BUDGETBITES

bites under budget

Johnny, Donny, Ima, Alex, Vanessa, Owen

VISION STATEMENT

For broke, college students, who have no time and struggle to make easy, quick meals...

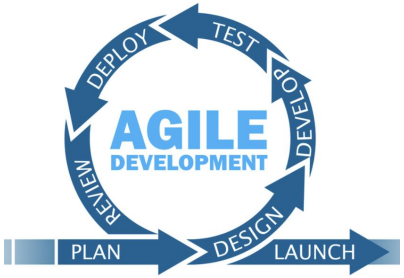
BudgetBites is our website that generates recipes based on the ingredients, time, and preferences that students have.

Unlike other competitive recipe websites, our product ensures students *can* make a meal and promotes maintaining a healthier lifestyle.

METHODOLOGIES

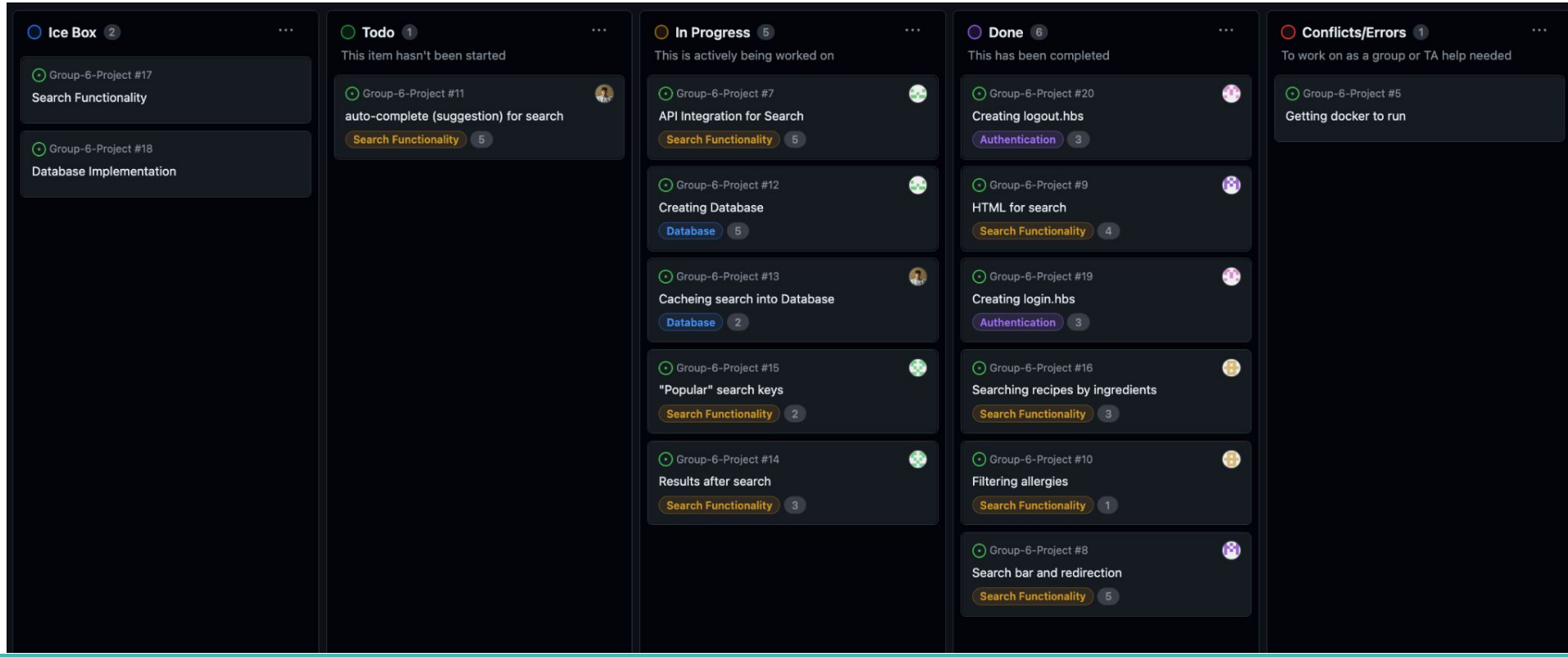
- **Pair Programming - 3**
  - *Purpose* : This collaborative approach allowed us to enhance code quality, expedite issue resolution, and cultivate a culture of shared learning. While outcomes varied depending on task complexity and team dynamics, peer programming consistently proved beneficial, fostering both effective teamwork and high-quality code.

