

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:

Enter Ingredients

Recipe Displayed

Recipe Nutrition
Facts Displayed