  
@patch("src.services.strava\_access\_service.StravaClient.get\_streams")  
@patch("src.services.strava\_access\_service.StravaClient.get\_activity")  
@patch("src.services.strava\_access\_service.StravaClient.get\_activities")  
@patch("src.services.strava\_access\_service.StravaClient.get\_splits")  
@patch("src.services.strava\_access\_service.StravaClient.get\_hr\_zones")  
def test\_run\_full\_ingestion\_flow(  
 mock\_zones, mock\_splits, mock\_activities, mock\_activity, mock\_streams,  
 test\_session, seeded\_token  
):  
 athlete\_id = 1  
 mock\_activity\_id = SAMPLE\_ACTIVITY\_JSON["id"]  
  
 # Ensure no conflicting data  
 test\_session.query(Split).filter\_by(activity\_id=mock\_activity\_id).delete()  
 test\_session.query(Activity).filter\_by(activity\_id=mock\_activity\_id).delete()  
 test\_session.commit()  
  
 # Use SAMPLE\_ACTIVITY\_JSON and ensure it has external\_id  
 mock\_activity\_data = SAMPLE\_ACTIVITY\_JSON.copy()  
 mock\_activity\_data["external\_id"] = f"external\_{mock\_activity\_id}" # Ensure external\_id exists  
  
 mock\_activities.return\_value = [mock\_activity\_data]  
 mock\_activity.return\_value = mock\_activity\_data  
  
 mock\_splits.return\_value = [  
 {"elapsed\_time": 600, "distance": 1609, "average\_speed": 3.3, "split": 1},  
 {"elapsed\_time": 620, "distance": 1609, "average\_speed": 3.2, "split": 2}  
 ]  
  
 mock\_zones.return\_value = [{  
 "type": "heartrate",  
 "distribution\_buckets": [  
 {"time": 300}, {"time": 300}, {"time": 200}, {"time": 100}, {"time": 100}  
 ]  
 }]  
  
 mock\_streams.return\_value = {  
 "distance": [1609.344, 3219], # Slightly more than 2 \* 1609.344  
 "time": [600, 1220],  
 "velocity\_smooth": [3.3, 3.2],  
 "heartrate": [140, 145]  
 }  
  
 result = run\_full\_ingestion\_and\_enrichment(test\_session, athlete\_id)  
  
 assert result["synced"] >= 1, "Expected at least one activity to be inserted"  
  
 activity = test\_session.query(Activity).filter\_by(activity\_id=mock\_activity\_id).first()  
 assert activity is not None, "Activity not found in DB"  
 assert activity.name == mock\_activity\_data["name"]  
 assert activity.start\_date.isoformat().startswith("2025-06-01")  
 assert activity.distance == mock\_activity\_data["distance"]  
  
 splits = test\_session.query(Split).filter\_by(activity\_id=mock\_activity\_id).all()  
 assert len(splits) == 2, "Expected 2 splits to be inserted"

### 📄 tests\test\_health.py

# tests/test\_health.py  
def test\_ping(client):  
 resp = client.get("/ping")  
 assert resp.status\_code == 200  
 assert resp.data == b"pong"

### 📄 tests\test\_hr\_zone\_api.py

import os  
import requests  
  
# Replace with a valid activity\_id you know has HR data  
activity\_id = 14663194187 # <-- replace with one of your existing IDs  
  
# Read access token directly from database or environment  
access\_token = os.getenv("STRAVA\_ACCESS\_TOKEN")  
  
if not access\_token:  
 raise RuntimeError("Missing STRAVA\_ACCESS\_TOKEN environment variable")  
  
url = f"https://www.strava.com/api/v3/activities/{activity\_id}/zones"  
headers = {"Authorization": f"Bearer {access\_token}"}  
  
resp = requests.get(url, headers=headers, timeout=10)  
print(f"HTTP Status: {resp.status\_code}")  
  
if resp.status\_code == 200:  
 data = resp.json()  
 print("✅ Successfully fetched HR zone data:")  
 print(data)  
else:  
 print("❌ Failed to fetch HR zones.")  
 print(resp.text)

### 📄 tests\test\_ingestion\_orchestrator.py

# tests/test\_ingestion\_orchestrator.py  
  
import pytest  
from unittest.mock import patch, MagicMock  
from datetime import datetime  
from src.services.ingestion\_orchestrator\_service import ingest\_specific\_activity, ingest\_between\_dates  
  
  
@pytest.fixture  
def session():  
 """Mocked DB session fixture"""  
 return MagicMock()  
  
  
@patch("src.services.ingestion\_orchestrator\_service.enrich\_one\_activity\_with\_refresh")  
@patch("src.services.ingestion\_orchestrator\_service.ActivityDAO.upsert\_activities")  
@patch("src.services.ingestion\_orchestrator\_service.ActivityIngestionService")  
def test\_ingest\_specific\_activity\_success(mock\_service, mock\_upsert, mock\_enrich, session):  
 athlete\_id = 123  
 activity\_id = 456  
  
 mock\_service\_instance = mock\_service.return\_value  
 mock\_activity = {"id": activity\_id, "name": "Test Activity"}  
 mock\_service\_instance.client.get\_activity.return\_value = mock\_activity  
  
 mock\_upsert.return\_value = 1  
 mock\_enrich.return\_value = None  
  
 result = ingest\_specific\_activity(session, athlete\_id, activity\_id)  
  
 mock\_service\_instance.client.get\_activity.assert\_called\_once\_with(activity\_id)  
 mock\_upsert.assert\_called\_once\_with(session, athlete\_id, [mock\_activity])  
 mock\_enrich.assert\_called\_once\_with(session, athlete\_id, activity\_id)  
 assert result == 1  
  
