

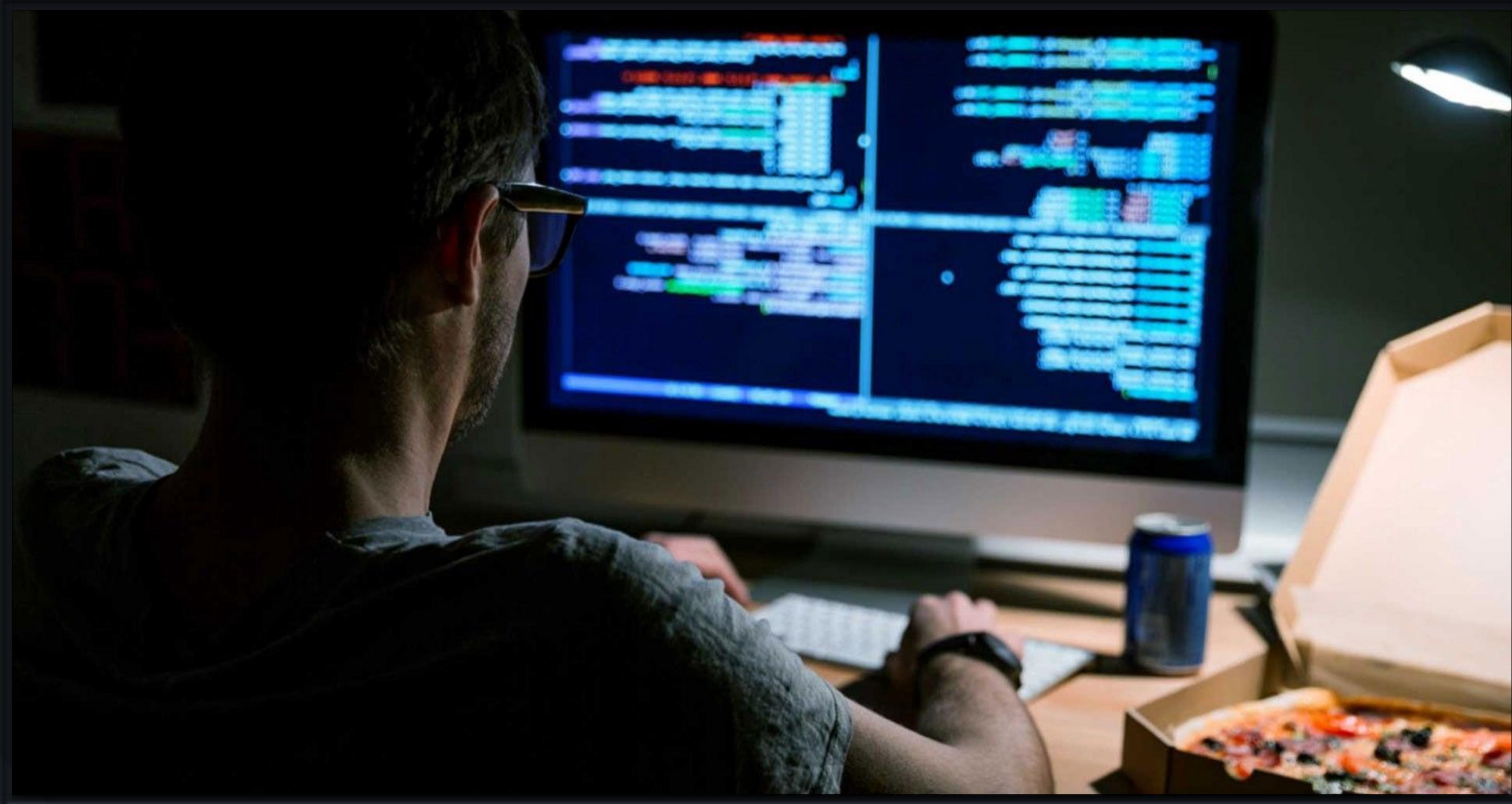


INTRO TO BACKEND DEVELOPMENT

DAY 9

04/12/2021
Instructor - Casey Wilson
TA - Kevin Dublin

Take Home Challenge Review



Check In Time



Django Time



So Why Django?

