Django & REST API Code-Along

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Getting Started

- Quick Introductions

    - REST Architecture Overview

    - Django

    - Django REST Framework

- Necessary Setup

- Start Project

REST Architecture[1]

- Alternative Approach to Web Services

  - SOAP

- Typically HTTP-based

- Standard HTTP Methods

  - GET

  - PUT

  - POST

  - DELETE

REST Architecture[1]

- Client-Server Model

- Stateless

  - Links Determine State

- Cacheable

  - Define Cacheable or Not

- Layered System

  - Client Not Necessarily Communicating with End Server

REST Architecture[1]

- Uniform Interface

- Identification of Resources

- Hypermedia as the Engine of App. State

  - HATEOAS

- 'Plug-and-Play' Services

- ❖ High-level Python Web Framework

- ❖ Quickly Develop Applications

- ❖ Built-In Security

- ❖ Scalable

- ❖ Built-In Administrative Interface

- ❖ MVC vs MTV

- ❖ Model = Model

- ❖ View = Template

- ❖ Controller = View

django REST framework

- ❖ Extension Based on Django

- ❖ Toolkit to Easily Build Web APIs

- ❖ Built-In Web Browsable API

- ❖ Customizable

    - ❖ Basic Features

    - ❖ Enhanced Features

Necessary Setup

- Python 2 vs 3

- Python 2.x

  - Supported by More Libraries

  - 2.7 Pre-Loaded on Mac

- Python 3.x

  - Continually Building Support

Necessary Setup

- pip

    - https://bootstrap.pypa.io/get-pip.py

        - Windows: Add to System Path: C:\<path_to_python>\Scripts

    - python get-pip.py

        - Python 3: python3 get-pip.py
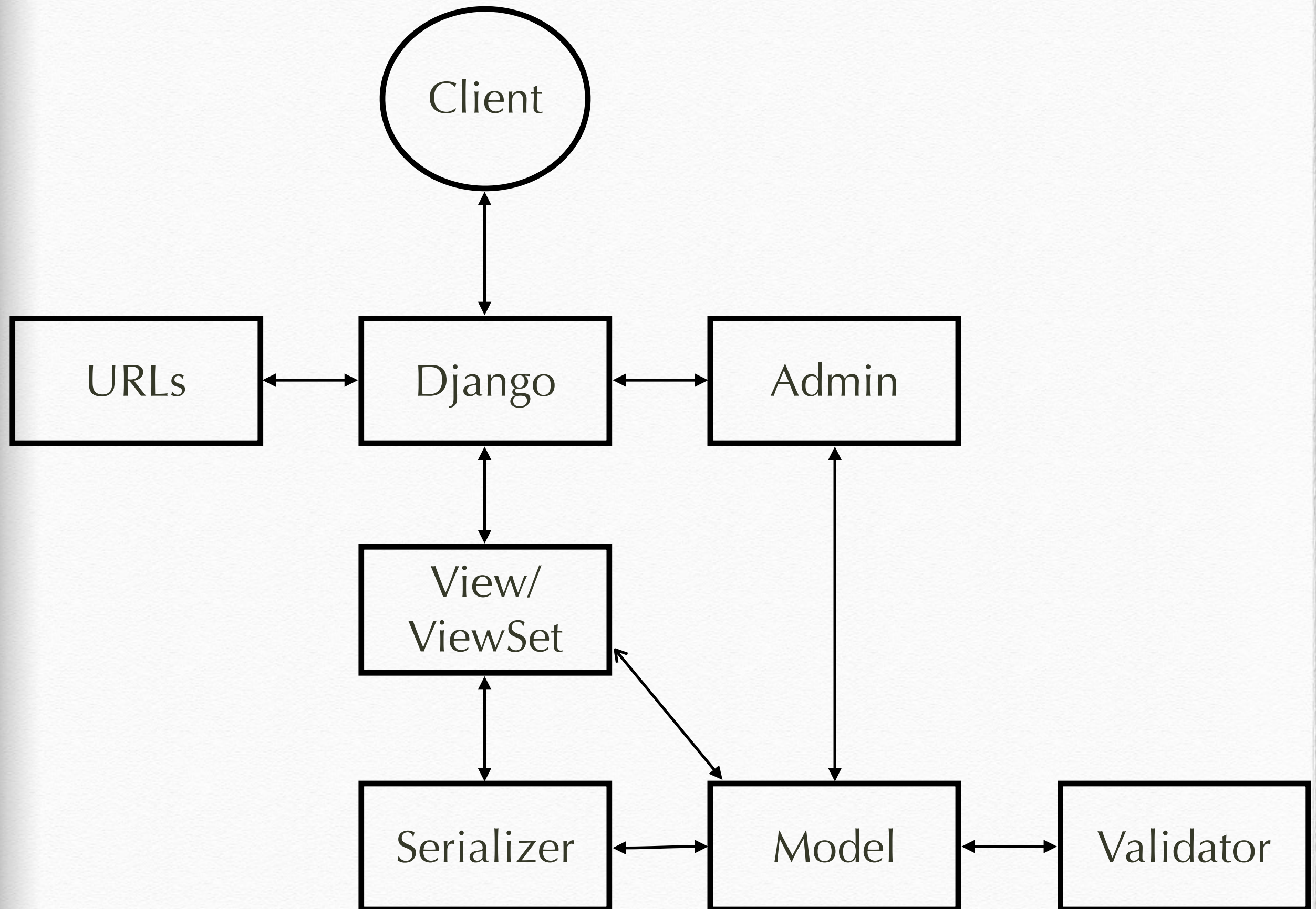
- virtualenv

    - pip install virtualenv

    - cd <folder_to_use_for_project>

    - virtualenv venv

        - Python 3: virtualenv -p python3 venv

    - . venv/bin/activate

        - Windows: venv\Scripts\activate

Necessary Setup

❖ Django

  ❖ pip install django

❖ Django REST Framework (DRF)

  ❖ pip install djangorestframework

References

1. Representational State Transfer

2. Django

3. Django REST Framework

Thank you!

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