  
@patch("src.services.ingestion\_orchestrator\_service.ActivityIngestionService")  
def test\_ingest\_specific\_activity\_not\_found(mock\_service, session):  
 athlete\_id = 123  
 activity\_id = 456  
  
 mock\_service\_instance = mock\_service.return\_value  
 mock\_service\_instance.client.get\_activity.return\_value = None  
  
 result = ingest\_specific\_activity(session, athlete\_id, activity\_id)  
  
 mock\_service\_instance.client.get\_activity.assert\_called\_once\_with(activity\_id)  
 assert result == 0  
  
  
@patch("src.services.ingestion\_orchestrator\_service.enrich\_one\_activity\_with\_refresh")  
@patch("src.services.ingestion\_orchestrator\_service.ActivityDAO.upsert\_activities")  
@patch("src.services.ingestion\_orchestrator\_service.ActivityIngestionService")  
def test\_ingest\_between\_dates\_success(mock\_service, mock\_upsert, mock\_enrich, session):  
 athlete\_id = 123  
 start\_date = datetime(2025, 1, 1)  
 end\_date = datetime(2025, 1, 3)  
  
 mock\_service\_instance = mock\_service.return\_value  
 mock\_activities = [  
 {"id": 1, "name": "A1", "type": "Run"},  
 {"id": 2, "name": "A2", "type": "Run"}  
 ]  
 mock\_service\_instance.client.get\_activities.return\_value = mock\_activities  
  
 mock\_upsert.return\_value = 2  
 mock\_enrich.return\_value = None  
  
 result = ingest\_between\_dates(session, athlete\_id, start\_date, end\_date, batch\_size=1)  
  
 mock\_service\_instance.client.get\_activities.assert\_called\_once()  
 mock\_upsert.assert\_called\_once\_with(session, athlete\_id, mock\_activities)  
 assert mock\_enrich.call\_count == 2  
 assert result == 2  
  
  
@patch("src.services.ingestion\_orchestrator\_service.ActivityIngestionService")  
def test\_ingest\_between\_dates\_no\_activities(mock\_service, session):  
 athlete\_id = 123  
 start\_date = datetime(2025, 1, 1)  
 end\_date = datetime(2025, 1, 3)  
  
 mock\_service\_instance = mock\_service.return\_value  
 mock\_service\_instance.client.get\_activities.return\_value = []  
  
 result = ingest\_between\_dates(session, athlete\_id, start\_date, end\_date)  
  
 mock\_service\_instance.client.get\_activities.assert\_called\_once()  
 assert result == 0  
  
  
@patch("src.services.ingestion\_orchestrator\_service.enrich\_one\_activity\_with\_refresh")  
@patch("src.services.ingestion\_orchestrator\_service.ActivityDAO.upsert\_activities")  
@patch("src.services.ingestion\_orchestrator\_service.ActivityIngestionService")  
def test\_ingest\_between\_dates\_enrichment\_failure(mock\_service, mock\_upsert, mock\_enrich, session):  
 athlete\_id = 123  
 start\_date = datetime(2025, 1, 1)  
 end\_date = datetime(2025, 1, 3)  
  
 mock\_service\_instance = mock\_service.return\_value  
 activities = [  
 {"id": 1, "name": "A1", "type": "Run"},  
 {"id": 2, "name": "A2", "type": "Run"}  
 ]  
 mock\_service\_instance.client.get\_activities.return\_value = activities  
  
 mock\_upsert.return\_value = 2  
  
 def enrich\_side\_effect(sess, ath\_id, act\_id):  
 if act\_id == 2:  
 raise Exception("Enrich error")  
 return None  
  
 mock\_enrich.side\_effect = enrich\_side\_effect  
  
 # Run ingestion; enrichment errors are handled internally, so no exception expected  
 result = ingest\_between\_dates(session, athlete\_id, start\_date, end\_date, batch\_size=1)  
  
 assert mock\_enrich.call\_count == 2 # Both enrichment attempts made  
 assert result == 1 # Upsert count remains 2

### 📄 tests\test\_integration\_ingestion.py

# tests/test\_integration\_ingestion.py  
  
import pytest  
from datetime import datetime, timedelta  
from unittest.mock import patch  
from src.db.db\_session import get\_session  
from src.services.ingestion\_orchestrator\_service import ingest\_specific\_activity  
from src.db.models.activities import Activity  
from src.db.models.tokens import Token  
  
@pytest.fixture(scope="module")  
def test\_session():  
 session = get\_session()  
 yield session  
 session.rollback()  
 session.close()  
  
@pytest.fixture(scope="function")  
def token\_fixture(test\_session):  
 token = Token(  
 athlete\_id=1,  
 access\_token="test\_token",  
 refresh\_token="test\_refresh",  
 expires\_at=int((datetime.utcnow() + timedelta(hours=1)).timestamp()),  
 )  
 test\_session.add(token)  
 test\_session.commit()  
 yield token  
 test\_session.delete(token)  
 test\_session.commit()  
  
@patch("src.services.strava\_access\_service.StravaClient.\_request\_with\_backoff")  
def test\_ingest\_specific\_activity\_integration(mock\_strava\_call, test\_session, token\_fixture):  
 athlete\_id = 1  
 activity\_id = 123456  
  
 mock\_strava\_call.return\_value = {  
 "id": activity\_id,  
 "name": "Mocked Run",  
 "distance": 5000,  
 "moving\_time": 1800,  
 "elapsed\_time": 1900,  
 "total\_elevation\_gain": 100,  
 "type": "Run",  
 "average\_speed": 2.8,  
 "max\_speed": 3.5,  
 "suffer\_score": 30,  
 "average\_heartrate": 145,  
 "max\_heartrate": 160,  
 "calories": 300,  
 "start\_date": "2025-06-01T08:00:00Z"  
 }  
  
 result = ingest\_specific\_activity(test\_session, athlete\_id, activity\_id)  
  
 assert result == 1  
 activity = test\_session.query(Activity).filter(Activity.activity\_id == activity\_id).first()  
 assert activity is not None  
 assert activity.activity\_id == activity\_id