- Rich Ecosystem
- Admin Panel
- SEO
- Pluggable
- ORM (Database Migrator)
- Power of Python
- Easy Syntax
- Machine Learning
- Scalable
- Time Tested
- MVT Architecture
- Secure

Django Terms

- Model
 - Python Object representation of the database
- View
 - Python query language for grabbing data from the database
- Template
 - HTML + Python for displaying data on webpages

Django Terms Continued

- Form
 - An HTML input for collecting data
- Model Form
 - Automatically generating a form based on a model's data
- Admin
 - A “backend” to your website used for managing data / users / roles

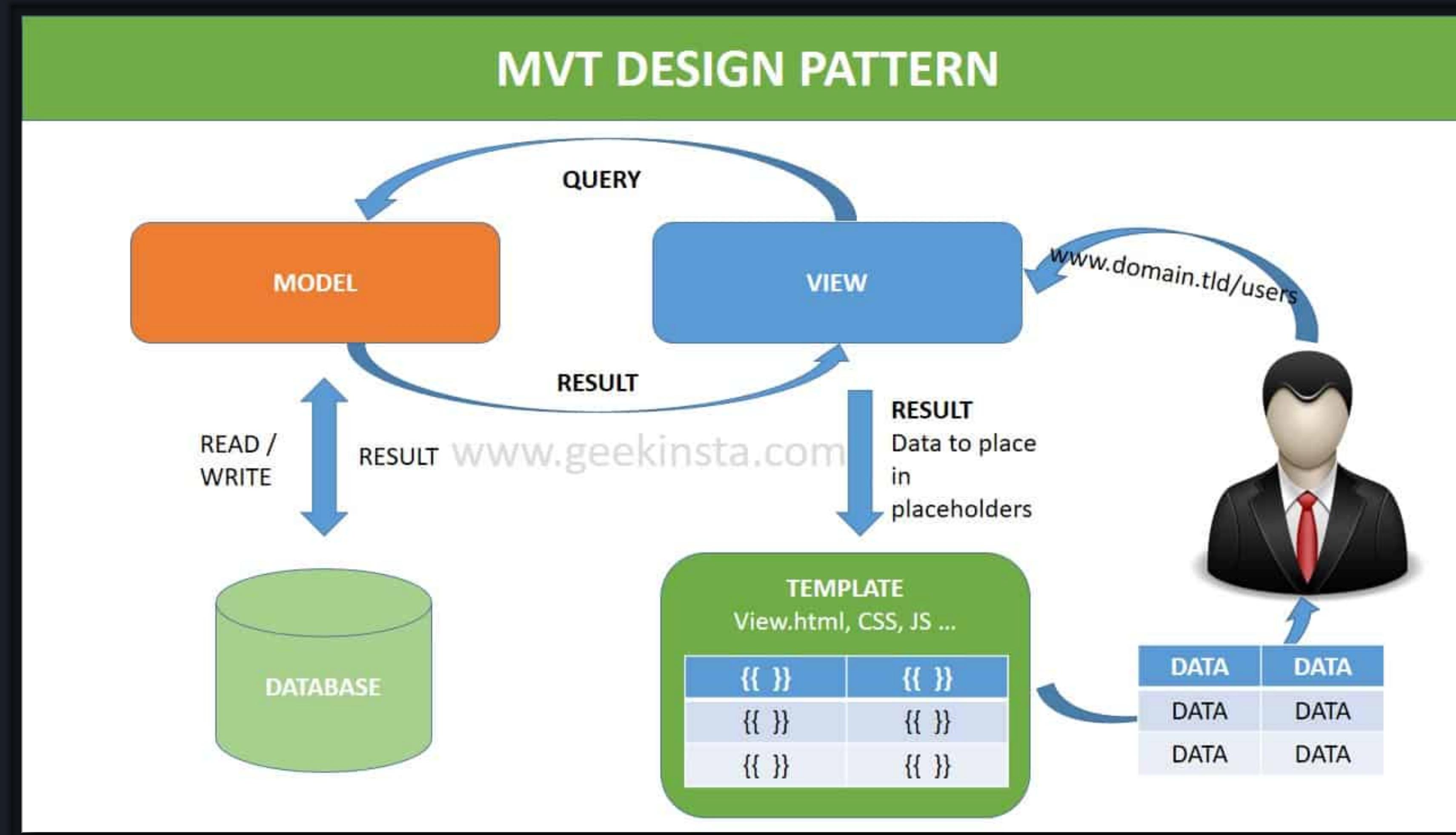
Django Terms Continued

- Slug
 - How a URL is represented with parameters
- Queryset
 - Object(s) that is/are fetched from the database
- Superuser
 - The user who administers the project

