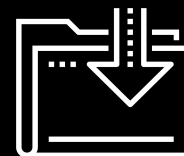


# Web Development Boot Camp

## Unit 23



# Project Requirements

# Project 3: Coding Requirements

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Project 3 must meet the following coding requirements:



Use React for the front end.



Use GraphQL with a Node.js and Express.js server.



Use MongoDB and the Mongoose ODM (or MySQL and Sequelize) for the database.



Must Queries and Mutations to create, read, update, and delete data.



Use a polished UI.



Be deployed using Heroku (with data).



Be interactive (i.e., accept and respond to user input).



Include authentication (JWT).

# Project 3: Additional Requirements

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Project 3 must meet the following additional requirements:



Protect sensitive API key information on the server using environmental variables.



Include a high-quality README (with unique name, description, technologies used, screenshot, and link to deployed application).



Have a clean repository that meets quality coding standards.



Look professional and be mobile-friendly.

# CSS Styling (Optional)

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Instead of using a CSS library like Bootstrap, consider one of the following suggestions:



Look into the concept of CSS-in-JS, which abstracts CSS to the component level. (Popular libraries include styled-components and Emotion).



Try using a component library, such as Semantic UI, Chakra UI, Ant Design, or React Bootstrap.



Create all the CSS for your application just using CSS modules. (see Create React App)

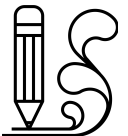


Regardless of which of these options you choose—it must look professional and be mobile-friendly.

## Payment Platform (Optional)

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Consider integrating the Stripe payment platform into your project. If you don't create an e-commerce application, you could use Stripe to set up your site to accept charitable donations.



# Bonus

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Although this is not a requirement for your project, see if you can also implement functionality to meet the following minimum requirements of a PWA:



Uses a web manifest.



Uses a service worker for offline functionality.



Is installable.

Fulfilling all three requirements to turn your app into a PWA will add 10 points to your grade!



Hint: How can the Create React App docs provide a simplified guide to achieving this?

# Presentations



# Presentation Requirements

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Your formal, 10-minute presentation must include the following:



Your application's overall concept



The motivation for your application's development



Your design process



Technologies used (and a brief description of how they work)



A demonstration of the application's functionality



Directions for future development



Sometimes, talking intelligently about tech > doing tech.

# Metrics

# Metrics

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Project 3 will be assessed based on the following:



Technical acceptance criteria: 25%



Concept: 10%



Deployment: 20%



Repository quality: 10%



Application quality: 15%



Presentation: 10%



Collaboration: 10%