### 📄 tests\test\_jwt\_utils.py

import pytest  
from unittest.mock import patch, MagicMock  
from flask import Flask, jsonify  
import jwt  
  
import src.utils.jwt\_utils as jwt\_utils  
import src.utils.config as config  
  
  
@pytest.fixture  
def app():  
 app = Flask(\_\_name\_\_)  
 app.config['TESTING'] = True  
 return app  
  
  
def create\_token(payload, expired=False):  
 key = config.SECRET\_KEY  
 if expired:  
 payload['exp'] = 0 # expired  
 else:  
 payload['exp'] = 9999999999  
 return jwt.encode(payload, key, algorithm="HS256")  
  
  
def test\_decode\_token\_valid():  
 token = create\_token({"sub": "user1"})  
 decoded = jwt\_utils.decode\_token(token)  
 assert decoded["sub"] == "user1"  
  
  
def test\_decode\_token\_invalid():  
 with pytest.raises(ValueError):  
 jwt\_utils.decode\_token("not-a-token")  
  
  
def test\_require\_auth\_internal\_key(client, app):  
 app.route("/protected")(jwt\_utils.require\_auth(lambda: jsonify(success=True)))  
  
 # Internal key present and matches config  
 with app.test\_client() as client:  
 headers = {"X-Internal-Key": config.INTERNAL\_API\_KEY}  
 resp = client.get("/protected", headers=headers)  
 assert resp.status\_code == 200  
 assert resp.json == {"success": True}  
  
  
def test\_require\_auth\_missing\_auth\_header(client, app):  
 app.route("/protected")(jwt\_utils.require\_auth(lambda: jsonify(success=True)))  
  
 with app.test\_client() as client:  
 resp = client.get("/protected")  
 assert resp.status\_code == 401  
 assert resp.json["error"] == "Authorization header missing"  
  
  
def test\_require\_auth\_invalid\_auth\_header(client, app):  
 app.route("/protected")(jwt\_utils.require\_auth(lambda: jsonify(success=True)))  
  
 with app.test\_client() as client:  
 headers = {"Authorization": "InvalidToken abc"}  
 resp = client.get("/protected", headers=headers)  
 assert resp.status\_code == 401  
 assert resp.json["error"] == "Authorization header missing"  
  
  
def test\_require\_auth\_expired\_token(client, app):  
 app.route("/protected")(jwt\_utils.require\_auth(lambda: jsonify(success=True)))  
  
 expired\_token = create\_token({"sub": "user1"}, expired=True)  
 auth\_header = f"Bearer {expired\_token}"  
  
 with app.test\_client() as client:  
 resp = client.get("/protected", headers={"Authorization": auth\_header})  
 assert resp.status\_code == 401  
 assert resp.json["error"] == "Token expired"  
  
  
def test\_require\_auth\_invalid\_token(client, app):  
 app.route("/protected")(jwt\_utils.require\_auth(lambda: jsonify(success=True)))  
  
 invalid\_token = "abc.def.ghi"  
 auth\_header = f"Bearer {invalid\_token}"  
  
 with app.test\_client() as client:  
 resp = client.get("/protected", headers={"Authorization": auth\_header})  
 assert resp.status\_code == 401  
 assert resp.json["error"] == "Invalid token"  
  
  
def test\_require\_auth\_valid\_token(client, app):  
 app.route("/protected")(jwt\_utils.require\_auth(lambda: jsonify(success=True)))  
  
 token = create\_token({"sub": "user1"})  
 auth\_header = f"Bearer {token}"  
  
 with app.test\_client() as client:  
 resp = client.get("/protected", headers={"Authorization": auth\_header})  
 assert resp.status\_code == 200  
 assert resp.json == {"success": True}

### 📄 tests\test\_main\_pipeline.py

import types  
import pytest  
from unittest.mock import patch, MagicMock  
import src.scripts.main\_pipeline as main\_pipeline  
  
  
def test\_main\_pipeline\_calls\_full\_ingestion(monkeypatch):  
 test\_args = ["main\_pipeline.py", "--athlete\_id", "123"]  
 monkeypatch.setattr("sys.argv", test\_args)  
  
 # Mock token with concrete expires\_at attribute  
 mock\_token = types.SimpleNamespace(expires\_at=9999999999)  
  
 # Mock query chain to return the token  
 mock\_filter = MagicMock()  
 mock\_filter.first.return\_value = mock\_token  
 mock\_query = MagicMock()  
 mock\_query.filter.return\_value = mock\_filter  
  
 mock\_session = MagicMock()  
 mock\_session.query.return\_value = mock\_query  
  
 patch\_get\_session = patch("src.scripts.main\_pipeline.get\_session", return\_value=mock\_session)  
 patch\_get\_session.start()  
  
 patch\_get\_tokens\_sa = patch("src.scripts.main\_pipeline.get\_tokens\_sa", return\_value=mock\_token)  
 patch\_get\_tokens\_sa.start()  
  
 # Patch run\_full\_ingestion\_and\_enrichment to MagicMock  
 mock\_ingestion = patch("src.scripts.main\_pipeline.run\_full\_ingestion\_and\_enrichment").start()  
  