PROJECT TRACKER



- **Agile Methodology - 4**
  - *Purpose* : Facilitate collaborative development of the recipe website by breaking down tasks into manageable chunks, allowing for frequent feedback and iteration, and ultimately delivering a high-quality product that meets the evolving needs of both users and stakeholders.
- **Scrum Meetings - 5**
  - *Purpose* : foster transparency, collaboration, and alignment among team members by providing regular opportunities to discuss progress, identify obstacles, and plan the next steps
- **Github Project Tracker - 2**
  - *Purpose* : serves as a centralized platform for organizing tasks, tracking progress, and facilitating collaboration among team members, enabling transparent communication, effective task management, and timely delivery of project milestones.

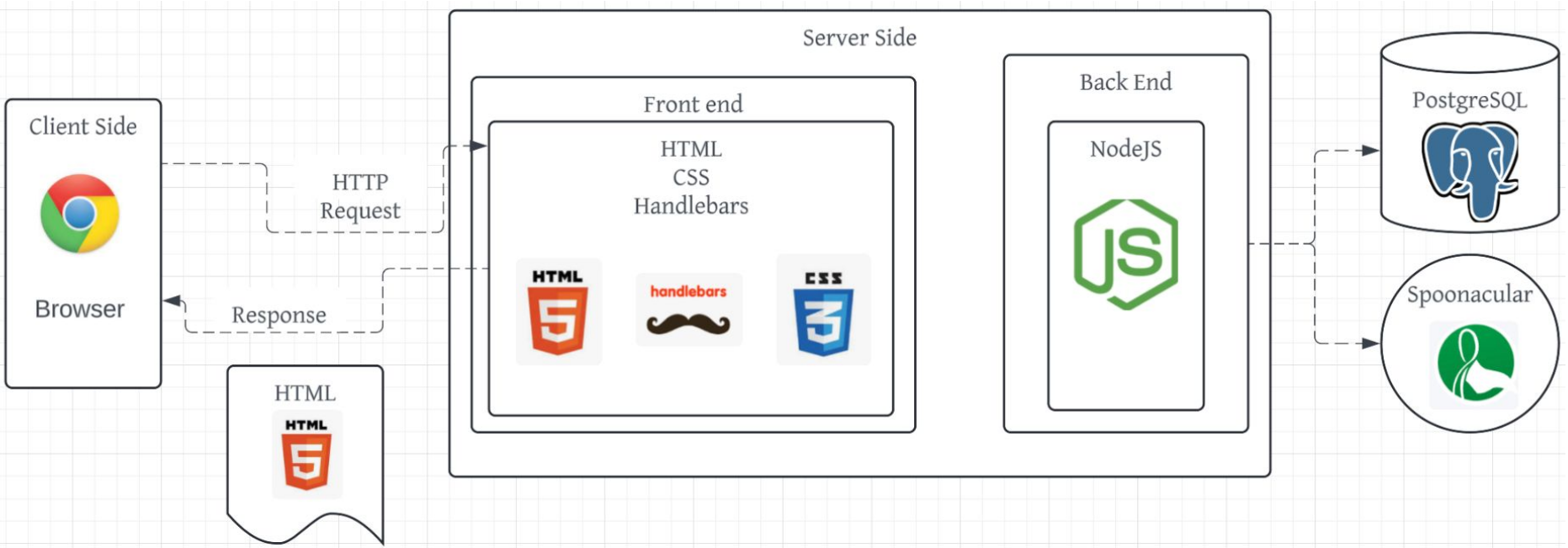
WEEKLY PROGRESSIONS



PROJECT DEMO

https://youtu.be/t4K5Pf_Gfyk

ARCHITECTURE DIAGRAM



VCS

- **Github - 5**
  - *Purpose* : GitHub serves as a platform for developers to collaborate on code, manage projects, and build software together. It's like a virtual workspace where teams can easily track changes, discuss ideas, and ensure their projects move forward smoothly, from planning to deployment.

