

Software Development

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# Project 2

Module 15



# Project Requirements

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## Coding Requirements:



Must use **Node.js** and **Express.js** to create a RESTful API



Must use **React** for the front end



Must use **PostgreSQL** and the **Sequelize ORM** for the database



Must have both **GET** and **POST** routes for retrieving and adding new data



Must use at least **two server-side APIs**



Must have a folder structure that follows the **separation of concerns** design principle



Must include authentication using JWT



Must protect **API keys** and sensitive information with environment variables

# Project 2

## Additional Requirements:



Must be deployed using Render (with data)



Must have a polished UI



Must be responsive



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



Must meet good-quality coding standards (file structure, best practices, etc.)



Must have a professional README (unique name, description, link to the deployed app)



# Presentations

# Presentation Requirements

Your formal, 10-minute presentation must include:

- ✓ 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

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Project 2 will be assessed on the following:



Concept



Design (Application Quality)



Functionality (Technical Acceptance Criteria and Deployment)



Repository Quality



Presentation



Collaboration





Group Members



# Group Challenge: Project Brainstorming

Work with your group to identify ideas, research APIs, and create project designs.

You will submit your initial project proposals by the end of class today.

**Suggested Time:**

60 Minutes