 # PATCH refresh\_token\_if\_expired to a no-op to avoid MagicMock expires\_at issue  
 patch\_refresh\_token = patch("src.scripts.main\_pipeline.refresh\_token\_if\_expired", return\_value=None)  
 patch\_refresh\_token.start()  
  
 with pytest.raises(SystemExit):  
 main\_pipeline.main()  
  
 mock\_ingestion.assert\_called\_once()  
 args, kwargs = mock\_ingestion.call\_args  
 assert args[0] == mock\_session  
 assert args[1] == 123  
 assert kwargs.get("lookback\_days", 30) == 30  
 assert kwargs.get("batch\_size", 10) == 10  
  
 patch.stopall()  
  
  
  
  
  
  
def test\_main\_pipeline\_calls\_specific\_activity(monkeypatch):  
 test\_args = ["main\_pipeline.py", "--athlete\_id", "123", "--activity\_id", "456"]  
 monkeypatch.setattr("sys.argv", test\_args)  
  
 mock\_session = MagicMock()  
 mock\_specific = patch("src.scripts.main\_pipeline.ingest\_specific\_activity").start()  
 patch("src.scripts.main\_pipeline.get\_session", return\_value=mock\_session).start()  
  
 with pytest.raises(SystemExit):  
 main\_pipeline.main()  
  
 mock\_specific.assert\_called\_once\_with(mock\_session, 123, 456)  
 patch.stopall()  
  
def test\_main\_pipeline\_calls\_between\_dates(monkeypatch):  
 test\_args = [  
 "main\_pipeline.py", "--athlete\_id", "123",  
 "--start\_date", "2025-01-01", "--end\_date", "2025-01-05"  
 ]  
 monkeypatch.setattr("sys.argv", test\_args)  
  
 mock\_session = MagicMock()  
 mock\_between = patch("src.scripts.main\_pipeline.ingest\_between\_dates").start()  
 patch("src.scripts.main\_pipeline.get\_session", return\_value=mock\_session).start()  
  
 with pytest.raises(SystemExit):  
 main\_pipeline.main()  
  
 called\_args = mock\_between.call\_args[0]  
 assert called\_args[0] == mock\_session  
 assert called\_args[1] == 123  
 assert str(called\_args[2].date()) == "2025-01-01"  
 assert str(called\_args[3].date()) == "2025-01-05"  
 patch.stopall()  
  
def test\_main\_pipeline\_handles\_exception(monkeypatch):  
 test\_args = ["main\_pipeline.py", "--athlete\_id", "123"]  
 monkeypatch.setattr("sys.argv", test\_args)  
  
 mock\_session = MagicMock()  
 patch("src.scripts.main\_pipeline.get\_session", return\_value=mock\_session).start()  
 patch("src.scripts.main\_pipeline.run\_full\_ingestion\_and\_enrichment", side\_effect=Exception("fail")).start()  
  
 with pytest.raises(SystemExit):  
 main\_pipeline.main()  
  
 patch.stopall()

### 📄 tests\test\_oauth\_flow.py

import os  
import requests  
from unittest.mock import patch, Mock  
  
  
def test\_oauth\_callback\_missing\_code(client):  
 resp = client.get("/auth/callback")  
 assert resp.status\_code == 400  
  
  
@patch("requests.post")  
def test\_oauth\_callback\_strava\_http\_error(mock\_post, client):  
 mock\_response = Mock()  
 mock\_response.raise\_for\_status.side\_effect = requests.exceptions.HTTPError("Strava error")  
 mock\_response.text = "Bad Request"  
 mock\_post.return\_value = mock\_response  
  
 resp = client.get("/auth/callback?code=badcode")  
 assert resp.status\_code == 502  
  
  
@patch("requests.post")  
def test\_oauth\_callback\_incomplete\_response(mock\_post, client):  
 mock\_response = Mock()  
 mock\_response.raise\_for\_status.return\_value = None  
 mock\_response.json.return\_value = {"athlete": {}} # Simulates missing athlete\_id  
 mock\_post.return\_value = mock\_response  
  
 resp = client.get("/auth/callback?code=incomplete")  
 assert resp.status\_code == 500   
  
  
def test\_oauth\_callback\_missing\_env(monkeypatch, client):  
 monkeypatch.delenv("STRAVA\_CLIENT\_ID", raising=False)  
 monkeypatch.delenv("STRAVA\_CLIENT\_SECRET", raising=False)  
 monkeypatch.delenv("REDIRECT\_URI", raising=False)  
  
 resp = client.get("/auth/callback?code=fakecode")  
 assert resp.status\_code == 502

### 📄 tests\test\_split\_dao.py

# tests/test\_split\_dao.py  
  
import pytest  
from src.db.dao.split\_dao import upsert\_splits  
from src.db.models.splits import Split  
from src.db.models.activities import Activity # ✅ Import Activity to insert FK parent  
  
def test\_upsert\_splits\_basic(sqlalchemy\_session):  
 # ✅ Insert parent Activity row to satisfy ForeignKey constraint  
 sqlalchemy\_session.add(Activity(activity\_id=123, athlete\_id=1))  
 sqlalchemy\_session.commit()  
  
 splits = [  
 {  
 "activity\_id": 123,  
 "lap\_index": 1,  
 "distance": 1000.0,  
 "elapsed\_time": 300,  
 "moving\_time": None,  
 "average\_speed": 3.33,  
 "max\_speed": None,  
 "start\_index": None,  
 "end\_index": None,  
 "split": 1 # Ensure it's stored as INTEGER  
 },  
 {  
 "activity\_id": 123,  
 "lap\_index": 2,  
 "distance": 1000.0,  
 "elapsed\_time": 320,  
 "moving\_time": None,  
 "average\_speed": 3.12,  
 "max\_speed": None,  
 "start\_index": None,  
 "end\_index": None,  
 "split": 2 # Ensure it's stored as INTEGER  
 }  
 ]  
  
