



INTRO TO BACKEND DEVELOPMENT

DAY 16

05/05/2021

Instructor - Casey Wilson

TA - Kevin Dublin

Meet the Instructor



Name

- Casey Wilson

Current Job

- Database Architect
@PressedJuicery

Qualifications

- BS in Computer Science

Hobbies

- Fitness, gardening, movies
video games, and wine

Meet the TA



Name

- Kevin Dublin

Current Job

- Author and Editor

Qualifications

- Django Enthusiast

Hobbies

- Poetry, Prose, Scripts, and Code

Meet Your Backend Team

Bryce



Steven



Connie



Jay



Key



Elias



Caleb



Gabriel



Roadmap - Intro to Backend Timeline



Tamed the Snake

Learn the ways of Python:

- Discovered Data Structures
- Finessed Functions
- Created Classes
- Animated Algorithms

Tangoed with Django

Dove into Django:

- Manipulated Models
- Verified Views
- Transformed Templates
- Activated APIs



Conquered the DB

Developed a Database:

- Qualified Queries
- Analyzed Aggregations
- Jostled Joins
- Dreamed Up the Schema



The Mission



Minimum Requirements:

- Pick a topic
- Create a Database Design
- Construct the Database
- Choose a Path
- Program logic for CRUD (Create, Read, Update, Delete)
- Engineer the Final Product

The Path



The Path - Admin



Admin Path:

- Utilize and Extend Django Admin
- Implement CRUD using built in methods
- Expand on base layout with Class Properties
- Create custom functions
- Master basic authentication
- Use internal routing for easy scaffolding

The Path - MVT (Monolithic)



Model View Template Path:

- Utilize Django's full architecture
- Implement CRUD using custom methods and inherited properties
- Create performant query sets to interact with database
- Design a common theme and unique look
- Master the Django Way
- Customize routing using HTML Web protocols (GET, POST, PUT, etc)

The Path - API



API Path:

- Utilize a mix of Django and a Javascript framework (Vue, React, Angular)
- Given the choice to couple or decouple
- Implement CRUD using API calls (preferably with Django Rest Framework)
- Create performant view sets to interact with database via the API
- Design a responsive and engaging frontend using the JS Framework
- Master the Django API creation and deployment
- Customize routing using a JS router (SPA)

Presentation Time



Presentation - Bryce



Student

- Bryce Jackson

App

- Library Checkout System

Path

- Admin + API

Presentation - Steven



Student

- Steven Duran

App

- Board Game Tracker

Path

- Admin + API

Presentation - Connie



Student

- Connie Lai

App

- Django Shop

Path

- Admin + MVT + API

Presentation - Jay



Student

- Jay Dampitan

App

- Jay's Blog

Path

- Admin + MVT + API

Presentation - Key



Student

- Key Doby

App

- Butler's Earthseed

Path

- Admin + MVT

Presentation - Elias



Student

- Elias Gutierrez

App

- Foodtruck Management

Path

- Admin + API

Presentation - Caleb



Student

- Caleb Harris

App

- Gym Management

Path

- Admin + MVT

Presentation - Gabriel



Student

- Gabriel Rios

App

- Tenant Management

Path

- Admin + MVT

Thank you!