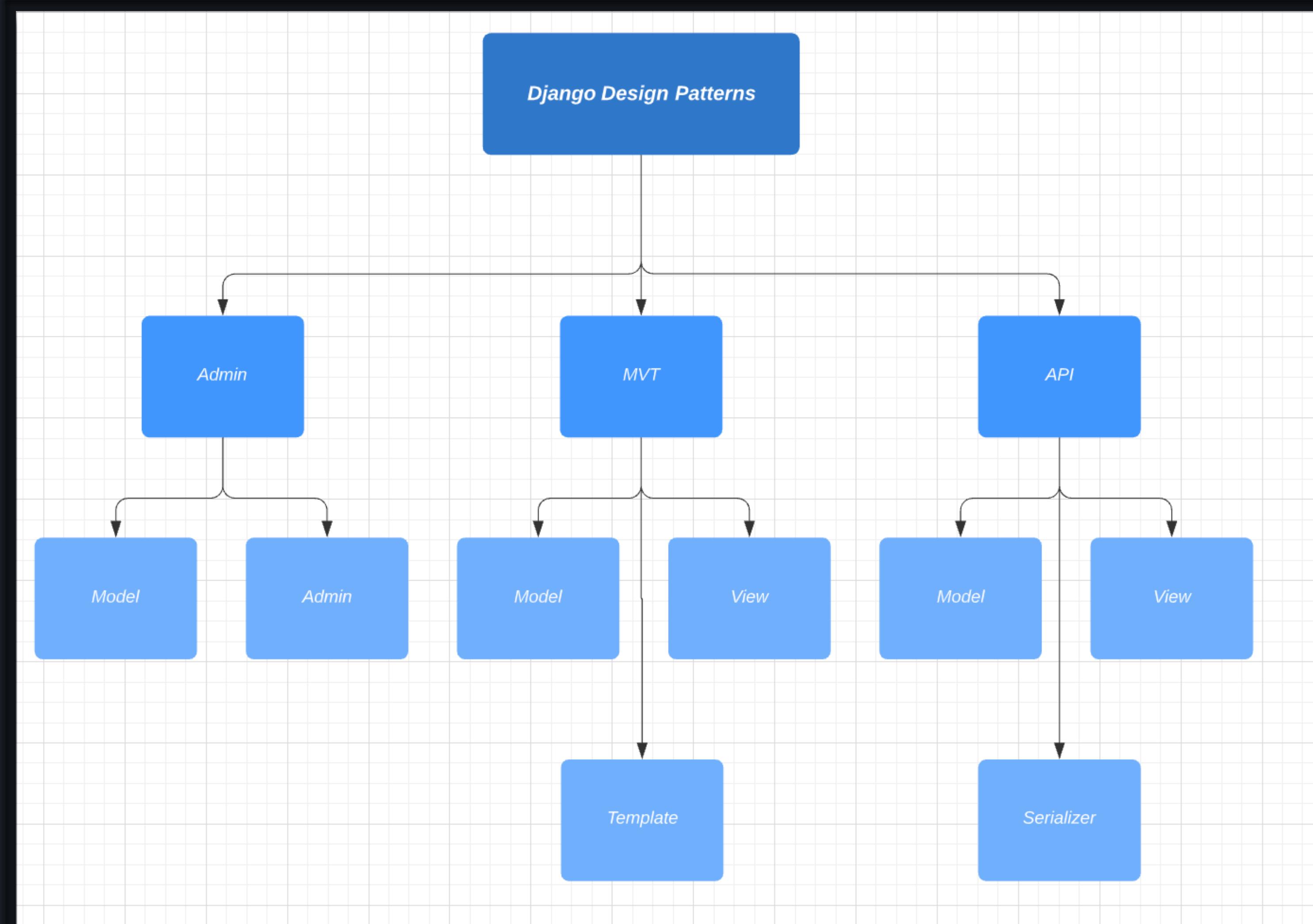
Django Terms Continued

- Apps
 - A specific set of functionality within your project
- Project
 - The entire code for your web application
- ORM (Object Relational Mapper)