 # ✅ Perform the upsert  
 inserted = upsert\_splits(sqlalchemy\_session, splits)  
 assert inserted == 2  
  
 # ✅ Verify inserted rows  
 rows = sqlalchemy\_session.query(Split).filter\_by(activity\_id=123).order\_by(Split.lap\_index).all()  
 assert len(rows) == 2  
 assert rows[0].lap\_index == 1  
 assert rows[0].distance == 1000.0  
 assert rows[0].elapsed\_time == 300  
 assert rows[0].average\_speed == 3.33  
 assert isinstance(rows[0].split, int)

### 📄 tests\test\_split\_upsert\_idempotency.py

# tests/test\_split\_upsert\_idempotency.py  
  
from src.db.models.activities import Activity  
from src.db.dao.split\_dao import upsert\_splits  
from src.db.models.splits import Split  
  
def test\_upsert\_splits\_idempotency(sqlalchemy\_session):  
 # Insert parent activity  
 activity\_id = 55555  
 sqlalchemy\_session.add(Activity(activity\_id=activity\_id, athlete\_id=1))  
 sqlalchemy\_session.commit()  
  
 splits = [  
 {  
 "activity\_id": activity\_id,  
 "lap\_index": 1,  
 "distance": 1000.0,  
 "elapsed\_time": 300,  
 "moving\_time": 290,  
 "average\_speed": 3.3,  
 "max\_speed": 3.5,  
 "start\_index": 0,  
 "end\_index": 299,  
 "split": 1  
 }  
 ]  
  
 # First insert  
 inserted = upsert\_splits(sqlalchemy\_session, splits)  
 assert inserted == 1  
  
 # Second insert (should conflict-update, not duplicate)  
 inserted\_again = upsert\_splits(sqlalchemy\_session, splits)  
 assert inserted\_again == 1  
  
 # Verify only 1 row exists  
 rows = sqlalchemy\_session.query(Split).filter\_by(activity\_id=activity\_id).all()  
 assert len(rows) == 1  
 assert isinstance(rows[0].split, int)

### 📄 tests\test\_splits.py

import pytest  
from sqlalchemy.exc import IntegrityError  
from src.db.db\_session import get\_session  
from src.db.models.splits import Split, upsert\_splits  
from src.db.models.activities import Activity  
  
  
  
@pytest.fixture  
def session():  
 session = get\_session()  
 yield session  
 session.rollback()  
 session.close()  
  
def test\_model\_instantiation():  
 split = Split(  
 activity\_id=123,  
 lap\_index=1,  
 distance=1000.0,  
 elapsed\_time=600,  
 moving\_time=590,  
 average\_speed=3.4,  
 max\_speed=5.0,  
 split=1,  
 average\_heartrate=150.0,  
 pace\_zone=2,  
 conv\_distance=0.62,  
 conv\_avg\_speed=7.6,  
 conv\_moving\_time="9:50",  
 conv\_elapsed\_time="10:00",  
 )  
 assert split.activity\_id == 123  
 assert split.lap\_index == 1  
 assert split.conv\_moving\_time == "9:50"  
  
def test\_upsert\_inserts\_and\_updates(session):  
 # Delete existing activity if present to avoid PK conflict  
 existing = session.query(Activity).filter\_by(activity\_id=1).first()  
 if existing:  
 session.delete(existing)  
 session.commit()  
  
 dummy\_activity = Activity(activity\_id=1, athlete\_id=1, name="Test Activity")  
 session.add(dummy\_activity)  
 session.commit()  
  
 splits\_data = [  
 {"activity\_id": 1, "lap\_index": 1, "distance": 1609.34},  
 {"activity\_id": 1, "lap\_index": 2, "distance": 1609.34},  
 ]  
 upsert\_splits(session, splits\_data)  
  
 result = session.query(Split).filter(Split.activity\_id == 1).all()  
 assert len(result) == 2  
  
def test\_upsert\_empty\_list(session):  
 # Should not raise or commit anything  
 upsert\_splits(session, [])  
 assert True # Passed if no exception  
  
def test\_unique\_constraint(session):  
 existing = session.query(Activity).filter\_by(activity\_id=2).first()  
 if existing:  
 session.delete(existing)  
 session.commit()  
  
 dummy\_activity = Activity(activity\_id=2, athlete\_id=1, name="Another Activity")  
 session.add(dummy\_activity)  
 session.commit()  
  
 split\_data = [{"activity\_id": 2, "lap\_index": 1, "distance": 1000.0}]  
 upsert\_splits(session, split\_data)  
  
 split\_data\_updated = [{"activity\_id": 2, "lap\_index": 1, "distance": 1100.0}]  
 upsert\_splits(session, split\_data\_updated)  
  
 split = session.query(Split).filter\_by(activity\_id=2, lap\_index=1).one()  
 assert split.distance == 1100.0

### 📄 tests\test\_strava\_access\_service.py

import pytest  
from unittest.mock import patch, MagicMock  
from requests.exceptions import HTTPError  
from src.services.strava\_access\_service import StravaClient  
  
@pytest.fixture  
def client():  
 return StravaClient(access\_token="fake-token")  
  
@patch("src.services.strava\_access\_service.requests.request")  
def test\_request\_with\_backoff\_success(mock\_request, client):  
 mock\_resp = MagicMock()  
 mock\_resp.status\_code = 200  
 mock\_resp.json.return\_value = {"data": "ok"}  
 mock\_request.return\_value = mock\_resp  
  
 result = client.\_request\_with\_backoff("GET", "http://test-url")  
 assert result == {"data": "ok"}  
 mock\_request.assert\_called\_once()  
  
