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WEB-BASED APPLICATION FOR HARUMANIS IN UITM PERLIS

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ABSTRACT - This project aimed to develop a comprehensive web-based application for Harumanis mangoes at UiTM Perlis, focusing on providing information, facilitating online ordering, and enhancing the overall user experience. The research findings revealed a moderate level of awareness among students and staff regarding Harumanis mangoes, but a strong need for more information and a convenient platform for accessing such information and placing orders. The web application addressed these needs by offering a user-friendly interface, intuitive navigation, and features like order tracking and notifications. The discussion highlighted the potential of the web application in promoting Harumanis mangoes as an agro-tourism product in Perlis. The project utilized the Scrum framework for software development, emphasizing iterative and flexible approaches. The implementation of the web application successfully met the objectives by increasing awareness, providing convenient access to information, and enhancing the overall user experience. The project contributes to the accessibility and promotion of Harumanis mangoes, serving the UiTM Perlis community and mango enthusiasts alike.

Keywords: Harumanis, Web application, Online ordering

1. INTRODUCTION

The Harumanis Mango, also known as Magnifera Indica, is a highly sought-after fruit in Malaysia, particularly in the northern state of Perlis. It is a tropical fruit that thrives in hot and humid climates, and it is known for its sweet and fresh taste with a hint of acidity. The cultivation of Harumanis Mango in Perlis began in 1982 as part of a government-funded program, and it has since become an iconic agro-tourism product in the region. UiTM Perlis, one of the universities in Perlis, has also embraced the cultivation of Harumanis Mango on its campus, allowing students and staff to purchase the fruit directly (Uda, Gopinath, Hashim, Hakimi, Anuar , (2020). However, there is currently no website providing information about Harumanis at UiTM Perlis, leading to the need for a web-based application that offers details about the product, its origins, and the orchard. This application will also streamline the ordering process, replacing the existing Google form system. The proposed model will utilize the Laravel software development framework and PHP web application framework to create a database-driven website that caters to the needs of staff, students, and the management of Harumanis at UiTM Perlis, ultimately enhancing the accessibility and convenience of purchasing and ordering the Harumanis mango and its products.

2. METHODOLOGY

This study utilizes the Scrum framework as a research framework. Scrum is an agile and lightweight methodology widely used in software product development, as well as in other fields such as finance and research (Singhto & Phakdee, 2017). It emphasizes iterative and flexible approaches, with the development process organized into short, time-boxed intervals called sprints. During sprint planning, the product owner defines the sprint goal based on customer value, and the development team strategizes on how to achieve it. Daily Scrum meetings synchronize operations, and the sprint review showcases completed work. Sprint retrospective identifies process improvements. Scrum offers advantages such as fast-paced and cost-effective development, continuous feedback, and a focus on high-priority requirements. It is considered suitable for complex projects and individual productivity enhancement.

3. RESULTS AND DISCUSSION

The findings of this project indicate a moderate level of awareness among students and staff at UiTM Perlis regarding Harumanis mangoes, but a strong need for more information about the fruit and its cultivation. Participants expressed a desire for a convenient and accessible web application to access information and place orders online. The discussion highlights the significance of the web application in meeting these needs and improving the overall user experience. By offering a user-friendly interface, intuitive navigation, and features like order tracking and notifications, the web

application can enhance awareness, engagement, and convenience for Harumanis mango enthusiasts. Furthermore, the application has the potential to promote Harumanis mangoes as an agro-tourism product in Perlis, showcasing the orchard and its unique features. Developing a comprehensive web application that addresses these findings will effectively serve the UiTM Perlis community and contribute to the promotion and accessibility of Harumanis mangoes.

4. NOVELTY OF RESEARCH / PRODUCT

The novelty of the proposed Harumanis web application lies in its specific focus on providing information and facilitating online ordering and purchasing for Harumanis mangoes at UiTM Perlis. While there are existing websites and applications for various products and services, there is currently no dedicated platform for Harumanis mangoes at UiTM Perlis. The web application will serve as a centralized hub for all information related to Harumanis mangoes, including details about the product, its origins, the orchard, and any related activities. Additionally, the application will streamline the ordering process by replacing the current Google form system, allowing customers to easily check the status of their orders and providing the management with better order tracking capabilities. This specialized focus on Harumanis mangoes at UiTM Perlis distinguishes the web application from generic e-commerce platforms and enhances the accessibility and convenience of purchasing and ordering this specific product.

5. CONCLUSION

In conclusion, this project successfully developed a web-based application for Harumanis mangoes at UiTM Perlis. The application addressed the need for information and online ordering, improving the user experience and accessibility for students and staff. By promoting Harumanis mangoes and streamlining the ordering process, the project contributes to the promotion and enjoyment of this iconic fruit in Perlis.

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