# 📁 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>  
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 <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>  
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 <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>  
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 <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>  
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 <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>  
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 <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>  
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 <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>  
 <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 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>  
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 <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()

### 📄 run.py

import sys  
import os  
from pathlib import Path  
from datetime import datetime  
from dotenv import load\_dotenv  
  
print("DATABASE\_URL at runtime:", os.getenv("DATABASE\_URL"), flush=True)  
  
# ─────────────────────────────  
# 📦 Load Environment  
# ─────────────────────────────  
load\_dotenv()  
  
# Add project root to PYTHONPATH  
sys.path.insert(0, str(Path(\_\_file\_\_).resolve().parent))  
  
import src.utils.config as config  
from src.db.session import get\_db\_session  
from src.services.ingestion\_orchestration\_service import run\_full\_ingestion\_and\_enrichment  
  
print("📦 Starting run.py...", flush=True)  
  
# ─────────────────────────────  
# 🔧 Patch DB URL if needed  
# ─────────────────────────────  
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)  
  
# ─────────────────────────────  
# ⚙️ CRON Job Mode  
# ─────────────────────────────  
if \_\_name\_\_ == "\_\_main\_\_" and os.getenv("RUN\_CRON") == "true":  
 print(f"[CRON SYNC] ✅ Sync job started at {datetime.utcnow().isoformat()}", flush=True)  
 try:  
 session = get\_db\_session()  
 athlete\_id = int(os.getenv("ATHLETE\_ID", "123456")) # Ensure valid ID is set in Railway  
 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) # Exit to prevent Flask startup after cron run  
  
# ─────────────────────────────  
# 🚀 Normal Flask App Setup  
# ─────────────────────────────  
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  
  
# Check template directory  
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)  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 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()  
  
 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  
  
  
  
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.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.  
  
 Args:  
 session (Session): SQLAlchemy session object.  
 athlete\_id (int): ID of the athlete.  
 activities (list): List of activity dicts from Strava.  
  
 Returns:  
 int: Number of rows affected.  
 """  
 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

### 📄 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

### 📄 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\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 # Moved inside function  
 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 f"✅ Token stored for athlete\_id: {athlete\_id}", 200  
  
 except requests.exceptions.HTTPError as http\_err:  
 if http\_err.response and http\_err.response.status\_code == 400:  
 return jsonify({"error": "Invalid OAuth code or bad request"}), 401  
 traceback.print\_exc()  
 return jsonify({"error": str(http\_err)}), 502  
 except KeyError:  
 traceback.print\_exc()  
 return "❌ Strava callback data incomplete", 502  
 except Exception as e:  
 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\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.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 main():  
 print("⚙️ FLASK\_ENV =", os.getenv("FLASK\_ENV"))  
 print("⚙️ config.DATABASE\_URL =", config.DATABASE\_URL)  
 parser = argparse.ArgumentParser(description="Orchestrate full sync + enrichment for existing athlete")  
 parser.add\_argument("--athlete\_id", required=True, type=int)  
 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 to fetch per API page")  
  
 args = parser.parse\_args()  
 session = get\_session()  
  
 # Ensure token is available, or run OAuth flow  
 try:  
 tokens = get\_tokens\_sa(session, args.athlete\_id)  
 except Exception:  
 tokens = None  
  
 if not tokens:  
 logger.info(f"🔐 No token found for athlete {args.athlete\_id}. Launching OAuth flow...")  
 oauth\_cli.main(athlete\_id\_override=args.athlete\_id)  
  
 try:  
 if args.activity\_id:  
 ingest\_specific\_activity(session, args.athlete\_id, args.activity\_id)  
 elif args.start\_date and args.end\_date:  
 ingest\_between\_dates(  
 session,  
 args.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:  
 run\_full\_ingestion\_and\_enrichment(  
 session,  
 args.athlete\_id,  
 lookback\_days=args.lookback\_days,  
 batch\_size=args.batch\_size,  
 max\_activities=args.max\_activities,  
 per\_page=args.per\_page  
 )  
 except Exception as e:  
 logger.exception(f"❌ Error in main\_pipeline: {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  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 session = get\_session()  
 athlete\_id = 347085 # Replace with dynamic or loop if needed  
 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)  
 #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.access\_token = get\_valid\_token(session, athlete\_id)  
 self.client = StravaClient(self.access\_token)  
  