@patch("src.services.strava\_access\_service.requests.request")  
@patch("time.sleep", return\_value=None)  
def test\_request\_with\_backoff\_rate\_limit\_retries(mock\_sleep, mock\_request, client):  
 resp\_429 = MagicMock(status\_code=429)  
 resp\_429.raise\_for\_status.side\_effect = None  
 resp\_429.json.return\_value = {}  
  
 resp\_200 = MagicMock(status\_code=200)  
 resp\_200.json.return\_value = {"success": True}  
  
 mock\_request.side\_effect = [resp\_429, resp\_429, resp\_200]  
  
 result = client.\_request\_with\_backoff("GET", "http://test-url")  
 assert result == {"success": True}  
 assert mock\_request.call\_count == 3  
 assert mock\_sleep.call\_count == 2  
  
@patch("src.services.strava\_access\_service.requests.request")  
@patch("time.sleep", return\_value=None)  
def test\_request\_with\_backoff\_max\_retries\_exceeded(mock\_sleep, mock\_request, client):  
 resp\_429 = MagicMock(status\_code=429)  
 resp\_429.raise\_for\_status.side\_effect = None  
 resp\_429.json.return\_value = {}  
  
 mock\_request.return\_value = resp\_429  
  
 with pytest.raises(RuntimeError, match="Exceeded max retries"):  
 client.\_request\_with\_backoff("GET", "http://test-url")  
  
@patch("src.services.strava\_access\_service.requests.request")  
def test\_get\_activities\_pagination\_and\_limit(mock\_request, client):  
 batch1 = [{"id": 1}, {"id": 2}]  
 batch2 = [{"id": 3}]  
 batch3 = []  
  
 mock\_request.side\_effect = [  
 MagicMock(status\_code=200, json=lambda: batch1),  
 MagicMock(status\_code=200, json=lambda: batch2),  
 MagicMock(status\_code=200, json=lambda: batch3),  
 ]  
  
 activities = client.get\_activities(limit=3, per\_page=2)  
 assert len(activities) == 3  
 assert activities[0]["id"] == 1  
 assert mock\_request.call\_count == 2 # Corrected here  
  
@patch("src.services.strava\_access\_service.requests.request")  
def test\_get\_activity\_success(mock\_request, client):  
 expected = {"id": 123}  
 mock\_request.return\_value = MagicMock(status\_code=200, json=lambda: expected)  
  
 activity = client.get\_activity(123)  
 assert activity == expected  
 mock\_request.assert\_called\_once()  
  
@patch("src.services.strava\_access\_service.requests.request")  
def test\_get\_hr\_zones\_success\_and\_404(mock\_request, client):  
 mock\_request.return\_value = MagicMock(status\_code=200, json=lambda: {"zones": []})  
 result = client.get\_hr\_zones(1)  
 assert "zones" in result  
  
 # Simulate 404 HTTPError  
 mock\_resp = MagicMock(status\_code=404)  
 mock\_error = HTTPError(response=mock\_resp)  
 mock\_request.side\_effect = mock\_error  
 result = client.get\_hr\_zones(999)  
 assert result is None  
  
@patch("src.services.strava\_access\_service.requests.request")  
def test\_get\_splits\_success\_and\_404(mock\_request, client):  
 mock\_request.return\_value = MagicMock(status\_code=200, json=lambda: [{"lap": 1}])  
 splits = client.get\_splits(1)  
 assert len(splits) == 1  
  
 mock\_resp = MagicMock(status\_code=404)  
 mock\_error = HTTPError(response=mock\_resp)  
 mock\_request.side\_effect = mock\_error  
 splits = client.get\_splits(999)  
 assert splits == []  
  
@patch("src.services.strava\_access\_service.requests.request")  
def test\_get\_streams\_parsing\_and\_empty(mock\_request, client):  
 resp\_json = {  
 "heartrate": {"data": [100, 101, "102", "abc"]},  
 "cadence": {"data": [80, 81]},  
 "watts": None  
 }  
 mock\_request.return\_value = MagicMock(status\_code=200, json=lambda: resp\_json)  
  
 streams = client.get\_streams(1, ["heartrate", "cadence", "watts"])  
 assert streams["heartrate"] == [100.0, 101.0, 102.0]  
 assert streams["cadence"] == [80.0, 81.0]  
 assert streams["watts"] == []  
  
@patch("src.services.strava\_access\_service.requests.request")  
def test\_get\_streams\_handles\_bad\_data(mock\_request, client):  
 # Simulate bad data causing exception in float conversion  
 resp\_json = {  
 "heartrate": {"data": ["bad", "data", 123]},  
 }  
 mock\_request.return\_value = MagicMock(status\_code=200, json=lambda: resp\_json)  
  
 streams = client.get\_streams(1, ["heartrate"])  
 assert streams["heartrate"] == [123.0]

### 📄 tests\test\_sync.py

from unittest.mock import patch, MagicMock  
import pytest  
import os  
  
@pytest.fixture(scope="session", autouse=True)  
def set\_env\_vars():  
 os.environ["CRON\_SECRET\_KEY"] = "devkey123"  
  
  
  
@patch("src.services.activity\_service.StravaClient")  
@patch("src.services.activity\_service.get\_valid\_token", return\_value="fake-token")  
@patch("src.services.activity\_service.run\_enrichment\_batch", return\_value=1)  
@patch("src.routes.activity\_routes.ActivityIngestionService")  
def test\_sync\_success(mock\_ingestor, mock\_enrich, mock\_token, mock\_strava, client):  
 with patch("src.utils.config.CRON\_SECRET\_KEY", "devkey123"):  
 instance = mock\_ingestor.return\_value  
 instance.ingest\_recent.return\_value = 5  
 mock\_strava.return\_value.get\_activities.return\_value = []  
  
 resp = client.get("/sync/sync/123?key=devkey123")  
 assert resp.status\_code == 200  
 assert resp.json == {"inserted": 5}

