

# PsychSync - FastAPI API Framework Setup Guide

## Epic: Core Infrastructure API Framework Setup

Assignee: Backend Developer 1 | Effort: 12h | Priority: High

### Prerequisites

- Python 3.9+
- Git
- Virtual environment tool (venv, conda, or virtualenv)
- Code editor (VS Code, PyCharm)

### Step 1: Organize Existing Project Structure (1-2 hours)

Looking at your current structure, you have a good foundation but need to organize it properly. Your current structure shows:

```
psychsync/  
├── backend/  
│   ├── app/  
│   │   ├── api/  
│   │   ├── core/  
│   │   ├── db/  
│   │   └── schemas/  
│   └── main.py
```

#### 1.1 Complete Missing Directory Structure

From your `backend/` directory, run:

```
bash
```

```
cd backend/app
```

```
# Complete the missing API structure
```

```
mkdir -p api/dependencies
```

```
mkdir -p api/v1/endpoints
```

```
# Ensure core security exists
```

```
touch core/security.py
```

```
# Complete services structure
```

```
mkdir -p services/{auth,team,assessment}
```

```
# Ensure tests directory is properly set up
```

```
mkdir -p tests/{unit,integration}
```

## 1.2 Update Your Existing Requirements

Looking at your existing `backend/requirements.txt`, you'll need to add missing packages. Update your `backend/requirements.txt`:

```
text
```

```
# Add these to your existing requirements.txt
```

```
python-jose[cryptography]==3.3.0
```

```
passlib[bcrypt]==1.7.4
```

```
python-multipart==0.0.6
```

Create `backend/requirements-dev.txt` if it doesn't exist:

```
text
```

```
-r requirements.txt
```

```
black==23.10.1
```

```
isort==5.12.0
```

```
flake8==6.1.0
```

```
mypy==1.7.1
```

```
pytest==7.4.3
```

```
pytest-asyncio==0.21.1
```

## 1.3 Install Missing Dependencies

From your `backend/` directory:

```
bash
```

```
# Ensure you're in the backend directory
```

```
cd backend
```

```
# Install new dependencies
```

```
pip install python-jose[cryptography] passlib[bcrypt] python-multipart
```

```
pip install -r requirements-dev.txt
```

## 1.4 Verify Your Environment

Create `requirements.txt`:

```
text
```

```
fastapi==0.104.1
```

```
uvicorn[standard]==0.24.0
```

```
pydantic==2.4.2
```

```
pydantic-settings==2.0.3
```

```
python-jose[cryptography]==3.3.0
```

```
passlib[bcrypt]==1.7.4
```

```
python-multipart==0.0.6
```

```
sqlalchemy==2.0.23
```

```
alembic==1.12.1
```

```
psycopg2-binary==2.9.9
```

```
redis==5.0.1
```

```
celery==5.3.4
```

```
httpx==0.25.2
```

```
pytest==7.4.3
```

```
pytest-asyncio==0.21.1
```

Create `requirements-dev.txt`:

```
text
```

```
-r requirements.txt
```

```
black==23.10.1
```

```
isort==5.12.0
```

```
flake8==6.1.0
```

```
mypy==1.7.1
```

```
pre-commit==3.5.0
```

Install dependencies:

```
bash
```

```
pip install -r requirements-dev.txt
```

## Step 2: Configure Your Existing Config.py (1 hour)

Your existing `backend/app/core/config.py` needs to be updated with authentication settings. Here's the enhanced version:

```
python
```

```
from pydantic_settings import BaseSettings
from typing import Optional, List
import secrets
import os

class Settings(BaseSettings):
    # API Settings
    API_V1_STR: str = "/api/v1"
    PROJECT_NAME: str = "PsychSync API"
    PROJECT_DESCRIPTION: str = "Team Psychology & Optimization Platform API"
    VERSION: str = "1.0.0"

    # Security
    SECRET_KEY: str = secrets.token_urlsafe(32)
    ACCESS_TOKEN_EXPIRE_MINUTES: int = 30
    REFRESH_TOKEN_EXPIRE_DAYS: int = 7
    ALGORITHM: str = "HS256"

    # Database - Use your existing database URL
    DATABASE_URL: str = os.getenv("DATABASE_URL", "postgresql://user:password@localhost/psychsync")

    # Redis
    REDIS_URL: str = "redis://localhost:6379"

    # CORS
    BACKEND_CORS_ORIGINS: List[str] = [
        "http://localhost:3000", # Your frontend
        "http://localhost:8000",
        "http://localhost:5173" # Vite default port
    ]

    # Email (for future use)
    SMTP_TLS: bool = True
    SMTP_PORT: Optional[int] = None
    SMTP_HOST: Optional[str] = None
    SMTP_USER: Optional[str] = None
    SMTP_PASSWORD: Optional[str] = None

    # Environment
    ENVIRONMENT: str = "development"
    DEBUG: bool = True

class Config:
    env_file = ".env"
    case_sensitive = True
```

```
settings = Settings()
```

