For my project I want to make an application for looking up recipes based on ingredients the user has on hand. Here's a line breakdown of design and such:

## Components:

#### 1. Web Page:

• Single Page: The entire application will be contained within a single web page.

#### 2. User Interface:

- Design a user-friendly interface with a search bar and a results section to display the found recipes.
- Use a CSS framework like Bootstrap to create a professional-looking and responsive UI.

# 3. JavaScript:

- Implement client-side JavaScript using ES6 class style.
- Encapsulate the functionality in a recipe finder class.
- Use AJAX GET request to fetch recipe data from a recipe API (e.g., Spoonacular API) based on user input.
- Process the API response and dynamically update the UI with the retrieved recipe information.

## 4. Additional JS Technologies:

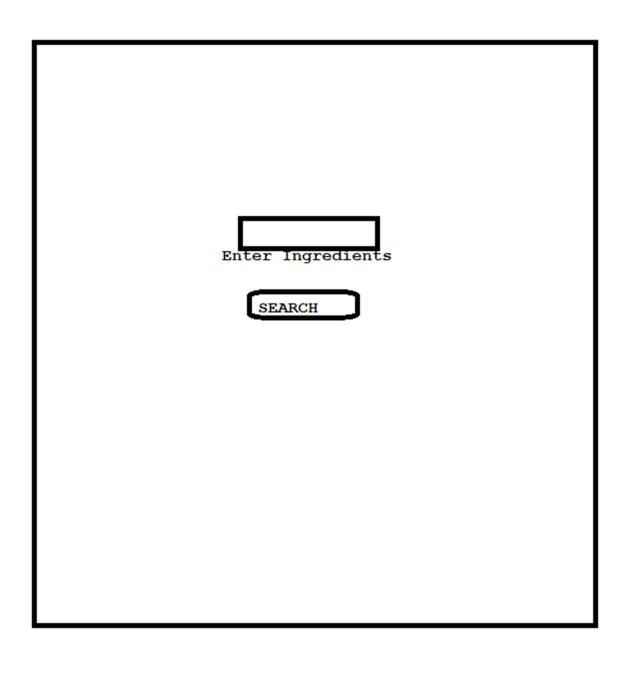
- Utilize local storage to store the user's favorite recipes or search history.
- Implement HTML canvas or chart.js to display visual representations of recipe data, such as nutrition information or serving size variations.

## 5. Hosting:

- Host the application on citstudent.lanecc.net.
- Transpile the production code to a JavaScript version compatible with modern browsers.

This will keep things clean and simple for the user while offering them a useful interface for searching up recipes with their existing items.

See below for a very crude rough design of the page:



Recipe Displayed	Recipe Nutrition Facts Displayed