Foundations Capstone Project

Overview

Today you'll start building a solo project! You'll have about the next week and a half to work on this. The time is roughly equivalent to 6 lab exercises, so keep that in mind when you're figuring out the scope of your project.

Basic Requirements

- Planning documentation
- Needs to have an interactive front end (inputs, buttons, etc.)
- Should have at least 3 main features
- Includes styling
- Connects to a server and makes requests from the front end (express and axios)

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

Instructions

Planning

It's difficult to plan a software project the first few times. Your plans will not be perfect, and that's okay. Try to make your plan as comprehensive as you can – it will help you throughout the process. And don't be afraid to update your plan as you go.

- **1.** Start out brainstorming look through projects we've done and read through the ideas at the bottom of this page.
- 2. List out your 3+ MVP (minimum viable product) features. Name your project.
- **3.** Wireframe your page(s).
- **4.** Make a to do list for coding. It's okay if this isn't comprehensive, just try to give yourself a little structure.
- **5.** When you have your features, app name, wireframe(s), and to do list, pass off your plan with a staff member.
- 6. Make adjustments if needed.
- **7.** Set up a folder on your computer and a remote repo on GitHub. Connect them. Upload your completed planning documentation to your repo.

Coding

You can choose how you want to do this, but here's a suggested work flow if you're feeling stuck:

- 1. Start by creating HTML, CSS, and JS files and linking them together for the front end.
- 2. Set up a basic server for your back end.
- 3. Build the HTML for your first feature.
- **4.** Write the JavaScript for your first feature (front and back).
- **5.** Add in CSS for that section of the page.
- **6.** Repeat the process for your other 2 features.
- 7. Polish the layout and styling of the page.
- 8. Add any additional features.

Ideas & Examples

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!

Examples

Magic 8 Ball. Your 3 features might be:

- Users can enter questions
- Users get randomized answers to their questions
- Users can save responses (until you refresh the page)

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

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)

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