Create or update `backend/.env`:

```
env

SECRET_KEY=your-super-secret-key-here-change-this-in-production
DATABASE_URL=postgresql://your_existing_db_url_here
REDIS_URL=redis://localhost:6379
ENVIRONMENT=development
DEBUG=true
```

Create `app/core/database.py`:

```
python

from sqlalchemy import create_engine
from sqlalchemy.ext.declarative import declarative_base
from sqlalchemy.orm import sessionmaker
from app.core.config import settings

engine = create_engine(settings.DATABASE_URL)
SessionLocal = sessionmaker(autocommit=False, autoflush=False, bind=engine)

Base = declarative_base()

def get_db():
    db = SessionLocal()
    try:
        yield db
    finally:
        db.close()
```

## Step 3: Authentication Middleware Setup (3-4 hours)

### 3.1 Create Security Utilities

Create `app/core/security.py`:

```
python
```

```
from datetime import datetime, timedelta
from typing import Any, Union, Optional
from jose import jwt, JWTError
from passlib.context import CryptContext
from fastapi import HTTPException, status
from app.core.config import settings
```

```
pwd_context = CryptContext(schemes=["bcrypt"], deprecated="auto")
```

```
def create_access_token(
    subject: Union[str, Any], expires_delta: timedelta = None
) -> str:
    if expires_delta:
        expire = datetime.utcnow() + expires_delta
    else:
        expire = datetime.utcnow() + timedelta(
            minutes=settings.ACCESS_TOKEN_EXPIRE_MINUTES
        )
    to_encode = {"exp": expire, "sub": str(subject), "type": "access"}
    encoded_jwt = jwt.encode(to_encode, settings.SECRET_KEY, algorithm=settings.ALGORITHM)
    return encoded_jwt
```

```
def create_refresh_token(subject: Union[str, Any]) -> str:
    expire = datetime.utcnow() + timedelta(days=settings.REFRESH_TOKEN_EXPIRE_DAYS)
    to_encode = {"exp": expire, "sub": str(subject), "type": "refresh"}
    encoded_jwt = jwt.encode(to_encode, settings.SECRET_KEY, algorithm=settings.ALGORITHM)
    return encoded_jwt
```

```
def verify_password(plain_password: str, hashed_password: str) -> bool:
    return pwd_context.verify(plain_password, hashed_password)
```

```
def get_password_hash(password: str) -> str:
    return pwd_context.hash(password)
```

```
def verify_token(token: str, token_type: str = "access") -> Optional[str]:
    try:
        payload = jwt.decode(
            token, settings.SECRET_KEY, algorithms=[settings.ALGORITHM]
        )
        user_id: str = payload.get("sub")
        token_type_payload: str = payload.get("type")
```

```
if user_id is None or token_type_payload != token_type:
    return None
return user_id
except JWTError:
    return None
```

## 3.2 Create Authentication Dependencies

Create `app/api/dependencies/auth.py`:

```
python
```



```
from typing import Optional
from fastapi import Depends, HTTPException, status
from fastapi.security import HTTPBearer, HTTPAuthorizationCredentials
from sqlalchemy.orm import Session
from app.core.database import get_db
from app.core.security import verify_token
from app.models.user import User
```

```
security = HTTPBearer()
```

```
async def get_current_user(
    credentials: HTTPAuthorizationCredentials = Depends(security),
    db: Session = Depends(get_db)
) -> User:
    credentials_exception = HTTPException(
        status_code=status.HTTP_401_UNAUTHORIZED,
        detail="Could not validate credentials",
        headers={"WWW-Authenticate": "Bearer"},
    )
```

```
token = credentials.credentials
user_id = verify_token(token, "access")
```

```
if user_id is None:
    raise credentials_exception
```

```
user = db.query(User).filter(User.id == user_id).first()
if user is None:
    raise credentials_exception
```

```
return user
```

```
async def get_current_active_user(
    current_user: User = Depends(get_current_user),
) -> User:
    if not current_user.is_active:
        raise HTTPException(status_code=400, detail="Inactive user")
    return current_user
```

```
# Optional admin user dependency
```

```
async def get_current_superuser(
    current_user: User = Depends(get_current_user),
) -> User:
```

```
if not current_user.is_superuser:
    raise HTTPException(
        status_code=400, detail="The user doesn't have enough privileges"
    )
return current_user
```

