



PROJECT REPORT

CRYPTOVERSE :A CRYPTOCURRENCY DASHBOARD

YEAR : 2024 – 2025

COLLEGE NAME : K.C.S KASI NADAR COLLEGE OF ARTS & SCIENCE.

CODE : UNM203

DEPARTMENT : COMPUTER SCIENCE.

PROGRAM : BCA (Bachelor of Computer Application)

SEMESTER : VI

PROJECT SUBMITTED TO: UNIVERSITY OF MADRAS / NAAN MUDALVAN

Course Name : Front End Development and Database Administration.

TEAM LEADER:

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Cryptoverse Documentation

Introduction:

Cryptoverse is a **cryptocurrency dashboard** designed to provide investors with **historical price data and market trends** over the past five years. It allows users to analyze the performance of multiple cryptocurrencies through **interactive charts, search features, and customizable timeframes**.

This dashboard serves as both a **powerful investment tool** and an **educational resource**, helping users make data-driven decisions while understanding market fluctuations.

Features:

-  **Historical Price Data** - Track price movements over 5 years.
-  **Interactive Charts** - View trends using **React Chart.js**.
-  **Search Functionality** - Find specific cryptocurrencies easily.
-  **Real-Time Market Updates** - Get the latest data with API integration.
-  **Compare Market Trends** - Analyze performance between different cryptocurrencies.
-  **Educational Insights** - Learn about market patterns & price influences.

Tech Stack:

- **Frontend:** React.js, Redux Toolkit, Vite, Ant Design, Chart.js
- **Backend API:** CoinRanking API (RapidAPI) / CoinGecko API
- **State Management:** Redux Toolkit
- **Routing:** React Router DOM
- **Styling:** Ant Design & Custom CSS

Installation & Setup

Prerequisites:

Make sure you have the following installed:

- **Node.js** (Download: <https://nodejs.org/>)
- **Git** (Optional, for version control - Download: <https://git-scm.com/>)
- **React.js** (Guide: <https://react.dev/>)

1 Clone the Repository:

```
git clone  
https://github.com/ShadowsAreAlone/Cryptocurrency-.git  
cd cryptoverse
```

2 Install Dependencies

```
npm install
```

3 Set Up Environment Variables

Create a **.env.local** file in the project root and add:

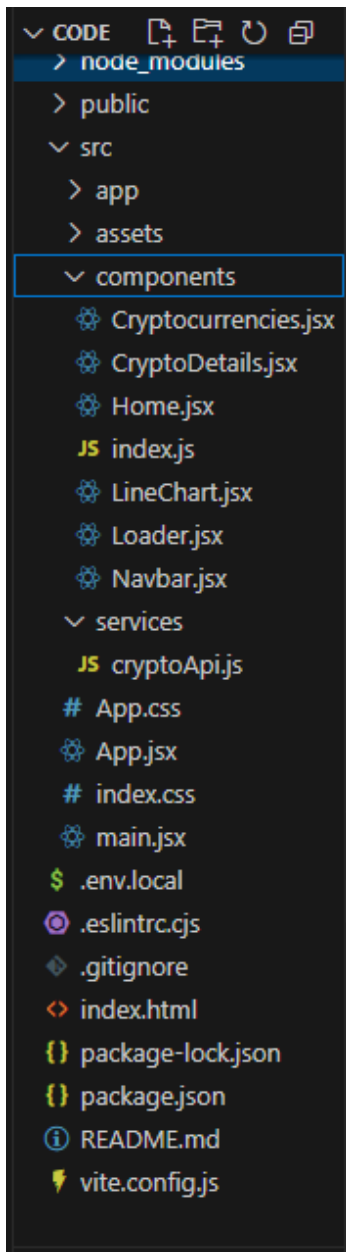
```
VITE_RAPID_API_KEY=your-api-key  
VITE_RAPID_API_HOST=coinranking1.p.rapidapi.com  
VITE_BASE_URL=https://coinranking1.p.rapidapi.com
```

4 Start the Development Server

```
npm run dev
```

 Now open your browser and go to <http://localhost:5173> Or click the link in the terminal

Project Structure



API Integration:

Cryptoverse fetches **real-time cryptocurrency data** using API endpoints from CoinRanking (RapidAPI) or CoinGecko.

Navigating the Platform:

◆ **Home Page:** Displays global crypto stats + top 10 cryptocurrencies.

◆ **Cryptocurrencies Page:** Lists all cryptocurrencies with search functionality.

◆ **Details Page:** Displays charts + price history for a selected cryptocurrency.

Contributors:

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References & Resources

📌 CoinRanking API - <https://rapidapi.com/Coinranking>

📌 React Documentation - <https://react.dev/>

📌 Redux Toolkit - <https://redux-toolkit.js.org/>

📌 Project Files & Resources:

<https://drive.google.com/file/d/17vXfpiRQdPs5bsTFClOx-wGfJnV4-bfG/view?usp=drivesdk>