Web Development with Django

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About Me

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Why Python?

You might use Python for Web Development:

- Fundamental Knowledge of Python

- Easy to learn

- Readability

Frameworks

Django

FastAPI

Flask

CherryPy

About Django

- First Released: July 2005
- High-Level Python Framework
- Open Source (Since 2005)
- MVT Architecture
- Maintained by Django Software Foundation

Why not Flask?

- Suitable for Small-scale Projects
- No Batteries
- Development Speed
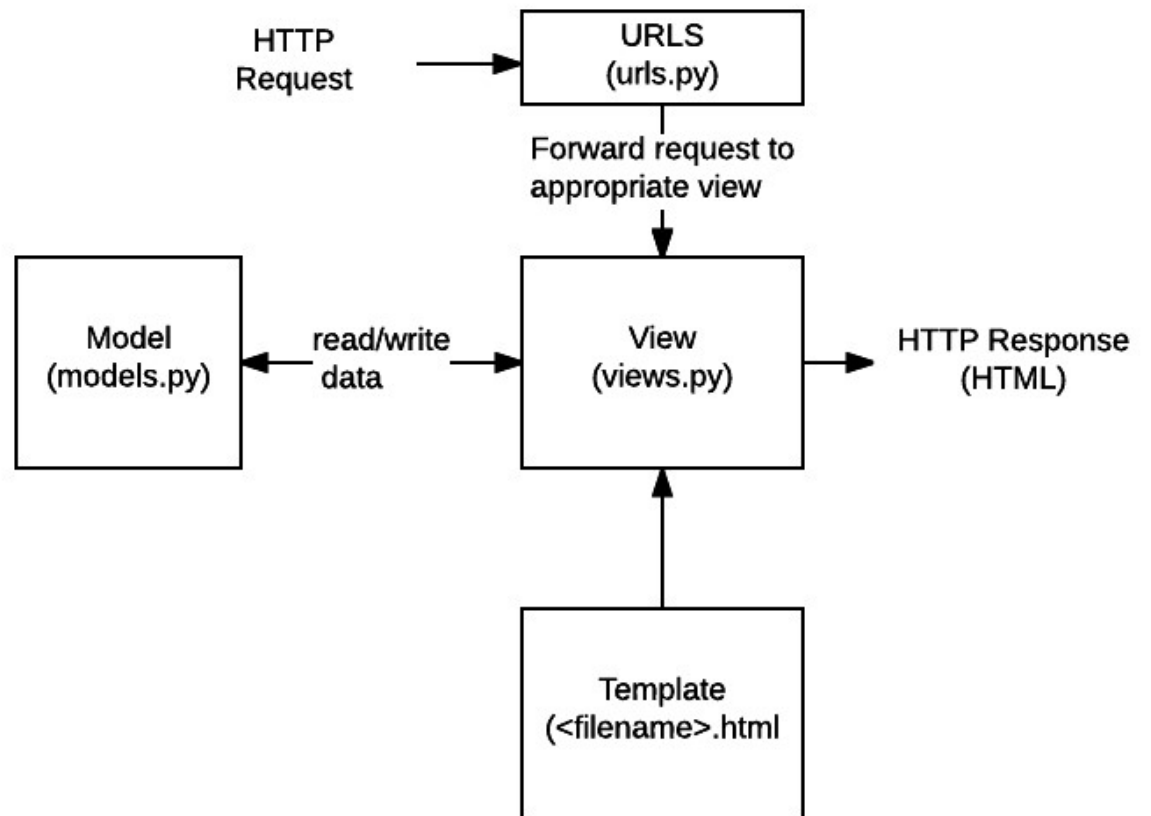- No Security Features

Flask

Why love Django?

- Support for ORM (Object-Relational Mapper)
- Built-in Admin Dashboard
- Easy to adapt
- Security Features
- Community Support

Django Architecture

Folder Structure

```
v project
  v app
    > migrations
      __init__.py
      admin.py
      apps.py
      models.py
      tests.py
      views.py
  v project
    > __pycache__
      __init__.py
      asgi.py
      settings.py
      urls.py
      wsgi.py
    db.sqlite3
    manage.py
```

Demo 1

Installation

Demo 2

HTML Rendering

Demo 3

API Development

What Just Happened?

- What's Django?
- Why Django?
- Other Frameworks?
- Demos

Important Links

- https://www.djangoproject.com/
- https://github.com/django/django
- https://www.youtube.com/@CodingEntrepreneurs/videos

Thank You

Q&A Time