1.Introduction

• **Project Title:**

Cryptoverse: A

Cryptocurrency Dashboard

• **Team Members:**

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2.Project Overview

- **Purpose:** Provide an overview of the cryptoverse, including cryptocurrencies, blockchain technology, and decentralized finance.
- **Features:** Covers key components such as Bitcoin, Ethereum, DeFi, NFTs, and the Metaverse.

3.Architecture

- **Blockchain Structure:** Distributed ledger system ensuring secure and transparent transactions.
- **Smart Contracts:** Self-executing contracts with built-in protocols primarily on Ethereum.
- **Decentralized Applications (DApps):** Applications running on blockchain networks without intermediaries.

4.Setup Instructions

- **Prerequisites:** Understanding of blockchain technology and cryptocurrency wallets.
- **Installation:** Use crypto wallets like MetaMask, Trust Wallet, or hardware wallets for secure storage and transactions.

5.Folder Structure

- **Blockchain Network:** Describes the structure of blockchain nodes and miners.
- **Cryptocurrency Assets:** Digital tokens with varying use cases, including store of value and smart contract execution.

- **DeFi Applications:** Platforms for lending, staking, and decentralized exchanges.

6.Running the Application

- **Using Crypto Wallets:** Install and set up a crypto wallet for transactions.
- **Trading on Exchanges:** Create an account on a centralized (e.g., Binance) or decentralized exchange (e.g., Uniswap).

7.Component Documentation

- **Key Components:** Cryptocurrencies, DeFi, NFTs, Smart Contracts.
- **Blockchain Consensus Mechanisms:** Proof of Work (PoW), Proof of Stake (PoS), and other models.

8.State Management

- **Global State:** Distributed ledger updates affecting the entire network.
- **Local State:** Individual wallet and transaction histories.

9.User Interface

- **Crypto Wallets UI:** Interfaces like MetaMask, Ledger Live.
- **Exchange UI:** Features of trading platforms, including order books and price charts.

10. Styling

- **UI Frameworks:** Many platforms use Material UI, Bootstrap, or custom CSS for crypto dashboards.
- **Dark Mode:** Frequently used for better visualization of charts and data.

11. Testing

- **Blockchain Testing:** Testnets such as Ropsten and Goerli for Ethereum development.
- **Smart Contract Testing:** Using frameworks like Truffle, Hardhat.

