Foundations Capstone Project

Overview

What is the capstone?

As your final project of Foundations, you'll be building an app from start to finish!

When does it need to be complete?

This unit's labs are designed to be shorter so that you'll have work time for your capstone project. You'll have time both this week and at the start of next week to work on this project.

You should aim to be done with your project by Wednesday of **next week**.

What will we do with these projects?

You'll be making a demo video and presenting them to your cohort and Devmountain staff. They can also go in your portfolio. We'll cover more details about all of that next week.

Details

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Today you'll start building a solo project! Let's talk about what you could build:

Ideas:

- *Choose a previous lab exercise from Foundations to build on.*

- *Use a previous lab as inspiration and create a similar project.*

- *Come up with your own idea!*

Requirements Overview

We'll get into the specifics, but the base requirements are that your project has:

- Planning documentation

- An interactive front end (inputs, buttons, etc.)

- At least 3 main features

- Custom styling

- A connection to a server and makes requests from the front end (express and axios)

- 2-3 minute presentation

Building Your Project

There are more instructions in the lab exercise, but you should start out with some planning before you begin coding.

Build out the core features of your app and then if you have time, add in more.

You'll want to be done by next Wednesday so that you can record your demo before Friday.

Examples

#1: Magic 8 Ball. Your 3 features might be:

- *Users can enter questions*
- *Users get randomized answers to their questions*
- *Users can save responses*

Examples

#2: Trip List. Your 3 features might be:

- *User can add a location to a "Want to Visit" or a "Visited" list*

- *User can delete items from their lists*

- *User can view one or both lists*

Examples

#3: Calculator. Your 3 features might be:

- *User can add, subtract, multiply, or divide numbers*

- *User can continue calculation on a given answer (press 2 + 3 = and then can do * 10 to the 5 that's returned)*

- *User can save amounts (for budgeting or figuring out complex problems)*

Grading

Process

- Staff will grade both your code and your presentation according to a checklist.

- All the criteria are included on one checklist and you will receive a single grade for the whole project.

We will talk about the checklist details in a couple of slides.

Points

- Each item is worth 5 points

- There are 125 points possible, but the grade is out of 100, so you could score extra credit points

- You will need to score at least 70 points to pass, meaning that you'll need to check off 14 items minimum

Checklist

Overview

Remember: you do not have to include every single
item! 14 is the minimum.

The **required** items are starred.

Planning

- project includes a wireframe for each view
- project includes a list of MVP features *
- project includes a data model

MVP

- app has at least 3 main features *

- front end makes a request to the server and handles the response *

- front end is interactive *

- app has custom styling *

Front End

- app has at least 5 semantic tags *

- app includes 1 view *

- app includes 1+ additional view(s)

- styling includes flexbox

- at least 1 view is responsive

- styling includes animations

Server

- app includes a GET endpoint and handler function *

- app includes a POST endpoint and handler function *

- app includes a PUT endpoint and handler function

- app includes a DELETE endpoint and handler function

- app utilizes Sequelize

- project includes at least 1 controller file

Database

- project includes a seed file or function

- app uses 1 table

- app uses 1+ additional tables

- app uses a foreign key and join

Presentation

- discusses project purpose and demonstrates MVP *
- does not discuss broken/unimplemented features
- recording is between 2-3 minutes

Summary

Summary

- You have about a week and a half to work on this.

- You need to plan before you code.

- Your app should have at least 3 main features and a styled, interactive front end that's connected to a back end.

- You need to score at least 70 points to pass.

- You will be presenting these projects at the end of Foundations.

The End