

Individual Project

Car Booking System

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1. System introduction

1.1 System overview

The purpose of the CBS car booking system to improve staff members' overall management of the vehicle inventory and manage customer's booking while improving the client reservation process. The two primary user roles in the system are staff and customers.

Customers can easily book cars, view their reservation history, search for particular bookings, modify or cancel reservations, and edit their profiles. Customers can view a dashboard full of useful data that provides insights and analytics to help with decision-making.

A complete package is offered for staff members to manage the car inventory effectively. Staff may handle reservations with ease because of these procedures, which ensures efficient workflow. Staff's dashboard is like a super helpful tool for businesses. It shows real-time info on things like sales and money earned, kind of like a car in various of graph.

1.2 System Users

o Client

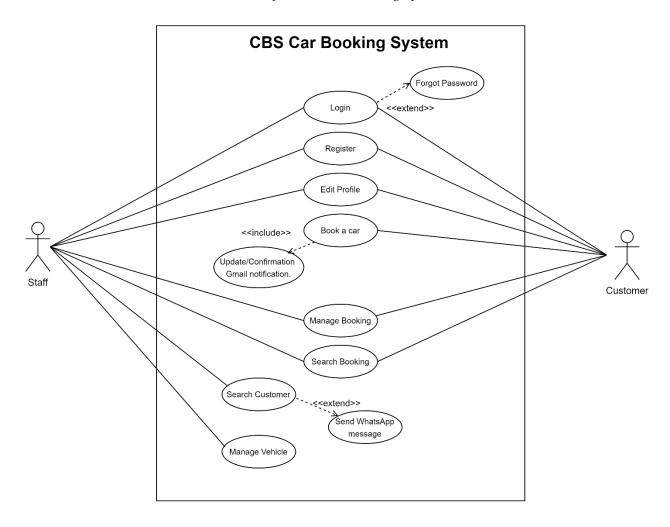
The system's primary users are its customers, whose demands are given top priority in the design. For a seamless experience, they can quickly access reservation options, view their booking history, and manage their profiles.

Staff

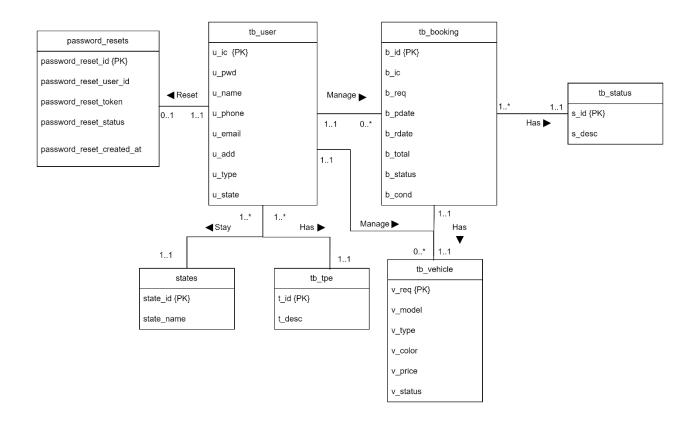
Staff, are able to access features such as car management, booking processing, and a dashboard providing a dashboard of the vehicle inventory and reservations. Their jobs are made easier by the technology, which enables them to effectively manage bookings, keep an eye on the fleet, and guarantee seamless operations.

2. System Design (ERD, Use Case)

Use Case for CBS Car Booking System



ERD CBS car booking system

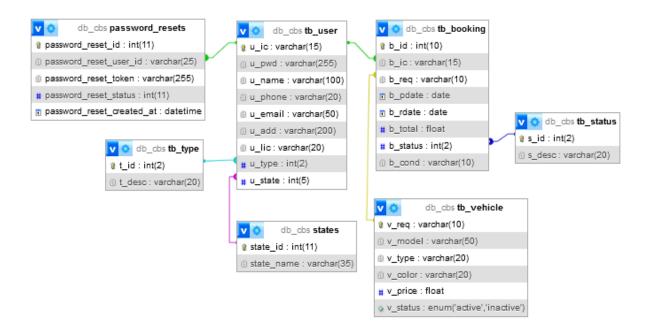


3. Development Software, Language, Technology, and Tools (provide URL)

Aspect	Technology	Description
UML Diagrams	draw.io	With the help of the flexible web tool Draw.io, making Unified Modelling Language (UML) diagrams is simple. Its support for several types of diagrams, including use case and class diagrams, makes it a great tool for project planning and visualisation.
Database	MySQL (phpMyAdmin)	The popular relational database management system MySQL works well with the web-based management use phpMyAdmin. When combined, they provide a stable and simple environment inside the CBS System that makes it easier to organise, develop, and work with data and database structures.
System Template https://startbootstr ap.com/theme/sb- admin-2	Bootstrap	Making responsive and mobile-friendly web interfaces is made easier by using the dynamic frontend framework Bootstrap. By using its pre-made elements, such forms, grids, and navigation bars, Bootstrap ensures the production of consistent and aesthetically pleasing user interfaces.
Programming Languages	PHP, HTML, CSS, JavaScript, JSON	The Car System is dependent on the effective combination of PHP for front-end programming and HTML, CSS, JavaScript, and JSON for server-side scripting.
Hosting Provider	<u>000webhost</u>	000webhost is a free web hosting service that allows individuals and small businesses to host websites without paying. It supports PHP and MySQL for server-side scripting and database management. The service often includes a website builder for easy site creation.