### 3.3 Create User Model (Basic)

Create `app/models/__init__.py`:

```
python

# Empty file to make models a package
```

Create `app/models/user.py`:

```
python

from sqlalchemy import Boolean, Column, Integer, String, DateTime
from sqlalchemy.sql import func
from app.core.database import Base

class User(Base):
    __tablename__ = "users"

    id = Column(Integer, primary_key=True, index=True)
    email = Column(String, unique=True, index=True, nullable=False)
    hashed_password = Column(String, nullable=False)
    first_name = Column(String)
    last_name = Column(String)
    is_active = Column(Boolean, default=True)
    is_superuser = Column(Boolean, default=False)
    created_at = Column(DateTime(timezone=True), server_default=func.now())
    updated_at = Column(DateTime(timezone=True), onupdate=func.now())
```

## Step 4: FastAPI Application Setup (2-3 hours)

### 4.1 Create Pydantic Schemas

Create `app/schemas/__init__.py`:

```
python

# Empty file to make schemas a package
```

Create `app/schemas/user.py`:

python

```
from typing import Optional
from pydantic import BaseModel, EmailStr
from datetime import datetime
```

```
class UserBase(BaseModel):
    email: EmailStr
    first_name: Optional[str] = None
    last_name: Optional[str] = None
    is_active: bool = True

class UserCreate(UserBase):
    password: str

class UserUpdate(UserBase):
    password: Optional[str] = None

class UserInDBBase(UserBase):
    id: int
    created_at: datetime
    updated_at: Optional[datetime] = None

class Config:
    from_attributes = True

class User(UserInDBBase):
    pass

class UserInDB(UserInDBBase):
    hashed_password: str
```

Create `app/schemas/auth.py`:

python

```
from pydantic import BaseModel
from typing import Optional
```

```
class Token(BaseModel):
    access_token: str
    refresh_token: str
    token_type: str
```

```
class TokenPayload(BaseModel):
    sub: Optional[str] = None
```

```
class LoginRequest(BaseModel):
    email: str
    password: str
```

```
class RefreshTokenRequest(BaseModel):
    refresh_token: str
```

## 4.2 Create Main FastAPI Application

Create `app/main.py`:

```
python
```

```

from fastapi import FastAPI
from fastapi.middleware.cors import CORSMiddleware
from app.core.config import settings
from app.api.v1.api import api_router

app = FastAPI(
    title=settings.PROJECT_NAME,
    description=settings.PROJECT_DESCRIPTION,
    version=settings.VERSION,
    openapi_url=f"{settings.API_V1_STR}/openapi.json" if settings.DEBUG else None,
    docs_url=f"{settings.API_V1_STR}/docs" if settings.DEBUG else None,
    redoc_url=f"{settings.API_V1_STR}/redoc" if settings.DEBUG else None,
)

# Set up CORS middleware
app.add_middleware(
    CORSMiddleware,
    allow_origins=settings.BACKEND_CORS_ORIGINS,
    allow_credentials=True,
    allow_methods=["*"],
    allow_headers=["*"],
)

# Include API router
app.include_router(api_router, prefix=settings.API_V1_STR)

@app.get("/")
async def root():
    return {
        "message": "Welcome to PsychSync API",
        "version": settings.VERSION,
        "docs": f"{settings.API_V1_STR}/docs" if settings.DEBUG else "Not available in production"
    }

@app.get("/health")
async def health_check():
    return {"status": "healthy", "service": "psychsync-api"}

```

## 4.3 Create API Router Structure

Create `app/api/__init__.py`:

```
python
```

```
# Empty file to make api a package
```

Create `app/api/v1/__init__.py`:

```
python
```

```
# Empty file to make v1 a package
```

Create `app/api/v1/api.py`:

```
python
```

```
from fastapi import APIRouter
from app.api.v1.endpoints import auth, users
```

```
api_router = APIRouter()
```

```
api_router.include_router(auth.router, prefix="/auth", tags=["authentication"])
api_router.include_router(users.router, prefix="/users", tags=["users"])
```