 def ingest\_recent(self, lookback\_days, max\_activities=None, per\_page=200):  
 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"] # ✅ Only keep runs  
 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):  
 after = int((datetime.utcnow() - timedelta(days=lookback\_days)).timestamp())  
 all\_activities = self.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"] # ✅ Only keep runs  
 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):  
 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"] # ✅ Only keep runs  
 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  
  
 for attempt in range(max\_retries):  
 response = requests.request(  
 method,  
 url,  
 headers={"Authorization": f"Bearer {self.access\_token}"},  
 \*\*kwargs  
 )  
  
 if response.status\_code == 429:  
 print(f"⚠️ Rate limit hit (429). Backing off {backoff} seconds...")  
 time.sleep(backoff)  
 backoff \*= 2  
 continue  
  
 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\_\_)  
  
  
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"])  
 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

### 📄 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"

### 📄 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

# 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  
  
# Load test environment variables  
load\_dotenv(dotenv\_path=".env.test", override=True)  
  
# Ensure project root is on sys.path  
sys.path.append(str(Path(\_\_file\_\_).resolve().parent.parent))  
  
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():  
 """Shared DB engine for the test session."""  
 database\_url = os.getenv("DATABASE\_URL")  
 print(f"DEBUG: Using DATABASE\_URL = {database\_url}")  
 engine = get\_engine(database\_url)  
 return engine  
  
  
@pytest.fixture(scope="function")  
def app(shared\_engine):  
 """Flask app fixture with test config."""  
 database\_url = os.getenv("DATABASE\_URL")  
 app = create\_app({"TESTING": True, "DATABASE\_URL": database\_url})  
 yield app  
  
  
@pytest.fixture(scope="function")  
def client(app):  
 """HTTP client for app."""  
 return app.test\_client()  
  
  
@pytest.fixture(scope="function")  
def sqlalchemy\_session(shared\_engine):  
 """Provides isolated SQLAlchemy session with transaction rollback."""  
 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):  
 """Alias for SQLAlchemy session used in most tests."""  
 return sqlalchemy\_session  
  
  
@pytest.fixture(scope="function")  
def seed\_test\_data(test\_db\_session):  
 """Seeds athlete, token, and sample activity into DB."""  
 athlete = test\_db\_session.query(Athlete).filter\_by(athlete\_id=1).first()  
 if not athlete:  
 athlete = Athlete(athlete\_id=1, first\_name="Test", last\_name="Athlete")  
 test\_db\_session.add(athlete)  
  
 token = test\_db\_session.query(Token).filter\_by(athlete\_id=1).first()  
 if not token:  
 token = Token(  
 athlete\_id=1,  
 access\_token="test\_access\_token",  
 refresh\_token="test\_refresh\_token",  
 expires\_at=int((datetime.utcnow() + timedelta(days=1)).timestamp())  
 )  
 test\_db\_session.add(token)  
  
 activity = test\_db\_session.query(Activity).filter\_by(activity\_id=SAMPLE\_ACTIVITY\_JSON["activity\_id"]).first()  
 if not activity:  
 activity = 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.add(activity)  
  
 test\_db\_session.commit()  
  
  
@pytest.fixture(scope="function")  
def patched\_app(monkeypatch):  
 """Patched app with env var override and sync route mock."""  
 monkeypatch.setenv("CRON\_SECRET\_KEY", "devkey123")  
  
 with patch("src.routes.sync\_routes.sync\_recent") as mock\_sync\_recent:  
 mock\_sync\_recent.return\_value = 10  
 database\_url = os.getenv("DATABASE\_URL")  
 app = create\_app({"TESTING": True, "DATABASE\_URL": database\_url})  
 yield app  
  
  
@pytest.fixture(scope="function")  
def patched\_client(patched\_app):  
 """Patched client for routes tests."""  
 return patched\_app.test\_client()  
  
