

Cryptoverse: A Cryptocurrency Dashboard

Introduction

Project Title: Cryptoverse : A cryptocurrency Dashboard

Team Members: [Harini.N.A - harini4016@gmail.com](mailto:harini4016@gmail.com)

Neha.S - nehasomie3@gmail.com

Kanchana.S - skanchana465@gmail.com

Gayathri.A - gg4775949@gmail.com

Deepak Raja.R - deepakhari766@gmail.com

Project Overview

Purpose: The project aims to provide real-time cryptocurrency data, including market prices, news, and historical trends, in an interactive and user-friendly dashboard.

Features:

- Real-time cryptocurrency price tracking
- Cryptocurrency market cap rankings
- Interactive charts for price history
- News aggregation for the latest crypto updates
- Search functionality for specific cryptocurrencies
- 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, useState 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: 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

DemoLink:https://drive.google.com/file/d/1OjF46pHUIfs_t3RgJpCIM1G3ZuiKLb2t/view?usp=sharing

Known Issues

- API rate limits may affect some features
- Mobile responsiveness

Future Enhancements

- Add user authentication for watchlists
- Implement price alerts via notifications