### 📄 tests\test\_token\_service.py

import pytest  
from unittest.mock import patch, MagicMock  
from datetime import datetime, timedelta  
import jwt  
from requests.models import Response  
from src.services import token\_service  
  
  
from src.db.models.tokens import Token  
  
  
def test\_is\_expired():  
 past = int((datetime.utcnow() - timedelta(seconds=10)).timestamp())  
 future = int((datetime.utcnow() + timedelta(seconds=10)).timestamp())  
 assert token\_service.is\_expired(past) is True  
 assert token\_service.is\_expired(future) is False  
  
  
@patch("src.services.token\_service.get\_tokens\_sa")  
@patch("src.services.token\_service.is\_expired")  
def test\_get\_valid\_token\_success(mock\_is\_expired, mock\_get\_tokens):  
 mock\_session = MagicMock()  
 athlete\_id = 123  
 token\_data = {"access\_token": "abc", "expires\_at": 99999999999}  
 mock\_get\_tokens.return\_value = token\_data  
 mock\_is\_expired.return\_value = False  
  
 token = token\_service.get\_valid\_token(mock\_session, athlete\_id)  
 assert token == "abc"  
  
  
@patch("src.services.token\_service.get\_tokens\_sa", return\_value=None)  
def test\_get\_valid\_token\_no\_tokens(mock\_get\_tokens):  
 mock\_session = MagicMock()  
 athlete\_id = 123  
 with pytest.raises(RuntimeError):  
 token\_service.get\_valid\_token(mock\_session, athlete\_id)  
  
  
@patch("src.services.token\_service.get\_tokens\_sa")  
@patch("src.services.token\_service.refresh\_token\_static")  
@patch("src.services.token\_service.insert\_token\_sa")  
def test\_refresh\_access\_token\_success(mock\_insert, mock\_refresh\_static, mock\_get\_tokens):  
 mock\_session = MagicMock()  
 athlete\_id = 123  
 old\_token\_data = {"refresh\_token": "old\_refresh"}  
 new\_tokens = {  
 "access\_token": "new\_access",  
 "refresh\_token": "new\_refresh",  
 "expires\_at": 1234567890  
 }  
 mock\_get\_tokens.return\_value = old\_token\_data  
 mock\_refresh\_static.return\_value = new\_tokens  
  
 result = token\_service.refresh\_access\_token(mock\_session, athlete\_id)  
 assert result == new\_tokens  
 mock\_insert.assert\_called\_once\_with(  
 session=mock\_session,  
 athlete\_id=athlete\_id,  
 access\_token="new\_access",  
 refresh\_token="new\_refresh",  
 expires\_at=1234567890,  
 )  
  
  
@patch("src.services.token\_service.get\_tokens\_sa", return\_value=None)  
def test\_refresh\_access\_token\_no\_tokens(mock\_get\_tokens):  
 mock\_session = MagicMock()  
 athlete\_id = 123  
 with pytest.raises(RuntimeError):  
 token\_service.refresh\_access\_token(mock\_session, athlete\_id)  
  
  
@patch("src.services.token\_service.requests.post")  
def test\_refresh\_token\_static\_success(mock\_post):  
 mock\_resp = MagicMock(spec=Response)  
 mock\_resp.status\_code = 200  
 mock\_resp.json.return\_value = {"access\_token": "access", "refresh\_token": "refresh", "expires\_at": 12345}  
 mock\_post.return\_value = mock\_resp  
  
 tokens = token\_service.refresh\_token\_static("dummy\_refresh")  
 assert "access\_token" in tokens  
 mock\_post.assert\_called\_once()  
  
  
@patch("src.services.token\_service.requests.post")  
def test\_exchange\_code\_for\_token\_success(mock\_post):  
 mock\_resp = MagicMock(spec=Response)  
 mock\_resp.status\_code = 200  
 mock\_resp.json.return\_value = {"access\_token": "access", "refresh\_token": "refresh", "expires\_at": 12345}  
 mock\_post.return\_value = mock\_resp  
  
 tokens = token\_service.exchange\_code\_for\_token("dummy\_code")  
 assert "access\_token" in tokens  
 mock\_post.assert\_called\_once()  
  
  
@patch("src.services.token\_service.refresh\_token\_static")  
@patch("src.services.token\_service.get\_tokens\_sa")  
def test\_refresh\_token\_if\_expired\_true(monkeypatch):  
 mock\_session = MagicMock()  
 # Token expires in past to trigger refresh  
 expired\_token = Token(  
 athlete\_id=123,  
 access\_token="old",  
 refresh\_token="old\_refresh",  
 expires\_at=int((datetime.utcnow() - timedelta(hours=1)).timestamp())  
 )  
 mock\_query = MagicMock()  
 mock\_query.filter\_by.return\_value.first.return\_value = expired\_token  
 mock\_session.query.return\_value = mock\_query  
  
 # Patch refresh\_token\_static to avoid actual HTTP calls  
 monkeypatch.setattr("src.services.token\_service.refresh\_token\_static", lambda rt: {  
 "access\_token": "new\_access",  
 "refresh\_token": "new\_refresh",  
 "expires\_at": int((datetime.utcnow() + timedelta(hours=1)).timestamp())  
 })  
  
 from src.services import token\_service  
 result = token\_service.refresh\_token\_if\_expired(mock\_session, 123)  
 assert result is True  
  
  
@patch("src.services.token\_service.get\_tokens\_sa")  
def test\_refresh\_token\_if\_expired\_false(mock\_get\_tokens):  
 mock\_session = MagicMock()  
 athlete\_id = 123  
 mock\_get\_tokens.return\_value = {"expires\_at": 9999999999}  
 result = token\_service.refresh\_token\_if\_expired(mock\_session, athlete\_id)  
 assert result is False  
  
