

RECIPE WEB APPLICATION

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EXECUTIVE SUMMARY

OBJECTIVE

Build a database driven website. This website will be powered either off of an external API or an API the developer builds themselves. The website will incorporate all of the full stack skills the developer has developed. The developer should implement unique features to the website to make it stand out.

GOALS

- build a full stack web application
- select an app idea that will allow me to showcase full stack skills
- · define app features and functionality
- decide on building a custom API or implementing an already existing API
- discover APIs and data I may implement for app features and data

THE PROPOSED APP IDEA

I will build a recipe website. I will define my own API and I will use APIs to program additional features like sharing recipes and voice assistance.

PROJECT OUTLINE

The Capstone Project steps are listed below. Each step contains a link with detailed instructions:

- Step One: Initial Project Ideas
 - Propose up to 3 ideas to your mentor and slack community, and explore potential APIs.
- Step Two: Project Proposal
 - Write a proposal for the app you want to build to help your mentor further understand your idea.
- Step Three: Source Your Data
 - Define the app's database schema and its data source after your mentor approves of your idea.
- Step Four: Coding User Flows
 - After figuring out what's going to be built, write the code to build it and think about the user's experience.
- Step Five: Polishing Your Application
 - After programming the core functionality, enhance the UI and styling, and implement bells and whistles.
- Step Six: Documentation and Submission
 - Create a README.md, organize the GitHub repo, and submit the finished project.

PROPOSAL INDEX

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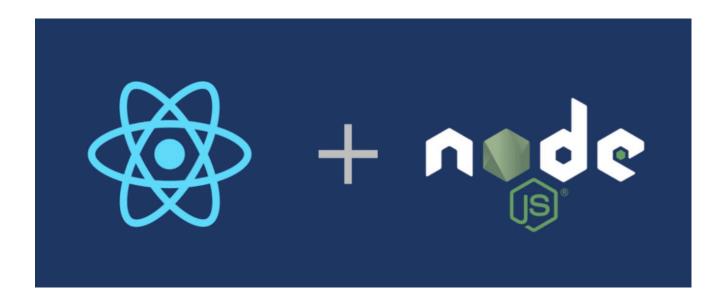
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THE STACK

TECH STACK

I will program the backend of my recipe web app with the recommended language: Node. I will program with Node.js and Express. I selected Node.js over Python so I may utilize a sql driver instead of an ORM to make queries to the database. This will leave no abstract layers within queries from my app to the database. Using Node's Express framework, I will be able to parameterize user input before I make database queries and this will allow me to protect my database data from bad actors.

I will program the frontend of my recipe web app with the recommended language: React. React.js will allow me to make a modular frontend app for all the backend routes. React.js will allow me to access, manipulate, and save backend data, and create a visual structure for it.



THE STACKS I WILL FOCUS ON

I will focus on the full stack with equal focus. I want to display my skills for backend and frontend stacks.

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THF APP

THE TYPE OF APP THIS WILL BE

The app will be a recipe/cooking web application. Users may use it through their web browser on their computer. It will not be responsive for mobile devices either. Mobile responsiveness is a feature that may be added after the app is deployed.

WHAT THE RECIPE APP WILL ACHIEVE

The recipe app will allow users to search, manipulate, track, organize, and try recipes. The goal is to build a recipe app that will allow users to find and try recipes they like and to have a supportive community. The recipe app will connect users to thousands of recipes, and maybe a community or network that will support cooking.

THE DATA I PLAN ON USING

I will create my own API. For the recipe data, I will use a recipe dataset. I will import the dataset into my relational database. My recipe app will incorporate a Twilio API to allow users to share recipes, and a voice assistance api to allow users to voice control recipes while they cook.



USER DEMOGRAPHICS

HOME COOK

- ages 25-50
- eat home cooked meals 6 days/week
- food shop and cook
- · have efficient cooking skills

WEEKEND COOK

- ages 35-60
- have home get togethers on the weekends
- like trying different recipes
- · have efficient cooking skills

PROFESSIONAL COOK

- ages 35-60
- cook for a living
- like viewing recipes for inspiration
- cook for family and friend get togethers

HEALTHY COOK

- ages 20-60
- cook 7 days/week
- exercise every daily
- need recipes to fit their specific diet and nutritional needs

PROJECT APPROACH

MY APPROACH TO BUILDING MY PROJECT

DATABASE SCHEMA

My database schema will be a normalized structure. I plan to make the following tables: users, recipes, favorite recipes, saved recipes, disliked recipes, tried recipes, recipe comments, recipe reviews.

API ISSUES

I will not run into problems with my API. When using already created APIs like Yelp API and Spotify API, issues exist. The biggest issue I have for these APIs is the API not having important data like links to restaurant menus or mp4s. They usually don't have important data or features and this creates an unwanted app experience.

SENSITIVE INFORMATION

My app will have passwords, tokens, and API keys.

APP FUNCTIONALITY

Register, sign in, sign out, delete account, search recipes, save recipes, share recipes, rate recipes, write reviews for recipes, favorite recipes, like recipes, dislike recipes, review recipes, keep track of tried recipes, keep track of liked recipes, write notes for each recipe, create recipe lists for certain occasions and events, and voice control recipes.

USER FLOW

- User registers or signs in -> home page -> user searches recipes -> user saves recipe
- User creates event -> user saves recipes to it
- User dislikes recipe -> recipe is added to disliked recipes list
- User finds recipe -> user shares recipe
- User selects recipe -> user starts voice control to try recipe

WHAT MAKES MY APP MORE THAN CRUD APP

Authentication/authorization, protected routes, recipe search filters, sharing recipes, data organization, pre filled drop down lists, custom messages, and voice control.