## 4.4 Create Auth Endpoints

Create `app/api/v1/endpoints/__init__.py`:

```
python
```

```
# Empty file to make endpoints a package
```

Create `app/api/v1/endpoints/auth.py`:

```
python
```

```
from fastapi import APIRouter, Depends, HTTPException, status
from sqlalchemy.orm import Session
from app.core.database import get_db
from app.core.security import verify_password, create_access_token, create_refresh_token, verify_token
from app.models.user import User
from app.schemas.auth import Token, LoginRequest, RefreshTokenRequest
```

```
router = APIRouter()
```

```
@router.post("/login", response_model=Token)
```

```
async def login(
```

```
    login_data: LoginRequest,
```

```
    db: Session = Depends(get_db)
```

```
):
```

```
    user = db.query(User).filter(User.email == login_data.email).first()
```

```
    if not user or not verify_password(login_data.password, user.hashed_password):
```

```
        raise HTTPException(
```

```
            status_code=status.HTTP_401_UNAUTHORIZED,
```

```
            detail="Incorrect email or password",
```

```
        )
```

```
    if not user.is_active:
```

```
        raise HTTPException(
```

```
            status_code=status.HTTP_400_BAD_REQUEST,
```

```
            detail="Inactive user"
```

```
        )
```

```
    access_token = create_access_token(subject=user.id)
```

```
    refresh_token = create_refresh_token(subject=user.id)
```

```
    return {
```

```
        "access_token": access_token,
```

```
        "refresh_token": refresh_token,
```

```
        "token_type": "bearer"
```

```
    }
```

```
@router.post("/refresh", response_model=Token)
```

```
async def refresh_token(
```

```
    refresh_data: RefreshTokenRequest,
```

```
    db: Session = Depends(get_db)
```

```
):
```

```
    user_id = verify_token(refresh_data.refresh_token, "refresh")
```

```
    if not user_id:
```

```
        raise HTTPException(
```

```
            status_code=status.HTTP_401_UNAUTHORIZED,
```

```
        detail="Invalid refresh token",
    )

    user = db.query(User).filter(User.id == user_id).first()
    if not user or not user.is_active:
        raise HTTPException(
            status_code=status.HTTP_401_UNAUTHORIZED,
            detail="Invalid user",
        )

    access_token = create_access_token(subject=user.id)
    refresh_token = create_refresh_token(subject=user.id)

    return {
        "access_token": access_token,
        "refresh_token": refresh_token,
        "token_type": "bearer"
    }
```

Create `app/api/v1/endpoints/users.py`:

python



```
from fastapi import APIRouter, Depends, HTTPException
from sqlalchemy.orm import Session
from typing import List
from app.core.database import get_db
from app.api.dependencies.auth import get_current_active_user
from app.models.user import User
from app.schemas.user import User as UserSchema
```

```
router = APIRouter()
```

```
@router.get("/me", response_model=UserSchema)
async def read_user_me(
    current_user: User = Depends(get_current_active_user)
):
    return current_user
```

```
@router.get("/", response_model=List[UserSchema])
async def read_users(
    skip: int = 0,
    limit: int = 100,
    db: Session = Depends(get_db),
    current_user: User = Depends(get_current_active_user)
):
    users = db.query(User).offset(skip).limit(limit).all()
    return users
```

## Step 5: OpenAPI Documentation Configuration (1-2 hours)

### 5.1 Enhanced OpenAPI Configuration

Update `app/main.py` to include comprehensive OpenAPI configuration:

```
python
```

```
from fastapi import FastAPI
from fastapi.middleware.cors import CORSMiddleware
from fastapi.openapi.utils import get_openapi
from app.core.config import settings
from app.api.v1.api import api_router
```

```
def custom_openapi():
    if app.openapi_schema:
        return app.openapi_schema
```

```
openapi_schema = get_openapi(
    title=settings.PROJECT_NAME,
    version=settings.VERSION,
    description="""
    ## PsychSync API
```

The PsychSync API provides endpoints for team psychology analysis and optimization.

