1.Introduction

* **Project title :** Cookbook: Your virtual kitchen assistant
* **Team members:**

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2.**Project Overview**:

* **Purpose**:It provides users with an easy way to browse, search, and manage recipes.
* **Features**:It uses can search more receipe in the home page,ingredients, meal categories, favorites, and user submissions.

3.**Architecture**

* **Component Structure** : It looks like Recipe Card, Recipe Detail Page, Search Bar, Category List, Favorites and subscribing.
* **State management:** The state management is primarily handled at the component level using React’s built-in hooks.

Local State: The useState hook is used to manage local component state, such as the recipe data (recipie) in the Recipie.jsx component.

* **Routing** : It will display home page, popular categories of food, favourites and trending categories.

4.**Setup Instructions**

• **Prerequisites**:

* + Components
  + Images
  + Styles
  + App.css
  + App.js
  + App.test.js
  + Index.css
  + Index.js
  + Logo.svg
  + reportWebVitals.js
  + setup test.js

**Installation Steps:**

# Clone the repository git clone

# Install client dependencies cd Client npm install

# Install server dependencies cd

../server npm install

5.**Folder Structure**

SB-Works/

|-- client/

# React frontend

|\_\_components/

|\_\_ CategoriesHome.jsx/

|\_\_ Footer.jsx/

|\_\_ Hero.jsx/

|\_\_ Navbar.jsx/

|\_\_ NewsLetter.jsx/

|\_\_ Recipie.jsx/

|\_\_ About.css/

6.**Running the Application**

• **Frontend**:

Cd client

Npm start

* **Backend:**

Cd server npm

Start

• Access: Visit http://localhost:3000

7**. Component Documentation**

* **Key Components**: It will shows Recipe Card, Recipe Details, Category List, Search Bar, favourite lists and subscription bar
* **Reusable Components:** In each recipe it will give ingredients ,video tutorial , and how to make procedures.

8.**State management:**

* **Global state:**The global state management library is not used. The application relies on passing data as props between parent and child components where necessary, or using local storage for persistent data.
* **Local state:** the local state is managed using React’s built-in useState hook. This approach is used to handle data that is specific to a single component and doesn’t need to be shared across the entire application

Example of use: Recipie.jsx:The usestate hook is used to store the recipe data after it is fetched from the API.

9.**User Interface:**

The navigation bar is placed at the top of the application and provides quick access

1.Home page: It displays variety categories of food, Most popular categories and trending categories recipe lists

2.Search Bar: A text box with a “Search” button to find recipes.

10**. Styling:**

**CSS framework /libraries:** The application's styling is handled using standard CSS, organized in separate files for each component or page. As seen in the provided code snippets (CategoryPage.css, Recipie.css, CategoriesHome.css), each major component has a corresponding CSS file.

**Theme**:The application uses a simple, clean theme with a focus on readability and content presentation. This is suggested by the file structure which includes CSS files for specific pages, indicating that styling is component-based.

11.**Testing**

**Testing Strategy:** The project does not currently implement an automated testing strategy. All testing is performed manually through the application’s user interface to verify functionality and behavior.

**Test Coverage:** Since there are no automated tests, test coverage is 0%.

12. **Demo and screen shot**

https://drive.google.com/file/d/1kbpV7km6sHr2a4JMu75oqOTjuzRCPma9/view?usp=drivesdk

13.**Known Issues:**

At present, the cookbook application is running smoothly without any identified problems.

All tested features such as recipe display, favorites, and shopping list are working as expected.

14.**Future enchantments:**

Add offline support so users can access recipes without internet.

Improve search and filters (by ingredient, cooking time, dietary type).

Enable user accounts for saving favorites and syncing across devices.

Add a meal planner with calendar integration.

Provide step-by-step cooking videos along with recipes.