**KIET GROUP OF INSTITUTIONS, GHAZIABAD**

**CSE(AI&ML) 3rd Year**

**VISION AND REQUIREMENT DOCUMENT:**

**Project: Finalgo – “Automating Stock Market Trading and Investing”**

**1. Introduction & Objective:**

Finalgo is a sophisticated software solution designed to automate stock market trading and investing. The primary objective of Finalgo is to provide users with a platform that can deploy custom strategies based on real-time market data, thereby enhancing decision-making processes and optimizing trading outcomes. The goal is specific, measurable, achievable, relevant, and time-bound, as it seeks to streamline the trading process and provide accurate future predictions, ultimately saving users a significant amount of time while maximizing their returns in the stock market.

**2. Requirement Gathering and Planned Features:**

The development of Finalgo began with a comprehensive requirement gathering phase to ensure that the software meets the diverse needs of stock market investors and traders. The team meticulously gathered both functional and non-functional requirements to guide the development process.

**(a)Functional Requirements**: Finalgo includes user-friendly interfaces for strategy deployment and data visualization, ensuring that users can easily navigate the platform and make informed decisions.

**(b)Non-Functional Requirements**: Finalgo is designed with high reliability, scalability, and security in mind, ensuring that user data and investments are protected at all times.

**3.Design:**

The design of Finalgo is centered around providing users with a seamless and intuitive experience. The system architecture was carefully planned to incorporate real-time data processing and strategy deployment, ensuring that users have access to the most up-to-date information. Workflow and flow charts were used to visualize the design, providing a clear understanding of the software's functionality. Wireframes were created to outline the user interface, focusing on ease of use and accessibility.

**4. Tools Used:**

Finalgo utilizes a range of cutting-edge technologies to deliver its functionality.

**Programming Language:**JavaScript was chosen for its versatility and compatibility with web technologies, allowing for the development of a responsive and dynamic user interface.

**Frameworks:** React.js, Node.js,Tailwind,Redux and Express.js were utilized for front-end and back-end development, ensuring a seamless user experience and efficient data processing.

**APIs:** External APIs were integrated into Finalgo to fetch real-time market data, enhancing the software's predictive capabilities and enabling users to make informed decisions.

***In conclusion, Finalgo represents a significant advancement in stock market automation, offering users a powerful tool for optimizing their trading strategies and maximizing their returns. With its user-friendly interface, robust architecture, and predictive capabilities, Finalgo is poised to revolutionize the way users engage with the stock market.***