Frontend development with Reaction.js project documentation format

1. Project Title

CookBook Web Application – Frontend Development using React.js

Team members: Gopika (coding developer)

:Thirisha( document developer)

:Ramya(uploder)

:Ajay(video editing)

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2. Introduction

The CookBook web application is a frontend project built using React.js. It demonstrates how interactive features can be created in modern web applications. The app allows users to search for recipes, rate them using a star system, and switch between light and dark themes. This project highlights the use of React functional components and hooks for state management.

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3. Objectives

* To design a simple, interactive recipe application using React.js.
* To implement key UI features: search, rating, and theme toggle.
* To prepare documentation and screenshots for academic/project submission.

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4. System Requirements

Technology: React.js

* Editor/IDE: StackBlitz (online), VS Code (optional)
* Browser: Chrome / Edge / Firefox
* Language: JavaScript (ES6), JSX

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5. Features Implemented

🔹 1. Recipe Search

* Users can type into a search box to filter recipes dynamically.
* Example: Typing “Chicken” shows only “Chicken Curry.”

🔹 2. Recipe Rating

* Interactive ⭐⭐⭐⭐⭐ star rating system.
* Updates dynamically when a user clicks on stars.

🔹 3. Theme Toggle

* Switch between Light Mode (☀️) and Dark Mode (🌙).
* Smooth UI transition using inline CSS and React state.

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6. Architecture (Frontend Only)

* The application is built with React functional components.
* useState hook manages dynamic states such as search input, rating value, and theme mode.
* Components are combined inside App.js to render a single-page demo.8. Output (Screenshots for Documentation)

1. Recipe Search: Filtering recipes like “Chicken Curry.”

2. Recipe Rating: User selects stars ⭐⭐⭐⭐.

3. Theme Toggle: Switch between light/dark themes.

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9. Conclusion

This project demonstrates how React.js can be used to build an interactive, user-friendly frontend application. The CookBook demo app showcases multiple features in a single page and can be extended with backend integration and databases in the future.