

Cryptoverse - Project Documentation

Introduction

Project Title: Cryptoverse

Team Members:

- Srivathsaan K
- Sanjay Kumar S
- Nivedhini E
- Priyanka R

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)

Setup Instructions

Prerequisites:

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- 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:

- Button: Customizable
- Loader: Loading animations

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State Management

Global State: Managed using Redux Toolkit

Local State: Managed with React's useState

Styling

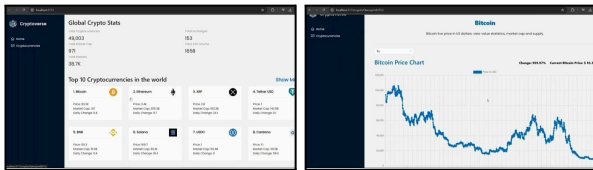
Using Tailwind CSS with a custom theme for a modern UI

Testing

Testing Strategy:

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

Screenshots and Demo



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