Project Proposal for Bachelor Thesis

1) Introduction | Project Description:

Restaurant Management System or RMS is a POS system that is well equipped with some of the essential tools or features such as, order management, staff management, inventory tracking, sales report, and many more. In addition, the company where we will go and analyze their system will be located in Siem Reap province.

2) Objectives:

- **Operational efficiency:** We want to develop a system that helps improve the quality of the operation side by introducing a variety of tools that users can use to facilitate their everyday usage.

- **Improve the management:** Since management is a crucial factor of our system, we want to create a system where users can control: order management, menu management, sales report, and so on.

- **Smooth process:** Since most of the systems in the market tend to be quite complicated to operate, RMS will be a system where we prioritize the smooth process where users can have an easy time navigating through our systems.

- **Customer Experience:** Lastly, we truly believe customer experience is one of the most essential components that contribute to the success of a company. Which is why we will aim to design a system that is also focused on the customer experience aspect as well.

3) Main Features:

- **Menu Management:** Support users in managing their menu items, including view, creates, update, and delete items.

- **User Management**: Allow users to manage the tools such as management cases and role configuration, and so on.

- **Table Management**: Allow users to efficiently manage the table well at the restaurant, similar structure as user management.

- **Order Management:** Easy-to-use interface; we will create a system that supports users with their orders on the digital level such as generating invoice list and printing invoice.

- **Sale Report Management**: This feature will generate a report of how well the company's performance, allowing users to track the progress daily, weekly, monthly, or even yearly.

- **Staff Management:** Enable users to keep track of the employee of staff shift each day on the system.

- **Inventory Management:** Allow users to keep track of the ingredients or materials that the restaurant has in stock. The system will be able to increase or reduce the amount of ingredients in stock as well.

3) <u>Technologies</u>:

- **Backend:** Laravel Framework
- **Frontend:** React JS
- **Web server:** Apache
- **Database:** mySQL
- **Tracking process:** Jira Software
- **Methodology:** Agile Framework