#### ### Features

- \* \*\*Authentication\*\*: JWT-based authentication system
- \* \*\*Team Management\*\*: Create and manage teams and members
- \* \*\*Assessments\*\*: Psychological assessment frameworks (MBTI, Big Five, DISC)
- \* \*\*Analytics\*\*: Team compatibility and performance analytics
- \* \*\*Optimization\*\*: AI-powered team optimization recommendations

#### ### Authentication

Most endpoints require authentication. To authenticate:

1. Use `/api/v1/auth/login` to get access and refresh tokens
2. Include the access token in the Authorization header as `Bearer <token>`
3. Use `/api/v1/auth/refresh` to refresh expired tokens

#### ### Rate Limiting

API endpoints are rate-limited to ensure fair usage and system stability.

```
""",
    routes=app.routes,
)
```

*# Add security scheme*

```
openapi_schema["components"]["securitySchemes"] = {
    "HTTPBearer": {
        "type": "http",
        "scheme": "bearer",
        "bearerFormat": "JWT",
    }
}
```

```
# Add global security requirement
openapi_schema["security"] = [{"HTTPBearer": []}]

app.openapi_schema = openapi_schema
return app.openapi_schema

app = FastAPI(
    title=settings.PROJECT_NAME,
    description=settings.PROJECT_DESCRIPTION,
    version=settings.VERSION,
    openapi_url=f"{settings.API_V1_STR}/openapi.json" if settings.DEBUG else None,
    docs_url=f"{settings.API_V1_STR}/docs" if settings.DEBUG else None,
    redoc_url=f"{settings.API_V1_STR}/redoc" if settings.DEBUG else None,
    contact={
        "name": "PsychSync Team",
        "email": "api@psychsync.com",
    },
    license_info={
        "name": "MIT License",
    },
)

app.openapi = custom_openapi

# Set up CORS middleware
app.add_middleware(
    CORSMiddleware,
    allow_origins=settings.BACKEND_CORS_ORIGINS,
    allow_credentials=True,
    allow_methods=["*"],
    allow_headers=["*"],
)

# Include API router
app.include_router(api_router, prefix=settings.API_V1_STR)

@app.get("/")
async def root():
    return {
        "message": "Welcome to PsychSync API",
        "version": settings.VERSION,
        "docs": f"{settings.API_V1_STR}/docs" if settings.DEBUG else "Not available in production"
    }
```

```
@app.get("/health")
async def health_check():
    return {"status": "healthy", "service": "psychsync-api"}
```

## Step 6: Database Setup (1 hour)

### 6.1 Initialize Alembic

```
bash

# Initialize Alembic
alembic init alembic

# Edit alembic.ini to use your database URL
# Replace sqlalchemy.url = driver://user:pass@localhost/dbname
# with your actual database URL or use env variable
```

Edit `alembic/env.py`:

```
python

from logging.config import fileConfig
from sqlalchemy import engine_from_config, pool
from alembic import context
from app.core.config import settings
from app.core.database import Base
from app.models import user # Import all models here

# this is the Alembic Config object
config = context.config

# Set the SQLAlchemy URL
config.set_main_option("sqlalchemy.url", settings.DATABASE_URL)

# Interpret the config file for Python logging
fileConfig(config.config_file_name)

# Set target metadata
target_metadata = Base.metadata

# Rest of the file remains the same...
```

Create initial migration:

```
bash
```

```
alembic revision --autogenerate -m "Initial migration"
alembic upgrade head
```

## Step 7: Testing Setup (1 hour)

### 7.1 Create Test Configuration

Create `app/tests/__init__.py`:

```
python

# Empty file to make tests a package
```

Create `app/tests/conftest.py`:

```
python
```

```

import pytest
from fastapi.testclient import TestClient
from sqlalchemy import create_engine
from sqlalchemy.orm import sessionmaker
from app.core.database import Base, get_db
from app.main import app

# Test database URL (use SQLite for tests)
SQLALCHEMY_DATABASE_URL = "sqlite:///./test.db"

engine = create_engine(
    SQLALCHEMY_DATABASE_URL, connect_args={"check_same_thread": False}
)
TestingSessionLocal = sessionmaker(autocommit=False, autoflush=False, bind=engine)

Base.metadata.create_all(bind=engine)

def override_get_db():
    try:
        db = TestingSessionLocal()
        yield db
    finally:
        db.close()

app.dependency_overrides[get_db] = override_get_db

client = TestClient(app)

@pytest.fixture
def test_client():
    return client

```

Create `app/tests/test_main.py`:

```
python
```

```
def test_read_root(test_client):
    response = test_client.get("/")
    assert response.status_code == 200
    assert "message" in response.json()

def test_health_check(test_client):
    response = test_client.get("/health")
    assert response.status_code == 200
    assert response.json() == {"status": "healthy", "service": "psychsync-api"}
```

