MINI PROJECT- II

SYNOPSIS

A
Synopsis
On

"CryptoView360"

Submitted By:

- Santosh Kumar Morya (201500620)
- Vaibhav Varshney (201500766)
- Priyanshu Awasthi (201500528)
- Shivang Srivastava (201500658)

Submitted To:

Mr. Vikas Kumar (Technical Trainer)

Department of CSE (Computer Science Engineering)

GLA University, Mathura UP (India)

Declaration

We hereby declare that the work in the project report entitled “CryptoView360” GLA University, Mathura for the award of the degree of "B.Tech" is an authentic record of my work carried out during the Sixth semester of the Third year, 2023 under the supervision of Mr. Vikas Kumar(Technical Trainer). The matter embodied in this project report has not been submitted elsewhere by anybody for the award of any otherdegree/diploma.

S.NO	Name	University Roll No.
1.	Vaibhav Varshney	201500766
2.	Santosh Kumar Morya	201500620
3.	Priyanshu Awasthi	201500528
4.	Shivang Srivastava	201500658

Acknowledgment

It gives us a great sense of pleasure to present the synopsis of the B.Tech mini-project undertaken during B. Tech III Year. This project is going to be an acknowledgment to the inspiration, drive, and technical assistance that will be contributed to it by many individuals. We owe a special debt of gratitude to Mr. Vikas Kumar, Technical Trainer, for providing us with an encouraging platform todevelop this project, which thus helped us in shaping our abilities towards a constructive goal, and for his constant support and guidance to our work.

His sincerity, thoroughness, and perseverance have been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies. We also do not like to miss the opportunity to acknowledge the contribution of all department faculty members for their kind guidance and cooperation.

Vaibhav Varshney(201500766)

Santosh Kumar Morya(201500620)

Priyanshu Awasthi(201500528)

Shivang Srivastava(201500658)

ABSTRACT

The abstract of this project is about an online cryptocurrency tracker Web-Application based on MERN stack that aims to provide a user-friendly platform for investors and enthusiasts to track the value of multiple cryptocurrencies in real-time. The website will be developed using the MERN stack and hosted on a cloud-based platform. Users will be able to view real-time information on various cryptocurrencies, including current prices, trends, and news related to each cryptocurrency. The website will also provide historical data and charts to help users analyze the performance of each cryptocurrency. Users can create accounts to save their favorite cryptocurrencies and receive alerts on price changes. The website will use various APIs to fetch real-time data from different cryptocurrency exchanges, and the development will follow the agile software development methodology.

The website will also offer a variety of features to help users stay up-to-date with the latest developments in the cryptocurrency world. Users will be able to receive news and updates related to their favorite cryptocurrencies, as well as access to a wealth of historical data and charts to help them analyze market trends. Additionally, the website will offer various tools and resources to help users learn more about the cryptocurrency market and improve their investment strategies.

Overall, the online cryptocurrency tracker website will be a valuable resource for cryptocurrency investors and enthusiasts, providing them with the tools and information they need to make informed decisions and stay ahead of the curve in this rapidly-evolving market.

Contents

INTRODUCTION

1.1. Objective

Cryptocurrencies have become an increasingly popular investment option, with their decentralized and secure nature making them an attractive alternative to traditional investments. However, with so many cryptocurrencies available and their values fluctuating rapidly, it can be challenging for investors to stay up to date with the latest changes and make informed decisions.

This is where an online cryptocurrency tracker website based on the MERN stack can come in handy. By leveraging the power of MongoDB, Express JS, React JS, and Node JS, such a website can provide real-time updates on the value and changes of multiple cryptocurrencies, making it easier for investors and enthusiasts to stay on top of the market.

Moreover, with the increasing adoption of cryptocurrencies and the growth of the market, a cryptocurrency tracker website can be an excellent opportunity for businesses and entrepreneurs to tap into a growing market and provide value to users. Whether for personal use or as part of a larger investment strategy, a MERN stack-based cryptocurrency tracker website can be a valuable tool for anyone looking to stay informed and make the most out of their investments.

Project Overview

The “CryptoView360” has been developed to override the problems prevailing in the practicing manual system. This system is designed to carry out operations in a smooth and effective manner.

The platform will also include advanced charting tools, allowing users to visualize price trends and patterns over time. This can help users to make informed decisions on when to buy, sell, or hold their cryptocurrency investments.

Overall, the objective of this project is to create a user-friendly and comprehensive platform that provides users with the tools and information they need to make informed decisions about their cryptocurrency investments. By leveraging the power of real-time data, advanced charting tools, and up-to-date news and analysis, this platform can be a valuable resource for both novice and experienced cryptocurrency investors alike.

SOFTWARE AND HARDWARE REQUIREMENTS

- Visual Studio Code
- Browser
- Window 10
- MongoDB
- Node.js
- Express.js
- React.js

PROJECT DESCRIPTION

The website will be designed to provide real-time information on various cryptocurrencies. Users will be able to view the current prices, trends, and news related to each cryptocurrency.

These apps usually provide real-time updates on the prices of cryptocurrencies, along with charts, graphs, and other tools for analyzing their performance over time.

The website will also provide historical data and charts to help users analyze the performance of each cryptocurrency. Users will be able to create accounts to save their favorite cryptocurrencies and receive alerts on price changes.

IMPLEMENTATION

To implement this project, we will use the MERN stack, which includes MongoDB as the database, Express.js as the web framework, React.js as the front-end framework, and Node.js as the back-end runtime environment. Using the MERN stack allows us to efficiently build a scalable and robust web application.

We will choose a cloud-based platform for hosting, which will provide us with the necessary resources to run the web application. We will also ensure that the platform provides high availability and scalability to handle large amounts of traffic.

Design and development of the user interface will be a critical aspect of the project. We will create wireframes and prototypes to ensure that the user interface is intuitive and user-friendly. Using APIs, we will incorporate real-time data from multiple cryptocurrency exchanges, allowing users to access up-to-date information on prices, trading volumes, and market trends.

We will follow the Agile software development methodology, which emphasizes collaboration, flexibility, and iterative development. Regular testing will be conducted to ensure that the website is free of bugs and meets the users' requirements.

Once the website is developed, we will deploy it to the chosen cloud-based platform. User acceptance testing will be conducted to gather feedback and identify areas for improvement. Based on the feedback, we will refine the website and add new features to enhance the user experience.

Overall, successful development of this project will require a collaborative effort from developers, designers, and project managers. Regular communication and coordination will be critical to ensure timely and efficient development while meeting the users' needs.

REFERENCES: -

The website will use various APIs to fetch real-time data from different cryptocurrency exchanges.
The team will also refer to online resources such as Stack Overflow, Medium, and GitHub to help with the development process.

Websites:

- https://stackoverflow.com/
- https://www.google.com
- https://nodejs.org/en/docs
- https://legacy.reactjs.org/docs/getting-started.html
- https://www.mongodb.com/docs/

Faculty Guidelines:

Mr. Vikas Kumar (Technical Trainer at GLA University)

GitHub Repository link:

https://github.com/Santosh7017/CryptoView360