1. Introduction

- Project Title: Cryptocurrency Tracker
- Team Members:
 - [Member Name :PRASANNA KUMAR SK] Role Team lead
 - [Member Name 2:BALAJI D] Role Team member
 - [Member Name 3:JESWIN PRAISON S] Role Team member
 - [Member Name 4:KAMALESHWARAN] Role Team member
 - [Member Name 5:SYED NIZAMUDDIN] Role Team member

2. Project Overview

- Purpose:
 - The purpose of this project is to create a user-friendly application that allows users to track cryptocurrency prices and trends in real-time.
- Features:
 - Real-time price updates
 - Historical data visualization
 - User authentication
 - Portfolio management

3. Architecture

- Component Structure:
 - The application is structured into several major components including Home, CryptoDetails, Cryptocurrencies, and LineChart.
- State Management:
 - The project uses Redux for global state management to handle the application state efficiently.
- Routing:

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 React Router is used for navigation between different pages of the application.

4. Setup Instructions

- Prerequisites:
 - 1. Node.js
 - 2. npm (Node Package Manager)
- Installation:
 - Clone the repository: git clone https://github.com/Bycks/cryptocurrency.git
 - 2. Navigate to the project directory: cd cryptocurrency
 - 3. Install dependencies: npm install
 - 4. Configure environment variables as needed.

5. Folder Structure

- Client:
 - Contains the React application organized into folders such as components, pages, and assets.
- Utilities:
 - Includes helper functions and custom hooks used throughout the project.

6. Running the Application

- Commands:
 - To start the frontend server locally, run: npm start in the client directory.

7. Component Documentation

- Key Components:
 - Home: Displays the main dashboard with cryptocurrency prices.

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- CryptoDetails: Shows detailed information about a selected cryptocurrency.
- Cryptocurrencies: Lists all available cryptocurrencies.
- LineChart: Visualizes historical price data.
- Reusable Components:
 - Loader: Displays a loading spinner while data is being fetched.
 - Navbar: Navigation bar for the application.

8. State Management

- Global State:
 - Managed using Redux, allowing for a centralized store for all application state.
- Local State:
 - Handled within individual components using React's useState hook.

9. User Interface

- Screenshot:
 - Include screenshots or GIFs showcasing different UI features, such as the homepage, cryptocurrency details page, and charts.

10. Styling

- CSS Frameworks/Libraries:
 - The project uses CSS modules for styling components.
- Theming:
 - Custom theming is implemented to provide a consistent look and feel across the application.

11. Testing

- Testing Strategy:
 - The project employs unit testing using Jest and React Testing Library to ensure component functionality.
- Code Coverage:
 - Code coverage is monitored using Jest's built-in coverage tool.

12. Screenshots or Demo

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

13. Known Issues

- Documented Issues:
 - List any known bugs or issues that users or developers should be aware of.

14. Future Enhancements

- Potential Features:
 - Integration of additional cryptocurrencies.
 - Enhanced data visualization options.
 - User notifications for price changes