Django Cheat Sheet for WalletWatch

Project Structure

walletWatch/

- manage.py   <- Project commands

- walletwatch/   <- Project config (settings, urls)

- tracker/   <- Your app for finance tracking

  - models.py   <- Database model (Transaction)

  - views.py   <- Handles logic and requests

  - admin.py   <- Admin site settings

- walletenv/   <- Virtual environment (isolated)

Django Lifecycle of a Model

models.py -> admin.py -> makemigrations -> migrate -> admin panel

1. Define your model (Transaction)

2. Register model in admin.py

3. Run 'makemigrations' to create DB instructions

4. Run 'migrate' to apply them

5. Use Django Admin to view and manage data

Key Concepts

- models.py: Database structure

- makemigrations: Generates SQL plans

- migrate: Applies changes to DB

- admin.py: Register models for admin UI

- INSTALLED_APPS: Enables app for use

- manage.py: Main command line tool

Construction Analogy

- models.py -> Blueprint

- makemigrations -> Planning
- migrate -> Construction
- admin.py -> Manager dashboard
- views.py -> Building logic
- urls.py -> Pathways