 - The portion of Django that “talks to” the database

How Does Django Work?



Design Patterns - Choose Your Path



Django vs Flask

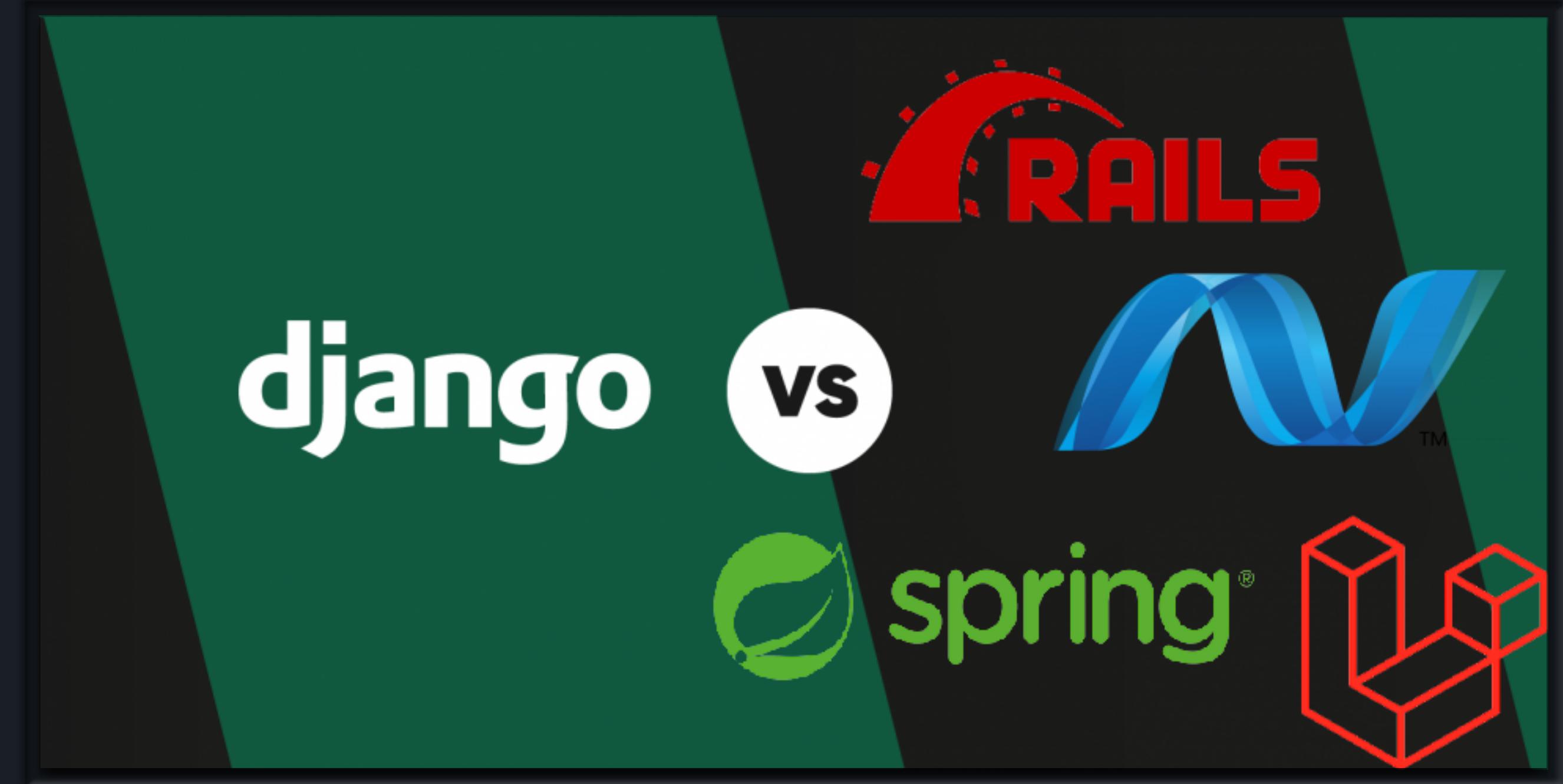
- Django
 - Full stack
 - Fast development
 - Admin
 - ORM
 - Scales Nicely



