



## Software Engineering Career Track

### Capstone Two: Step Four - Coding User Flows

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You're about to tackle step four of your first capstone project. To review the steps of the project, [refer to this document](#).

#### Coding User Flows (25-30 Hours)

Now go make your website!

This is your time to apply everything you've been learning and develop your engineering and problem-solving mindset. Be creative and **persistent**! This may be difficult at first but will pay off in the long run. Start simple and add complexity slowly. What matters right now is that your site works, not that it is sleeky styled. You can work on bells and whistles in the next step.

**While we do not have specific instructions for you to follow, here are some items to consider as you build your website:**

1. First, set up your database and fetch the API data for it.
2. Next, set up your back end. You'll need to configure the environmental variables on your framework of choice for development.
3. Import the libraries you need into your codebase in order for it to work. This could include setting up Node-pg, importing Redux, or connecting SQLAlchemy.
4. Do whatever backend configuration you'll need in order to have a responsive site.
5. Now, you can begin to create dynamic Front-end pages.

6. Think about the bigger picture of how a user is going to experience your site. Imagine their user experience. How will they go from the landing page, through login, to the interactive portions of your site fully take advantage of its features? Your goal should be to create a smooth and simple user experience.
7. Consider how you're displaying the data from your API, and how a user will interact with it. How are they going to add in more data? Think about the edge cases where a user might encounter an issue with your site and write code to avoid these situations.
8. Don't forget to test your work! Make sure that you include tests, either in a separate file or in a folder, and that you have tests that work in production. Your project should contain extensive unit tests and integration testing.
  - a. When a possible employer is evaluating your portfolio, they will be looking for documentation of this kind of testing.
9. You'll be done with this phase of the project when you have a simple and functional website that achieves the essential and basic functionality of what you have laid out in your proposal.

### **Submitting Your Work**

1. When you are ready, submit a link to your GitHub to your mentor. Your mentor will review your work, but does not need to give you the approval to start working on the next step.
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