



Project: Real-Time Stock Market Data Web Application.

Task: Overview of the Project

Synopsis

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The Real-Time Stock Market Data Web Application.

A full-stack web application that allows investors to track real-time stock market data in an easy-to-understand format. This web application is designed to pull real-time stock market data from APIs, display stock prices, volume, market trends, and other information that investors need to track their investments.

Key Features:

- Real-time stock market data: The web application pulls real-time stock market data from APIs and displays stock prices, volume, market trends, and other information.
- User Authentication and Security: The web application has features such as user authentication and security to ensure that user data is protected.

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- Easy-to-Understand Format: The web application displays stock market data in an easy-to-understand format, making it easier for investors to track their investments.
- Responsive Design: The web application is designed to be responsive, making it easy to use on different devices.

Technologies

The Real-Time Stock Market Data Web Application uses a set of modern web technologies to deliver its functionalities. These include:

- Front-end: HTML, CSS, JavaScript, React.js
- Back-end: Node.js, Express.js, MongoDB
- APIs: Alpha Vantage API, News API

Front end and back end.

- To use the front end and back end together, we need to establish communication between them.
- This is typically done through APIs (Application Programming Interfaces).
- The front end sends requests to the back end through APIs, and the back end processes these requests and returns responses to the front end.

Working of both ends

- The front end is built using HTML, CSS, JavaScript, and React.js is responsible for displaying the user interface and receiving user input, such as selecting a stock to view its real-time data.
- The front end sends a request to the back end using an API, and the back end built using Node.js, Express.js, and MongoDB processes the request, retrieves the real-time stock market data from external APIs such as Alpha Vantage API and News API, and returns the data to the front end.
- The front end then displays this data in an easy-to-understand format.

Challenges

The Real-Time Stock Market Data Web Application comes with its fair share of challenges.

- The main challenge of this project will be to pull real-time stock market data from APIs and display it in an easy-to-understand format.
- Another challenge will be to implement user authentication and security features to protect user data.

Deliverables

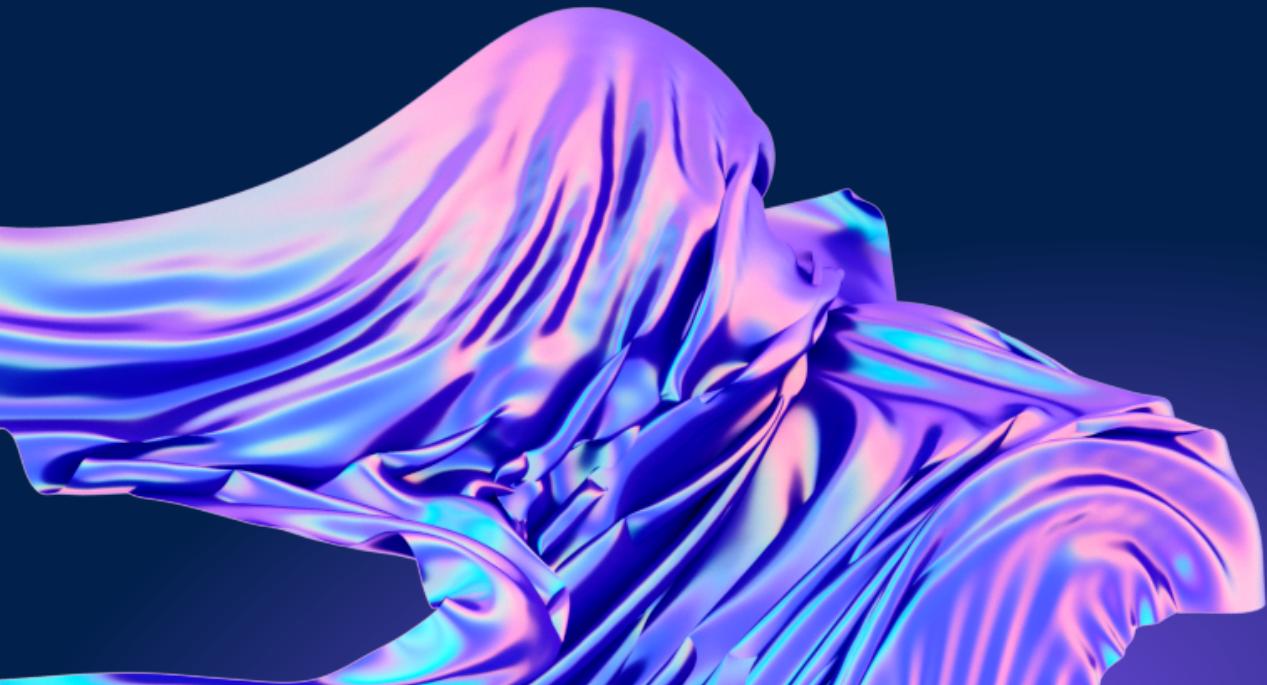
Upon completion, the Real-Time Stock Market Data Web Application will deliver the following:

- A fully functional Real-Time Stock Market Data Web Application.
- Documentation outlining the design and development of the application.
- A presentation showcasing the application and its features.

Conclusion:

The Real-Time Stock Market Data Web Application is an essential tool for investors who want to track their investments in real-time. The application provides an easy-to-understand format that displays stock market data and other essential information to investors. The web application is developed using modern web technologies such as React.js, Node.js, and MongoDB, making it a valuable addition to any full-stack web developer's portfolio.

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Thank You

<https://github.com/OwaisShaikh03/Task3>