Mobile App Development & Design about Stocks E-learning and Market Prediction

A Final Project
Submitted as one of the requirements to obtain Bachelor of Computer (S.Kom)

By
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September 2023

PANEL OF EXAMINER APPROVAL

The Panel of Examiners declare that the undergraduate thesis entitled **MOBILE APP DEVELOPMENT & DESIGN ABOUT STOCKS E-LEARNING AND MARKET PREDICTION** that was submitted by **FUJI ASTUTI** majoring in **Information System** from the Faculty of Computer Science was assessed and approved to have passed the Oral Examination on Wednesday May 31, 2023.

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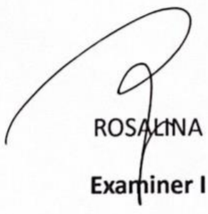

ROSALINA

Examiner I

Mobile App Development & Design about Stocks E-learning and Market Prediction

By

FUJI ASTUTI
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Cutifa Safitri

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Revision

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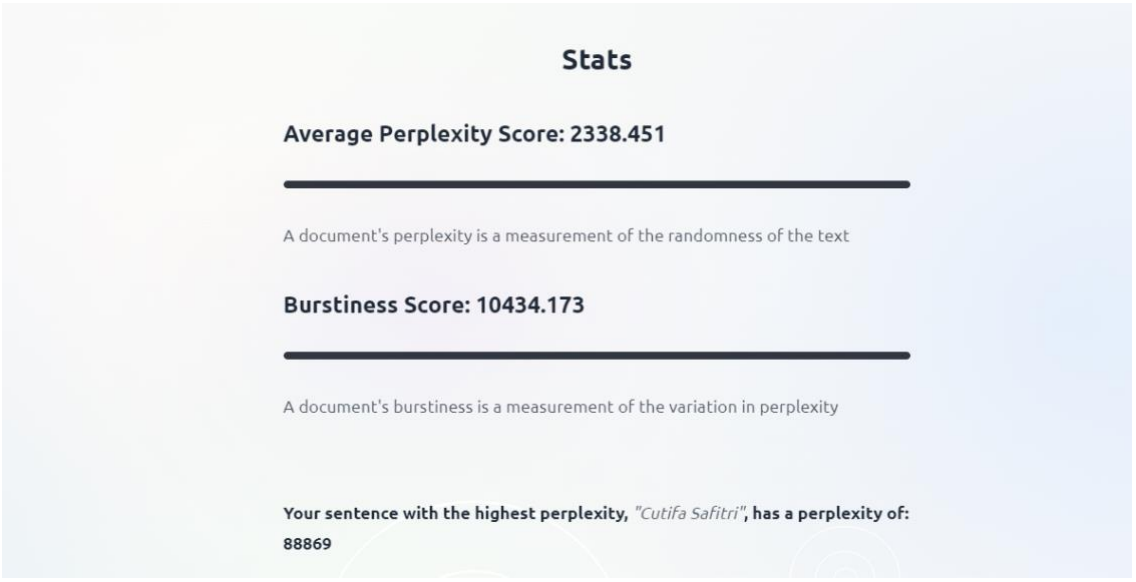

ABSTRACT

This thesis explores the development and design of a mobile application aimed at revolutionizing stocks e-learning and market prediction. With the increasing popularity of stock trading and the demand for accessible learning resources, this research focuses on leveraging mobile technology to provide users with a comprehensive and user-friendly platform.

This thesis provides a comprehensive platform for stock e-learning and market prediction, offering users access to valuable educational resources and tools. It helps individuals increase their understanding of stocks, financial markets, and investment strategies, empowering them to make informed decisions and increase their financial literacy.

The approach utilized to achieve the project goal for the Mobile App Development & Design about Stocks E-learning and Market Prediction involves the following strategies:

1) Requirements Gathering: Conducting thorough research and analysis to understand the requirements and objectives of the mobile app. This includes identifying the target audience, their needs, and the specific features and functionalities required for effective e-learning and market prediction.

2) User-Centered Design: Adopting a user-centered design approach to create a seamless and intuitive user interface. This involves conducting user research, creating user personas, and developing user journey maps to ensure that the app meets the needs and preferences of its users.

3) Technology Selection: Identifying and selecting the appropriate technologies, frameworks, and programming languages for the development of the mobile app. This includes considering factors such as platform compatibility, scalability, security, and performance to ensure a robust and efficient app.

4) Agile Development: Implementing an agile development methodology to facilitate flexibility, collaboration, and iterative development. This involves breaking down the development process into manageable sprints, conducting regular meetings, and incorporating user feedback to ensure the app's alignment with project goals.

5) Frontend and Backend Development: Developing the frontend and backend components of the mobile app. This includes designing and implementing the user interface, integrating APIs for real-time market data, developing algorithms for market prediction, and ensuring seamless data flow and functionality.

By utilizing this approach, the Mobile App Development & Design about Stocks E-learning and Market Prediction aims to deliver a user-friendly, feature-rich, and reliable mobile app that provides users with a seamless e-learning experience and accurate market predictions. The approach ensures that the app meets the project's goals, adheres to industry standards, and offers a valuable tool for individuals seeking to enhance their understanding of stocks and make informed investment decisions.

The proposed method for the Mobile App Development & Design about Stocks E-learning and Market Prediction involves optimizing existing functionalities, improving user engagement, and strengthening the overall capabilities of the app. By adding innovative features and implementing novel strategies, the goal is to enhance the user experience and provide unique benefits to users.

By adding advanced data visualization tools, users can gain a deeper understanding of stock market trends and patterns. This allows them to make more informed investment decisions and effectively predict market movements. Additionally, by integrating interactive learning modules, the app fosters active learning and improves user retention of complex financial concepts.

Optimizing the app's algorithm for market prediction enables users to receive accurate and real-time insights. By leveraging machine learning techniques and historical market data, the app can generate more precise predictions, enhancing users' ability to identify profitable investment opportunities.

Improving the user interface and navigation enhances the overall usability of the app. Intuitive design and streamlined user flows make it easier for users to access the desired information, navigate through different sections, and interact with the app effortlessly. This results in a more engaging and enjoyable learning experience.

By boosting social interaction and community features, the app creates a collaborative environment where users can share insights, exchange ideas, and learn from each other. This fosters a sense of belonging and facilitates knowledge sharing among users, further enhancing the learning process.

The result of implementing these additions and optimizations is a Mobile App Development & Design about Stocks E-learning and Market Prediction that offers an enriched learning experience, accurate market predictions, improved usability, and a vibrant user community. This not only equips users with the knowledge and tools to navigate the stock market effectively but also fosters a supportive and engaging learning environment that enhances their overall learning outcomes and investment success.

DEDICATION

I dedicate this thesis to my loving family, whose unwavering support and belief in my abilities have been my greatest source of strength and motivation. Their constant encouragement and sacrifices have shaped me into the person I am today. This accomplishment would not have been possible without your love, understanding, and sacrifices.

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Finally, I would like to thank everyone who was important for the successful realization of this undergraduate Final Project. This Final Project is still far from being perfect, but it is hoped that it will be useful not only for researchers, but also for readers. For this reason, suggestions and constructive criticism are most welcome.

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