12. Screenshots or Demo

➢ **Home page** : This pages consists of stats of global crypto like total cryptocurrencies,
total exchanges, market cap etc. Also consist of top 10 cryptocurrencies in the world.
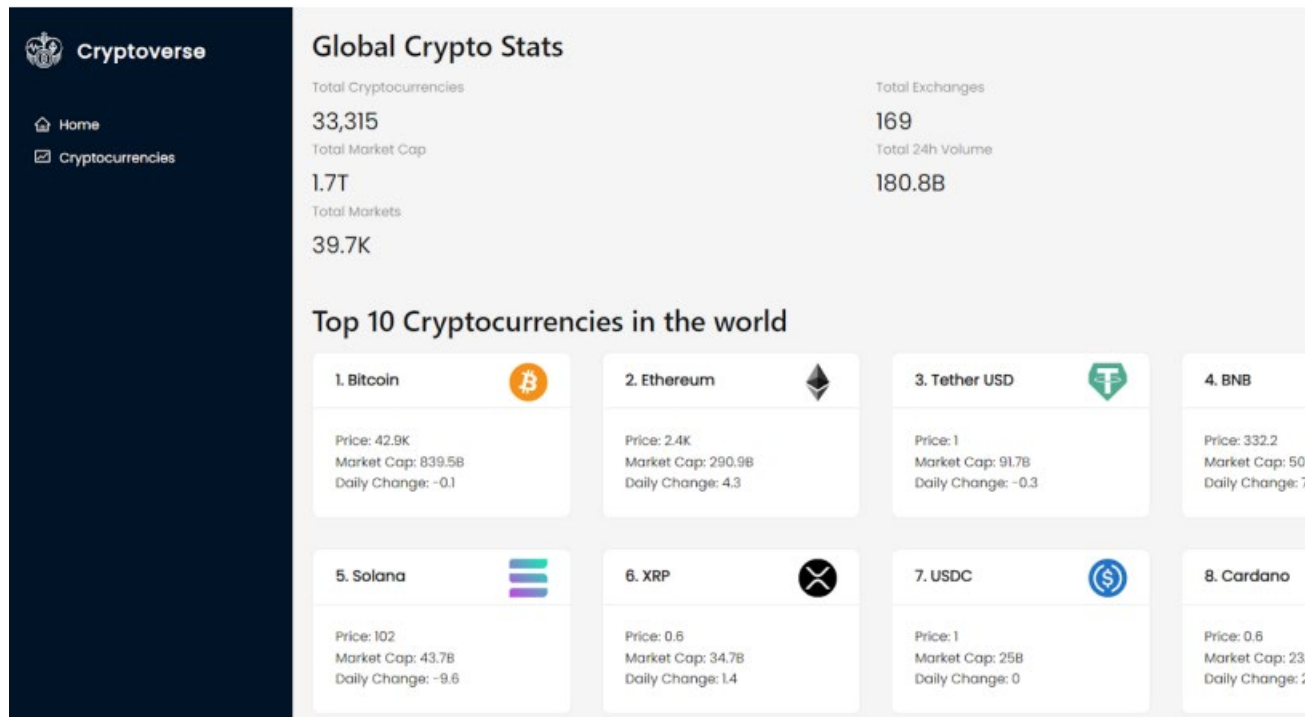
> ➤ **Crypto currencies page** : This pages contains all cryptocurrencies which are
>
> currently in flow in the world. There is also a search feature where users can search
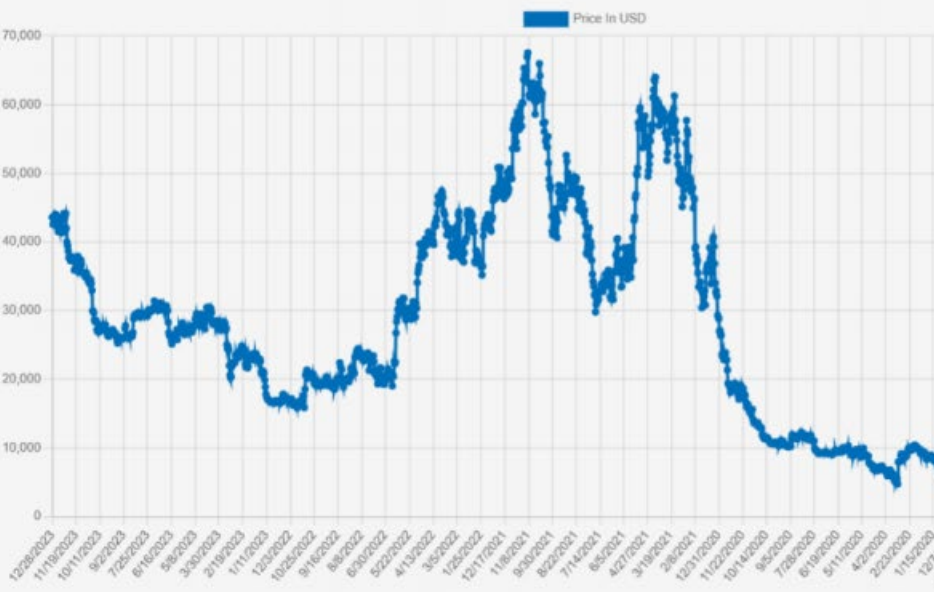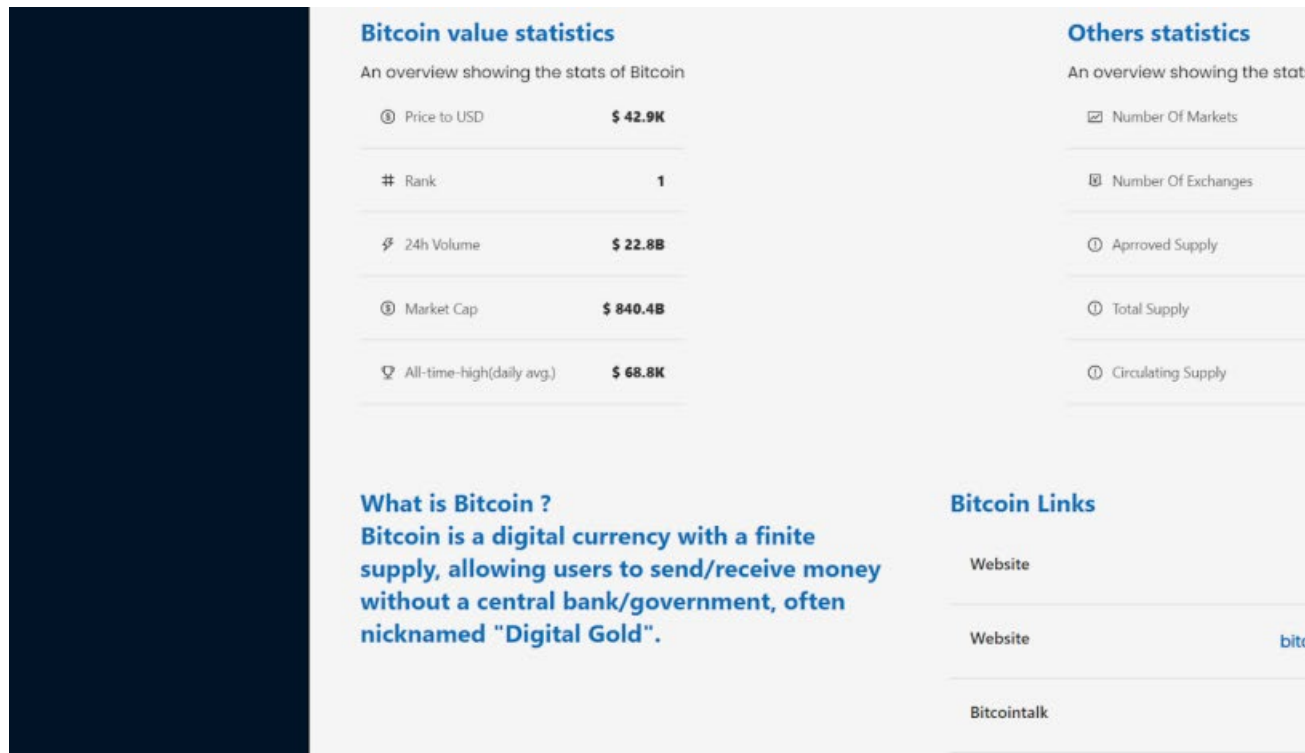>
> and find out about their desired cryptocurrency
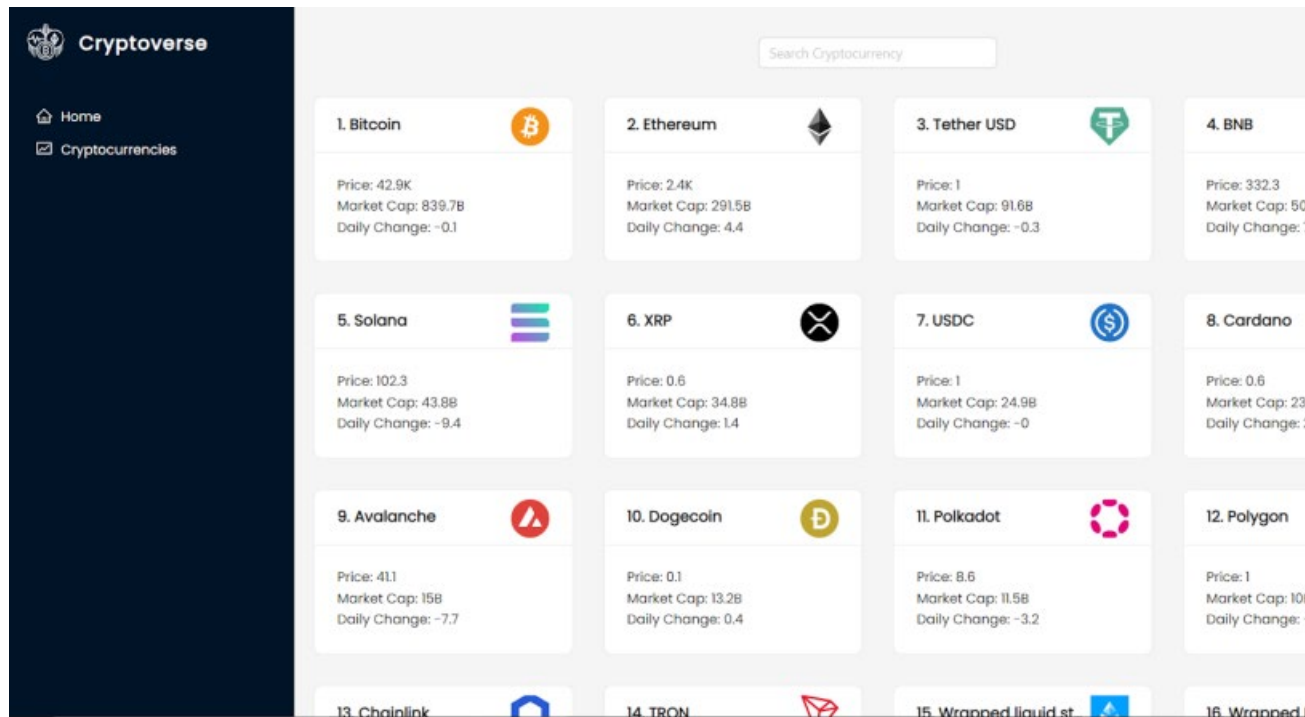
➢ **Crypto currency details page :** This page contains the line chart with data
representation of price of cryptocurrencies. Also contains statistics
and website links of
cryptocurrencies.