  
# 🔧 New: Patch token DAO and service layer for mocking token flow  
@pytest.fixture(scope="function")  
def patched\_token\_mocks():  
 """Mocks token retrieval logic in tests."""  
 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 src.db.models.activities import Activity  
from src.db.dao.activity\_dao import ActivityDAO  
  
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)  
 assert result == expected\_activity  
  
 # Check that query was called with Activity model  
 mock\_query.assert\_called\_once\_with(Activity)  
 mock\_filter.assert\_called\_once()  
 mock\_first.assert\_called\_once()  
  
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)  
 assert result is None  
  
@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": "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  
 assert mock\_convert.call\_count == 2  
 mock\_session.execute.assert\_called\_once()  
 mock\_session.commit.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\_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  
  
  
  
@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  
  
 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 url\_for  
import jwt  
from datetime import datetime, timedelta  
import src.utils.config as config  
from src.routes.auth\_routes import auth\_bp  
  
@pytest.fixture  
def client():  
 from flask import Flask  
 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 == 500 or response.status\_code == 400  
  
# --- /auth/login GET (Strava OAuth) ---  
  
@patch("src.routes.auth\_routes.get\_authorization\_url")  
def test\_strava\_login\_redirect(mock\_get\_auth\_url, client):  
 mock\_get\_auth\_url.return\_value = "http://fake-auth-url"  
 response = client.get("/auth/login")  
 assert response.status\_code == 302  
 assert response.location == "http://fake-auth-url"  
  
# --- /auth/callback GET ---  
  
@patch("src.routes.auth\_routes.get\_session")  
@patch("src.routes.auth\_routes.store\_tokens\_from\_callback")  
def test\_callback\_success(mock\_store\_tokens, mock\_get\_session, 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.routes.auth\_routes.get\_session")  
@patch("src.routes.auth\_routes.store\_tokens\_from\_callback", side\_effect=Exception("fail"))  
def test\_callback\_exception(mock\_store, mock\_session, client):  
 mock\_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,  
 "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]}  
}

### 📄 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  
  
@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 = 123456  
  
 # 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()  
  
 mock\_activities.return\_value = [{  
 "id": mock\_activity\_id,  
 "name": "Mock Activity",  
 "type": "Run",  
 "distance": 5000,  
 "moving\_time": 1500,  
 "elapsed\_time": 1550,  
 "total\_elevation\_gain": 80,  
 "average\_speed": 3.3,  
 "max\_speed": 4.0,  
 "suffer\_score": 45,  
 "average\_heartrate": 150,  
 "max\_heartrate": 170,  
 "calories": 300,  
 "start\_date": "2025-06-01T08:00:00Z"  
 }]  
 mock\_activity.return\_value = mock\_activities.return\_value[0]  
  
 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"  
 assert activity.start\_date.isoformat().startswith("2025-06-01")  
 assert activity.distance == 5000  
  
 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"}, {"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)  
 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"}, {"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:  
 ingest\_between\_dates(session, athlete\_id, start\_date, end\_date, batch\_size=1)  
  
 assert "Enrich error" in str(excinfo.value)  
 assert mock\_enrich.call\_count >= 1

### 📄 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 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\_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()  
  
 # ✅ Allow flexibility with kwargs  
 mock\_ingestion.assert\_called\_once()  
 args, kwargs = mock\_ingestion.call\_args  
 assert args[0] == mock\_session  
 assert args[1] == 123  
 assert kwargs["lookback\_days"] == 30  
 assert kwargs["batch\_size"] == 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  
  
@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") # ✅ 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  
 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  
  
  
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.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)  
 assert result is True  
 mock\_refresh\_access.assert\_called\_once()  
  
  
@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(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")  
  
  
@patch("src.services.token\_service.delete\_tokens\_sa")  
def test\_delete\_athlete\_tokens(mock\_delete\_tokens):  
 mock\_session = MagicMock()  
 athlete\_id = 123  
 result = token\_service.delete\_athlete\_tokens(mock\_session, athlete\_id)  
 assert result is True  
 mock\_delete\_tokens.assert\_called\_once\_with(mock\_session, athlete\_id)  
  
  
def test\_logout\_user\_noop():  
 # Function is empty, so just call to ensure no error  
 token\_service.logout\_user("token")

### 📄 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()