- Flask
 - Lightweight
 - Full Control
 - Non-opinionated
 - Work closer with database
 - Flexible

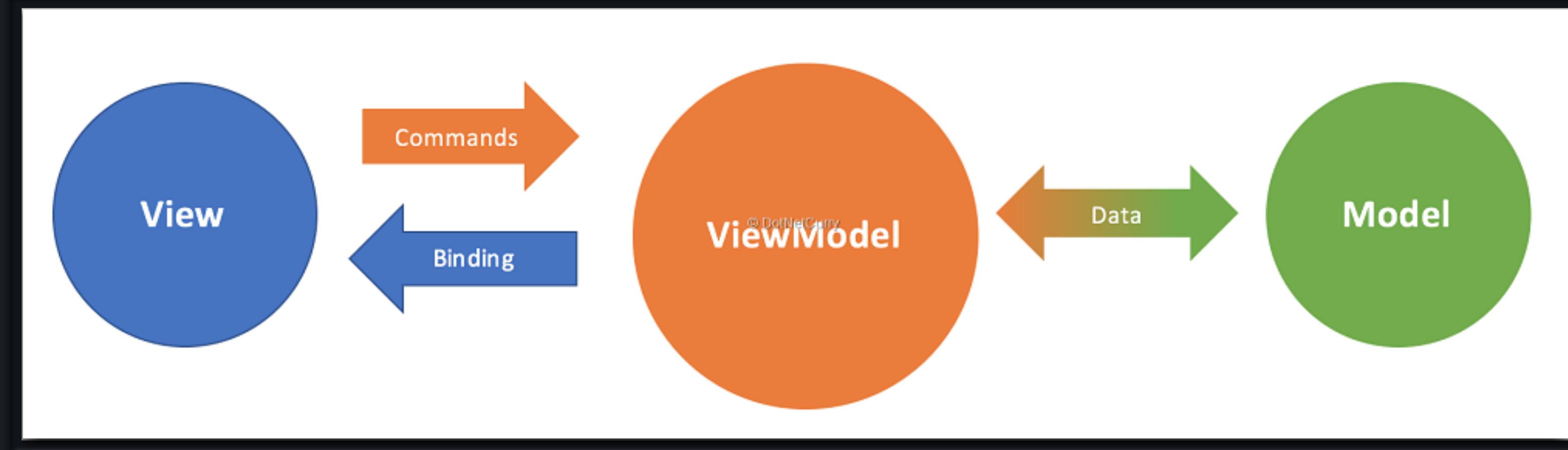
Django vs MVC (RoR, .NET, etc)

- MVT - MVC
 - Model - Model
 - View - Controller
 - Template - View



Django vs MVVM (Vue, React, etc)

- MVVM
 - Model => Data Transactions
 - View => Virtual DOM
 - View Model => Alters the Virtual DOM based on model



