

# Frontend Development with React.js

## Project Documentation format

### 1. Introduction

- **Project Title:** Cryptoverse- A CryptoCurrency dashboard
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### 2. Project Overview

- **Purpose:** Briefly describe the purpose and goals of the project.
- **Features:** Highlight the key features and functionalities of the frontend.

### 3. Architecture

- **Component Structure:** Outline the structure of major React components and how they interact.
- **State Management:** Describe the state management approach used (e.g., Context API, Redux).
- **Routing:** Explain the routing structure if using react-router or another routing library.

### 4. Setup Instructions

- **Prerequisites:** List software dependencies (e.g., Node.js).
- **Installation:** Provide a step-by-step guide to clone the repository, install dependencies, and configure environment variables.

### 5. Folder Structure

- **Client:** Describe the organization of the React application, including folders like components, pages, assets, etc.
- **Utilities:** Explain any helper functions, utility classes, or custom hooks used in the project.

### 6. Running the Application

- Provide commands to start the frontend server locally.
  - **Frontend:** npm start in the client directory.

### 7. Component Documentation

- **Key Components:** Document major components, their purpose, and any props they receive.
- **Reusable Components:** Detail any reusable components and their configurations.

### 8. State Management

- **Global State:** Describe global state management and how state flows across the application.
- **Local State:** Explain the handling of local states within components.

### 9. User Interface

- Provide screenshots or GIFs showcasing different UI features, such as pages, forms, or interactions.

### 10. Styling

- **CSS Frameworks/Libraries:** Describe any CSS frameworks, libraries, or pre-processors (e.g., Sass, Styled-Components) used.
- **Theming:** Explain if theming or custom design systems are implemented.

## 11. Testing

- **Testing Strategy:** Describe the testing approach for components, including unit, integration, and end-to-end testing (e.g., using Jest, React Testing Library).
- **Code Coverage:** Explain any tools or techniques used for ensuring adequate test coverage.

## 12. Screenshots or Demo

- Provide screenshots or a link to a demo showcasing the application's features and design.

## 13. Known Issues

- Document any known bugs or issues that users or developers should be aware of.

## 14. Future Enhancements

- Outline potential future features or improvements, such as new components, animations, or enhanced styling.