Cryptoverse - Project Documentation

Introduction

Project Title: Cryptoverse Team

Members:

- Priyadharshan

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- Logesh Priya

- Kirthika

Project Overview

Purpose:

Cryptoverse is a platform for real-time cryptocurrency data, analysis, and insights.

Features:

- Live cryptocurrency price tracking

- Historical price data visualization

- Interactive charts and graphs

- User authentication

- News updates

Architecture

Component Structure:

- Header: Navigation bar

- Dashboard: Live market data

- Crypto Details: Individual cryptocurrency info

- Portfolio: User holdings tracking

- News Section: Real-time updates

State Management:

Using Redux Toolkit

Routing:

React Router with paths: Home (/), Crypto Details (/crypto/:id), Portfolio (/portfolio), News (/news)

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Setup Instructions

Prerequisites:

- Node.js

- npm or yarn

- React.js

- Redux Toolkit

Installation:

1. Clone repository: git clone https://github.com/your-repo/cryptoverse.git

2. Install dependencies: npm install

3. Configure environment variables

Folder Structure

/cryptoverse

  --- /src

  ? ??? /components

  ? ??? /pages

  ? ??? /redux

  ? ??? /utils

  ? ??? /assets

  ??? package.json

  ??? README.md

Running the Application

To start development server:

npm start

Component Documentation

Key Components:

- CryptoCard: Cryptocurrency overview

- PriceChart: Historical price data

- NewsFeed: Crypto news

Reusable Components:

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- Button: Customizable
- Loader: Loading animations

State Management
Global State: Managed using Redux Toolkit
Local State: Managed with React?s useState

Styling
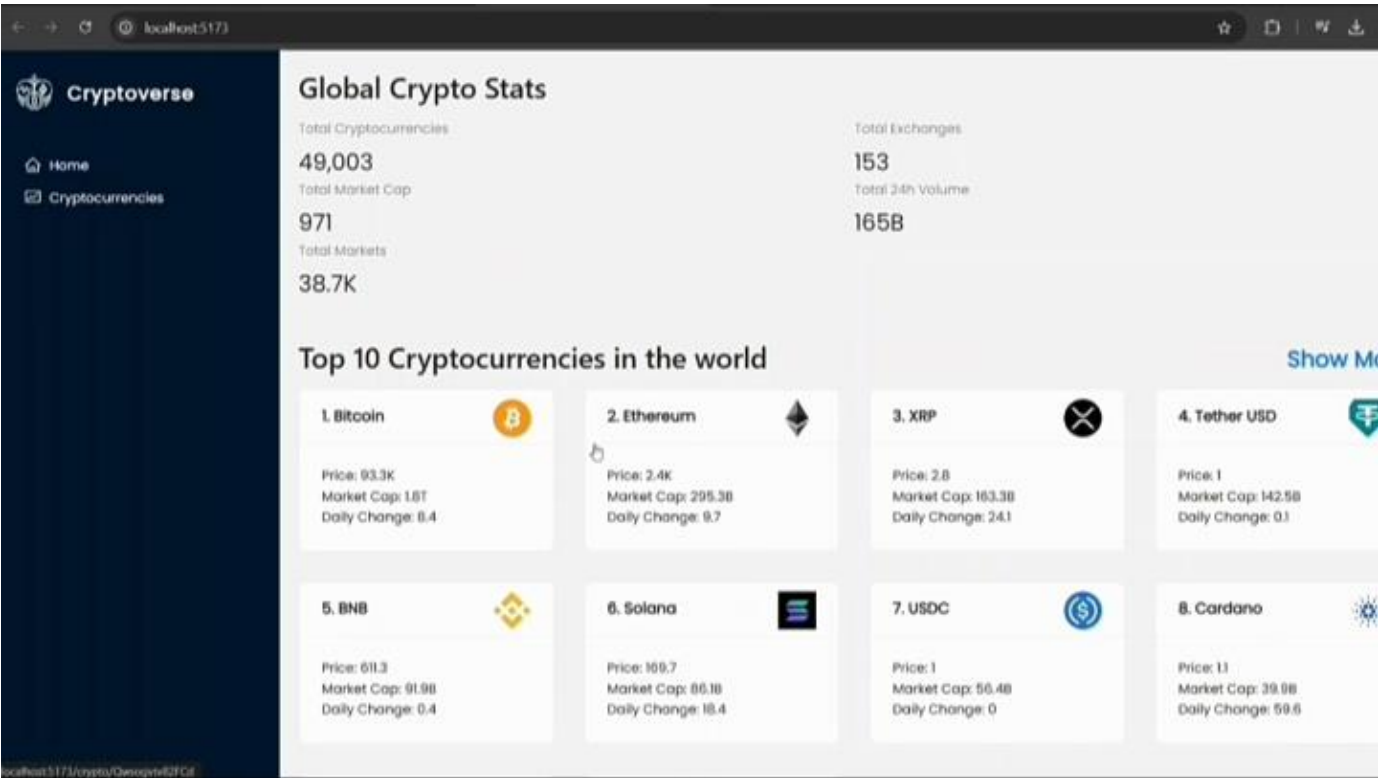Using Tailwind CSS with a custom theme for a modern UI

Testing
Testing Strategy:
- Unit Testing: Jest & React Testing Library
- Integration Testing: Cypress for E2E tests

Screenshots

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Known Issues

API rate limits may affect updates.

Dark mode support in progress.

Future Enhancements

Future Plans:

- Push notifications for price alerts

- AI-driven price predictions

- Staking feature for rewards

Github Repository link: https://github.com/Priyadharshanrepository/Crypto_verse.git

Demo video link: https://drive.google.com/file/d/1x2i5u20uCwkuFCeIznYje2bY-O3iB-%0d%0aVK/view?usp=drivesdk%20%0d%0a