■ README — E-Commerce Pets Backend

1. Overview

This backend project provides a REST API to manage users, products, carts, and orders for a pet e-commerce platform. It uses Flask, PostgreSQL, Redis (for caching), and JWT for authentication.

2. Requirements

- Python 3.11+
- PostgreSQL 14+
- Redis 6+ (optional, for caching)
- Git

3. Setup the Database

 Create a PostgreSQL database and schema: CREATE DATABASE ecommerce;
 c ecommerce;
 CREATE SCHEMA "ECommercePets";

- 2. Configure environment variable for DB connection: export DATABASE_URL=postgresql://user:password@localhost:5432/ecommerce
- 3. Apply migrations: alembic upgrade head

4. Environment Variables

Create a `.env` file with the following keys:
FLASK_APP=app:app
FLASK_ENV=development
DATABASE_URL=postgresql://postgres:postgres@localhost:5432/ecommerce
JWT_SECRET_KEY=super_secret_key
REDIS_URL=redis://localhost:6379/0

5. Run the Server

Start the Flask server: flask run

The API will be available at: http://127.0.0.1:5000

6. Verify Database Connection

To confirm the DB is connected:

- Ensure PostgreSQL is running locally.
- Use `psql` to connect manually with the same credentials as in DATABASE_URL.
- If connection fails, check credentials and schema name.

7. Testing

Run tests with: pytest -q

Run tests with coverage: pytest --cov=.

8. Common Endpoints

- POST /register \rightarrow Create a new user
- POST /login → Authenticate and get JWT
- GET /products → Retrieve product list (cached)
- POST /carts/{id}/checkout \rightarrow Complete a purchase

9. Project Structure

Proyecto_Final/

- ■■■ арр.ру
- ■■■ models.py
- ■■■ config.py
- **■■■** requirements.txt
- ■■■ /auth
- **■■■** /products
- ■■■ /carts
- **■■■** /tests
- **■■■** /migrations