

# 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 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](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