Development of an Order Management Application for 1987 Hot Pot and Grill Restaurant

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***Abstract*—This thesis details the development of an order management application for a 1987 hot pot restaurant using Dart and Flutter. The author conducted a thorough analysis of the restaurant's order process, defining the application's functional and non-functional requirements. The project involved designing and implementing functionalities such as user login, table status management, and table editing. The application was successfully developed, and the author gained a deeper understanding of Dart and Flutter. Future work includes practical testing at the restaurant, developing features for deleting menu and table data, and enhancing the user interface.**

***Index Terms*—Dart, Flutter, Order Management, Hot Pot Restaurant, Application Development**

I. Introduction

The thesis provides an overview of the basic knowledge of Dart and Flutter, and explores the framework and architecture of Flutter. It also includes a detailed analysis of the order process at the 1987 hot pot restaurant, defining the application's functional and non-functional requirements. The author designed and implemented various use cases, such as user login, table status management, and table editing. The project aimed to streamline the order management process at the restaurant, providing a more efficient and user-friendly solution [1]. Published books on the methods and subject of this project provide context for this English summary [3].

II. Methods

The author used Dart and Flutter to develop the order management application. The project involved analyzing the restaurant's order process, defining the application's requirements, and implementing various functionalities. The methods included user interface design, database management, and testing. The author conducted a thorough analysis of the restaurant's order process, identifying key steps and pain points. This analysis helped in defining the application's functional and non-functional requirements, such as user authentication, table status updates, and table editing capabilities [1].

III. Results

The application was successfully developed, and the author gained a deeper understanding of Dart and Flutter. The project also improved the author's documentation skills. The implemented functionalities included user login, table status management, and table editing. The application allowed users to log in, view and update table statuses, and edit tables as needed. However, no measured evaluation was provided to assess the application's performance or user satisfaction [1].

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IV. Discussion

The application was designed to streamline the order management process at the 1987 hot pot restaurant. The author implemented various functionalities, such as user login, table status management, and table editing. The project provided valuable insights into the practical application of Dart and Flutter in real-world scenarios. The author noted that the application could be further improved by adding features for deleting menu and table data, and enhancing the user interface. These enhancements would provide a more comprehensive solution for the restaurant's needs [1]. Earlier ICTU undergraduate work by Đỗ Thị Thu addressed sales management software [2].

V. Conclusion

The thesis successfully developed an order management application for the 1987 hot pot restaurant. The author gained a better understanding of Dart and Flutter, and improved their documentation skills. Future work includes practical testing at the restaurant, developing features for deleting menu and table data, and enhancing the user interface. The project demonstrated the potential of using modern development frameworks to improve the efficiency of order management in traditional restaurants [1].

References

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