Bitcoin Price Chart

Change: 1084.17%

5y

Bitcoin value statistics

An overview showing the stats of Bitcoin

⑤ Price to USD		**$ 42.9K**
# Rank		**1**
⚡ 24h Volume		**$ 22.8B**
⑤ Market Cap		**$ 840.4B**
⚲ All-time-high(daily avg.)		**$ 68.8K**

Others statistics

An overview showing the stat

☑ Number Of Markets
⊠ Number Of Exchanges
① Aprroved Supply
① Total Supply
① Circulating Supply

What is Bitcoin ?

Bitcoin is a digital currency with a finite supply, allowing users to send/receive money without a central bank/government, often nicknamed "Digital Gold".

Bitcoin Links

Website	
Website	bit
Bitcointalk	

13. Known Issues

- **Volatility:** High price fluctuations in crypto markets.
- **Security Risks:** Hacks, scams, and vulnerabilities in smart contracts.

14.Future Enhancements

- **Scalability Solutions:** Layer 2 solutions like Lightning Network, Ethereum Rollups.
- **Interoperability:** Cross-chain communication improvements.
- **Regulatory Frameworks:** Evolving global policies on cryptocurrency adoption.

The Cryptoverse is continuously expanding, offering vast opportunities in finance, technology, and digital ownership.