



# Development of a Web Application and LINE OA for Vehicle Booking

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## ABSTRACT

Planet Communication Asia Public Company Limited has an internal car booking system for regular use in various projects. However, the system limits the administrator's ability to allocate drivers and cars. Each project can select only one driver and one car. If additional drivers or vehicles are needed, users must create separate bookings. Moreover, the aforementioned tasks are increasing the workload for users and administrators. Additionally, the reporting system is separate from the main system, It requires administrators to handle alongside the booking system and manually enter the vehicle usage expenses for each trip. The existing system has been used for over five years. It has limitations in the user's experience and administrator's management. Therefore, the IT department has assigned the development of a completely new internal car booking system to address these challenges and enhance the administrator's experience.

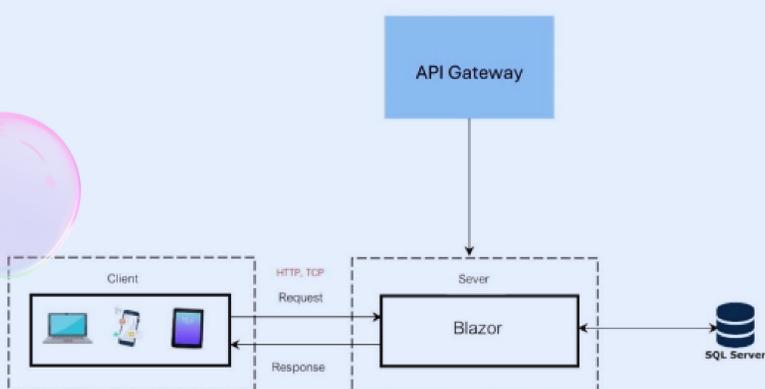
The web application for the car booking system is part of the internal system development project at Planet Communication Asia Public Company Limited. It aims to streamline the administrator's management of vehicles and drivers for different projects. After testing, the developed web application was working properly and satisfied according to the project's objectives.

## INTRODUCTION

### Development and Management of the Corporate Car Booking System

This project focuses on developing a web application for Car booking and driver management within the company, along with an application on LINE Official Account to enhance the efficiency of resource allocation. It aims to optimize the utilization of both vehicles and drivers to adequately meet the company's operational demands, including goods transportation and off-site assignments.

## ARCHITECTURE



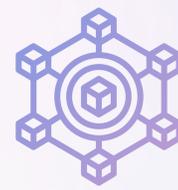
## REFERENCE

- ศุภชัย สมพานิช. คู่มือพัฒนาเว็บแอปพลิเคชันแบบ WebAssembly ด้วย Blazor บน .NET 6/.NET
- Microsoft. Blazor Server. <https://learn.microsoft.com/en-us>
- Syncfusion. Blazor Scheduler. <https://blazor.syncfusion.com>

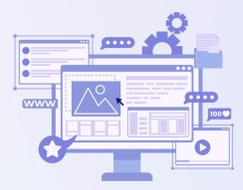
## METHODOLOGY



Agile

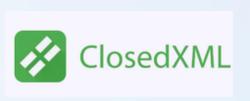


System Design



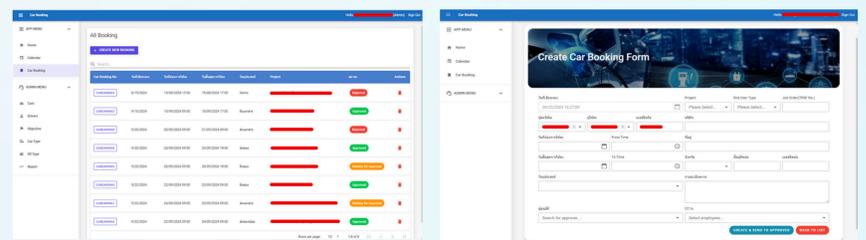
integrate API to UI

## TECHNOLOGY

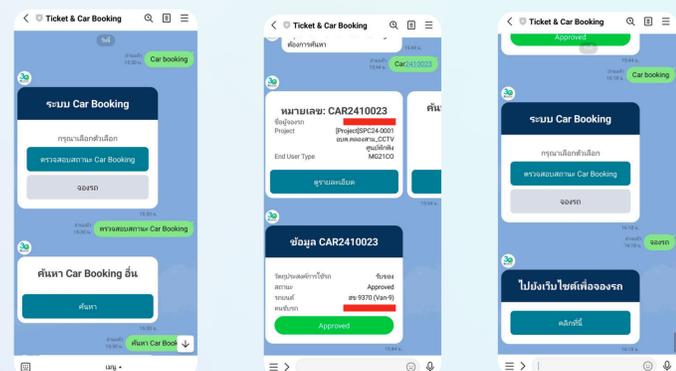


## RESULTS

### Web application



### Line OA



## CONCLUSION

The newly developed vehicle booking system integrates essential functions for report generation and booking management into a single platform, enabling administrators to operate more efficiently and conveniently. This new system has been enhanced to address the limitations of the previous version, ensuring a more effective allocation of resources. Additionally, the integration with the LINE Official Account allows users to check their booking status and make new reservations with greater ease and speed.