DATABASE

- **PostgreSQL - 4**
  - *Purpose* : PostgreSQL is a powerful open-source relational database management system (RDBMS) designed for storing, managing, and retrieving data efficiently. It offers advanced features for data integrity, scalability, and extensibility, making it a reliable choice for a wide range of applications, from small projects to large-scale enterprise solutions.
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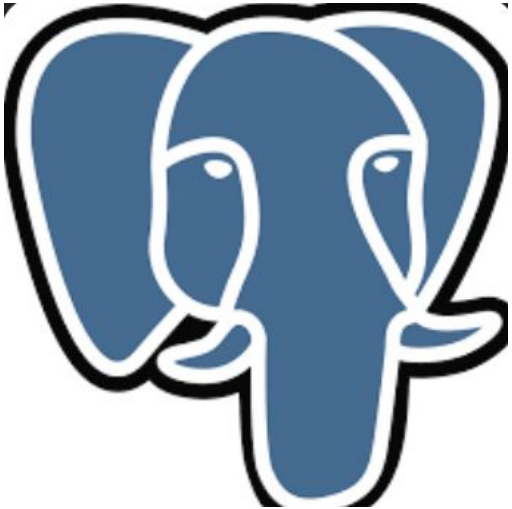

UI TOOLS

- **Handlebars & HTML - 4**
  - *Purpose* : provide a templating engine for creating dynamic HTML content with JavaScript, enabling developers to generate reusable and maintainable HTML templates by combining data with markup.
- **CSS - 5**
  - *Purpose* : TCSS styles and formats HTML documents, giving developers control over layout, appearance, and presentation to enhance the visual aesthetics and user experience..
- **JS - 4**
  - *Purpose* : JavaScript manipulate HTML elements, manages user interactions, performs calculations, and communicates with servers, enabling complex web application development and enhancing user experience.
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APPLICATION SERVER

- **NodeJS - 3.5**
  - *Purpose* : handle server-side logic, manage database interactions, and facilitate dynamic content generation to provide users with features such as recipe search, user authentication, and data storage.

DEPLOYMENT ENVIRONMENT

- **Microsoft Azure - 3.14**
  - *Purpose* : provide a cloud computing platform for hosting the website, enabling scalability, reliability, and accessibility, as well as offering a range of services such as virtual machines, databases, storage solutions, and networking capabilities to support the website's infrastructure and operations.

EXTERNAL API

- **Spoonacular - 4**
  - *Purpose* : provide developers with access to extensive food and recipe-related data, enabling the creation of innovative applications and services for recipe search, meal planning, nutrition analysis, and ingredient substitution, enhancing the culinary experience for users.

TESTING TOOLS

- **Chai - 4**
  - *Purpose* : facilitate automated testing of backend and frontend code, ensuring the functionality and reliability of the website's features, such as user authentication, recipe search, and database interactions, by allowing developers to write clear and expressive assertions and test cases.

- **Mocha - 4**
  - *Purpose* : provide a flexible and feature-rich framework for writing and executing automated tests, enabling developers to thoroughly verify the functionality, performance, and stability of both backend and frontend code, including features like user authentication, recipe search, and database interactions, thereby ensuring the overall quality and reliability of the website.

- **UAT - 3**
  - *Purpose* : validate that the website meets the requirements and expectations of its intended users. It involves executing tests from an end-user perspective to ensure that all functionalities work as intended, the user interface is intuitive and user-friendly, and the website performs well under realistic usage scenarios, ultimately ensuring user satisfaction and usability.

CHALLENGES

- Could not get docker running [YAML files]
- Not having enough tokens for testing and final presentation
- Working on API routes
- Daily limits on searches
- Hard time figuring out if allergens should go along with each recipes
- When ingredients are search up, description shows up as "undefined"
- Spoonacular is not displaying instructions
- When ingredients are search up, description shows up as "undefined"
- Still need to work on the CSS page

FUTURE SCOPE AND ENHANCEMENTS

Meal Planning and Grocery List Generation: Integrate a meal planning feature where users can schedule their meals for the week. Functionality to generate a grocery list based on the ingredients needed for the selected recipes.

Community Interaction and User-Generated Content: Implement features that allow users to interact with each other and contribute their own recipes, tips, and tricks. Friends and social aspect.

Integration with Nutritional Data and Health Tracking: Partner with nutrition databases or APIs to provide users with detailed nutritional information for each recipe. Additionally, incorporate features for users to track their dietary intake, set health goals, and monitor their progress over time.

THANK YOU

QUESTIONS AND ANSWERS