Django In Just 7 Easy Steps



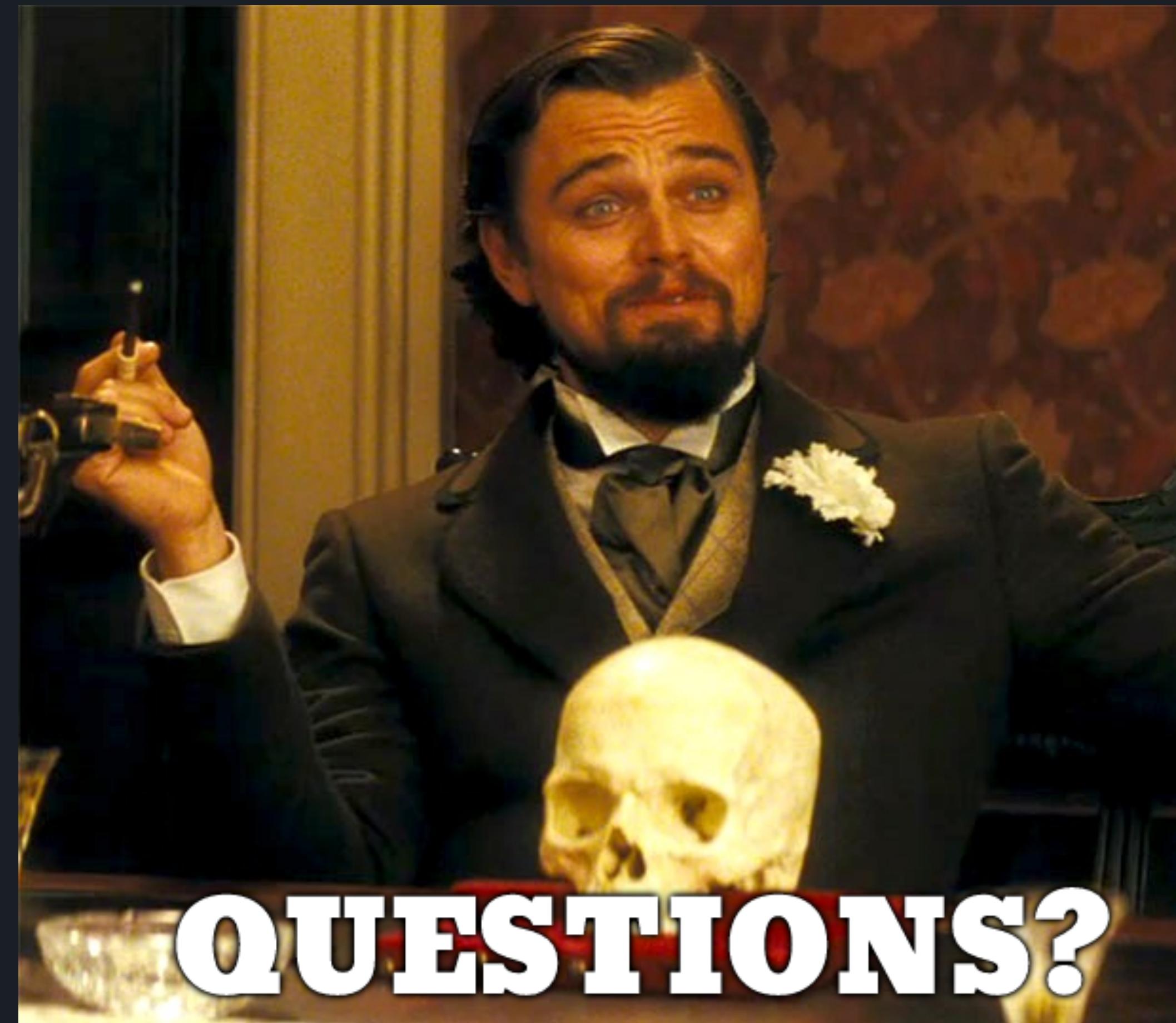
Django Framework Structure

Django be like...



**You get a folder!
And you get a folder!
You all get folders!**

Questions



Take Home Challenge