## Step 8: Development Scripts (30 minutes)

### 8.1 Create Development Scripts

Create `run_dev.py`:

```
python

import uvicorn

if __name__ == "__main__":
    uvicorn.run(
        "app.main:app",
        host="0.0.0.0",
        port=8000,
        reload=True,
        log_level="info"
    )
```

Create `Makefile`:

```
makefile
```

**.PHONY:** install dev test lint format migration upgrade-db

**install:**

```
pip install -r requirements-dev.txt
```

**dev:**

```
python run_dev.py
```

**test:**

```
pytest app/tests/ -v
```

**lint:**

```
flake8 app/
```

```
mypy app/
```

**format:**

```
black app/
```

```
isort app/
```

**migration:**

```
alembic revision --autogenerate -m "$(message)"
```

**upgrade-db:**

```
alembic upgrade head
```

**clean:**

```
find . -type f -name "*.pyc" -delete
```

```
find . -type d -name "__pycache__" -delete
```

## Step 9: Docker Configuration (Optional - 30 minutes)

Create **Dockerfile**:

dockerfile



FROM python:3.9-slim

WORKDIR /app

COPY requirements.txt .

RUN pip install --no-cache-dir -r requirements.txt

COPY . .

EXPOSE 8000

CMD ["uvicorn", "app.main:app", "--host", "0.0.0.0", "--port", "8000"]

Create `docker-compose.yml`:

yaml

version: '3.8'

services:

api:

build: .

ports:

- "8000:8000"

environment:

- DATABASE\_URL=postgresql://psychsync\_user:psychsync\_pass@db:5432/psychsync\_db

- REDIS\_URL=redis://redis:6379

depends\_on:

- db

- redis

volumes:

- ./app

command: uvicorn app.main:app --host 0.0.0.0 --port 8000 --reload

db:

image: postgres:13

environment:

- POSTGRES\_USER=psychsync\_user

- POSTGRES\_PASSWORD=psychsync\_pass

- POSTGRES\_DB=psychsync\_db

ports:

- "5432:5432"

volumes:

- postgres\_data:/var/lib/postgresql/data

redis:

image: redis:6-alpine

ports:

- "6379:6379"

volumes:

postgres\_data:

## Step 10: Running and Testing (30 minutes)

### 10.1 Start the Development Server

bash

```
# Install dependencies
```

```
make install
```

```
# Start development server
```

```
make dev
```

```
# Or alternatively
```

```
python run_dev.py
```

## 10.2 Test the API

1. Open your browser and go to `http://localhost:8000/api/v1/docs`
2. You should see the Swagger UI documentation
3. Test the health check endpoint: `GET /health`
4. Test the root endpoint: `GET /`

## 10.3 Run Tests

```
bash
```

```
make test
```

## Final Project Structure

```
psychsync-api/  
├── app/  
│   ├── api/  
│   │   ├── dependencies/  
│   │   │   └── auth.py  
│   │   └── v1/  
│   │       ├── endpoints/  
│   │       │   ├── auth.py  
│   │       │   └── users.py  
│   │       └── api.py  
│   ├── core/  
│   │   ├── config.py  
│   │   ├── database.py  
│   │   └── security.py  
│   ├── models/  
│   │   └── user.py  
│   ├── schemas/  
│   │   ├── auth.py  
│   │   └── user.py  
│   └── tests/
```

```
| | |—— conftest.py
| | |—— test_main.py
| |—— main.py
|—— alembic/
|—— requirements.txt
|—— requirements-dev.txt
|—— .env
|—— run_dev.py
|—— Makefile
|—— Dockerfile
|—— docker-compose.yml
```

## Next Steps

After completing this setup, you should:

1. **Test all endpoints** using the Swagger UI at `/api/v1/docs`
2. **Set up your database** and run migrations
3. **Create additional models** for teams, assessments, etc.
4. **Implement the remaining authentication endpoints** (register, password reset)
5. **Add comprehensive tests** for all endpoints
6. **Set up CI/CD pipeline** with GitHub Actions
7. **Configure logging and monitoring**

This foundation provides a solid base for the PsychSync API with authentication middleware, OpenAPI documentation, and a scalable project structure.

## Troubleshooting

- If you encounter database connection issues, ensure PostgreSQL is running and credentials are correct
- For JWT token issues, verify your SECRET\_KEY is properly set
- If CORS errors occur, check your BACKEND\_CORS\_ORIGINS setting
- For import errors, ensure your Python path includes the app directory