  
@patch("src.services.token\_service.get\_tokens\_sa", return\_value=None)  
def test\_refresh\_token\_if\_expired\_no\_tokens(mock\_get\_tokens):  
 mock\_session = MagicMock()  
 athlete\_id = 123  
 with pytest.raises(ValueError):  
 token\_service.refresh\_token\_if\_expired(mock\_session, athlete\_id)  
  
  
def test\_get\_authorization\_url\_valid():  
 url = token\_service.get\_authorization\_url()  
 assert "strava.com/oauth/authorize" in url  
 assert f"client\_id={token\_service.config.STRAVA\_CLIENT\_ID}" in url  
  
  
@patch("src.services.token\_service.insert\_token\_sa")  
@patch("src.services.token\_service.exchange\_code\_for\_token")  
@patch("src.services.token\_service.insert\_athlete")  
def test\_store\_tokens\_from\_callback(mock\_insert\_athlete, mock\_exchange\_code, mock\_insert\_token):  
 mock\_session = MagicMock()  
 code = "dummy\_code"  
 athlete\_info = {  
 "id": 123,  
 "firstname": "John",  
 "lastname": "Doe",  
 "email": "john@example.com"  
 }  
 token\_response = {  
 "athlete": athlete\_info,  
 "access\_token": "access",  
 "refresh\_token": "refresh",  
 "expires\_at": 1234567890  
 }  
 mock\_exchange\_code.return\_value = token\_response  
  
 athlete\_id = token\_service.store\_tokens\_from\_callback(code, mock\_session)  
 assert athlete\_id == 123  
 mock\_insert\_token.assert\_called\_once()  
 mock\_insert\_athlete.assert\_called\_once()  
  
  
@patch("src.services.token\_service.get\_session")  
@patch("src.services.token\_service.insert\_token\_sa")  
def test\_login\_user\_success(mock\_insert\_token, mock\_get\_session):  
 mock\_get\_session.return\_value = MagicMock()  
 data = {"username": token\_service.config.ADMIN\_USER, "password": token\_service.config.ADMIN\_PASS}  
  
 access\_token, refresh\_token = token\_service.login\_user(data)  
 assert access\_token is not None  
 assert refresh\_token is not None  
 mock\_insert\_token.assert\_called\_once()  
  
  
def test\_login\_user\_invalid\_credentials():  
 data = {"username": "bad", "password": "bad"}  
 with pytest.raises(PermissionError):  
 token\_service.login\_user(data)  
  
  
@patch("src.services.token\_service.jwt.decode")  
@patch("src.services.token\_service.get\_tokens\_sa")  
@patch("src.services.token\_service.get\_session")  
def test\_refresh\_token\_success\_basic(mock\_get\_session, mock\_get\_tokens, mock\_jwt\_decode):  
 mock\_get\_session.return\_value = MagicMock()  
 mock\_get\_tokens.return\_value = {"refresh\_token": "valid\_token"}  
 mock\_jwt\_decode.return\_value = {"sub": "admin"}  
  
 new\_token = token\_service.refresh\_token("valid\_token")  
 assert new\_token is not None  
  
  
@patch("src.services.token\_service.jwt.decode")  
def test\_refresh\_token\_expired\_signature(mock\_jwt\_decode):  
 mock\_jwt\_decode.side\_effect = jwt.ExpiredSignatureError  
 with pytest.raises(PermissionError):  
 token\_service.refresh\_token("token")  
  
  
@patch("src.services.token\_service.jwt.decode")  
def test\_refresh\_token\_invalid\_token(mock\_jwt\_decode):  
 mock\_jwt\_decode.side\_effect = jwt.InvalidTokenError  
 with pytest.raises(PermissionError):  
 token\_service.refresh\_token("token")  
  
  
def test\_delete\_athlete\_tokens():  
 mock\_session = MagicMock()  
 mock\_session.query().filter\_by().delete.return\_value = True  
  
 athlete\_id = 123  
 result = token\_service.delete\_athlete\_tokens(mock\_session, athlete\_id)  
  
 assert result is True  
 mock\_session.query().filter\_by().delete.assert\_called\_once()  
 mock\_session.commit.assert\_called\_once()  
  
  
def test\_logout\_user\_noop():  
 token\_service.logout\_user("token")  
  
  
@patch("src.services.token\_service.refresh\_token\_static")  
@patch("src.services.token\_service.jwt.decode")  
@patch("src.services.token\_service.get\_tokens\_sa")  
@patch("src.services.token\_service.get\_session")  
def test\_refresh\_token\_success(mock\_get\_session, mock\_get\_tokens, mock\_jwt\_decode, mock\_refresh\_static):  
 mock\_get\_session.return\_value = MagicMock()  
 mock\_get\_tokens.return\_value = {"refresh\_token": "valid\_token"}  
 mock\_jwt\_decode.return\_value = {"sub": "admin", "type": "refresh"}  
 mock\_refresh\_static.return\_value = {  
 "access\_token": "new\_access",  
 "refresh\_token": "new\_refresh",  
 "expires\_at": 1234567890  
 }  
  
 new\_token = token\_service.refresh\_token("valid\_token")  
 assert new\_token is not None

### 📄 tests\utils.py

import jwt  
import datetime  
  
def generate\_test\_token(user\_id, secret\_key, expires\_in=3600):  
 payload = {  
 "sub": user\_id,  
 "exp": datetime.datetime.utcnow() + datetime.timedelta(seconds=expires\_in)  
 }  
 return jwt.encode(payload, secret\_key, algorithm="HS256")

### 📄 wsgi.py

from src.app import create\_app  
app = create\_app()