CRYPTOVERSE: A CRYPTOCURRENCY DASHBOARD

Introduction:

Project Title: Cryptoverse :A Cryptocurrency Dashboard
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Project Overview:

Purpose: The project aims to provide real-time tracking, analytics, and management of cryptocurrency assets and user-friendly dashboard.

Features:
- Real-time cryptocurrency price tracking
- Trading Tools
- Cryptocurrency market cap rankings
- Interactive charts for price history
- User authentication (if applicable)
- Dark/Light theme toggling

Architecture:

- Component Structure: Navbar, Header , Search Bar, coin details, footer
- State Management: Context API for global state, use State for local state
- Routing: Implemented with React Router Dom for seamless navigation

Setup Instructions

- **Prerequisites:** Node.js, npm, Git, React.js
- **Installation:**
  1. Clone the repository
  2. Navigate to the project folder
  3. Install dependencies with npm install
  4. Start the development server with npm start
  5. Open http://localhost:5173 in a browser

Folder Structure

```
/cryptoverse-react
■■■ /src
■ ■■■ /components
■ ■■■ /pages
■ ■■■ /styles
■ ■■■ /utils
```

■■■ package.json
■■■ README.md

Running the Application

Command: npm run dev

Component Documentation

- ➢ **Key Components**: Navbar , Hero Section, Search Bar, Category Page, Exercise Page
- ➢ **Reusable Components**: Buttons, Cards

State Management

- ➢ **Global State**: Managed using React Context API
- ➢ **Local State:** Managed using use State hooks

User Interface

- ➢ Home page
- ➢ Coins detailed page

Styling
- ➢ **CSS Frameworks/Libraries**: Tailwind CSS, React Icons
- ➢ **Theming:** Light/Dark mode.

Testing

- ➢ Testing Strategy: Unit Testing with Jest, Integration Testing with Cypress
- ➢ Code Coverage: Ensured with Jest coverage reports

Screenshots or Demo

- ➢ Demo Link:
  https://drive.google.com/file/d/1Ig4U2O3j9et5LSkOykTcuni_TGjDYxw/view?usp=sharing

Known Issues

- ➢ Lack of compliance tracking for evolving crypto regulations.
- ➢ Delayed or missing price/market alerts.
- ➢ Price and market data may not always reflect real-time changes.

Future Enhancements

- ➢ AI-driven price predictions, on-chain data, sentiment analysis.
- ➢ Auto rebalancing, trading bots, multi-exchange support.
- ➢ AI-generated summaries, whale activity alerts, regulatory updates.