

CRYPTOVERSE: A CRYPTOCURRENCY DASHBOARD

Introduction:

Project Title: Cryptoverse :A Cryptocurrency Dashboard

Team Members: [Bincy Susan S, Kowaslya.H, Preethika.S, Gayathri.G, Reshma S]

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.