4. Database design (phpMyAdmin screenshot)

Database Design for cbs car booking system

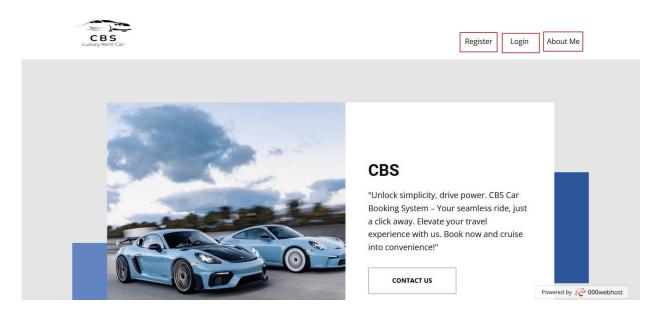


5. Development Steps

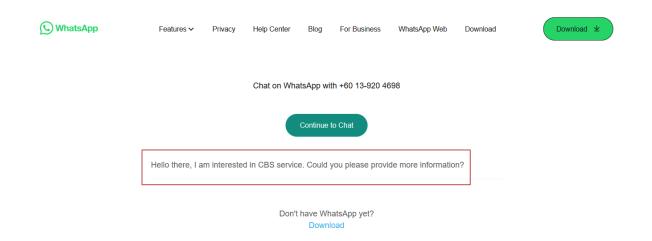
Step	Phase	Description
1	Requirements Gathering	 Gather detailed requirements from both customers and staff members.
		 Identify key features and functionalities needed for customer and staff interactions.
2	System Design	o Create ERD for the system
3	Database Setup	 Develop a database schema to store customer data, booking details, vehicle inventory, and other relevant information.
		o 7 tables in total
4	User Authentication and Authorization	 Implement a secure authentication system for both customers and staff.
		 Define role-based access control to ensure that users only have access to functionalities relevant to their roles.
5	Customer's Component	o Book cars with a user-friendly interface.
		 View and manage their booking history.
		 Search for specific bookings.
		 Modify or cancel booking. Edit their profiles
6	Staff's Component	 Manage the car inventory efficiently.
		 Manage bookings with ease.
		 Access a comprehensive dashboard showing real-time information on sales, earnings, and other relevant metrics
7	Gmail Notifications	 Implement a notification system to keep customers informed about their reservations and forgot password
8	Testing	 Conduct thorough testing, including unit testing, integration testing, and user acceptance testing.

6. System Interface for All Users

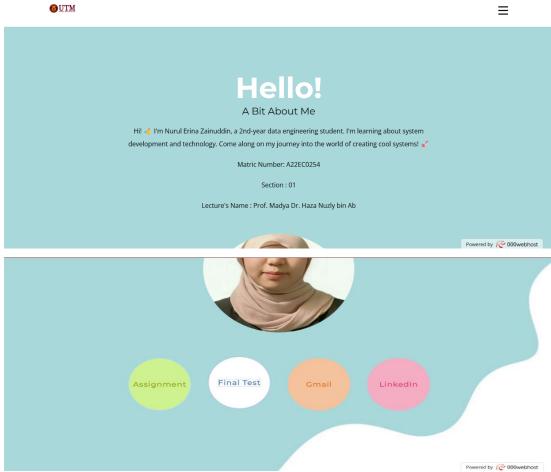
6.1 Index Page



Press the 'Contact Us' button: The system will navigate to WhatsApp. Once there, an automatic message will be sent, saying: 'Hello there, I am interested in CBS service. Could you please provide more information?'



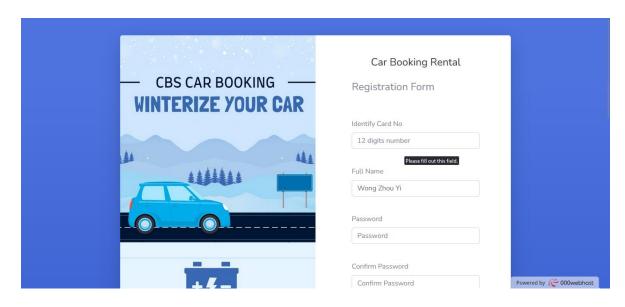
Press the 'About Me' button: The system will navigate to my details page.



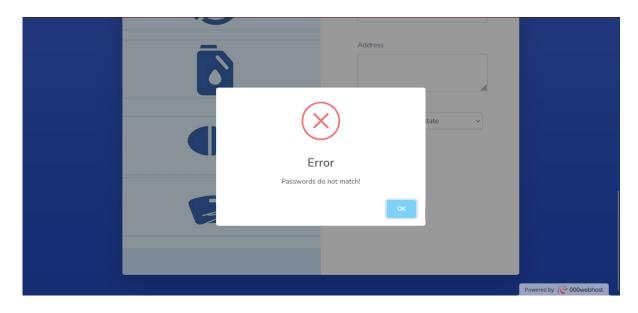
- Press the 'Assignment' button: The system will navigate to assignment page.
- Press the 'Final Test' button: The system will navigate to cbs project page.
- Press the 'Gmail' button: The system will navigate to Gmail .An automatic message will be sent, saying: 'Hi!' to my email.
- Press the 'LinkedIn' button: The system will navigate to my LinkedIn.

6.2 User Authentication

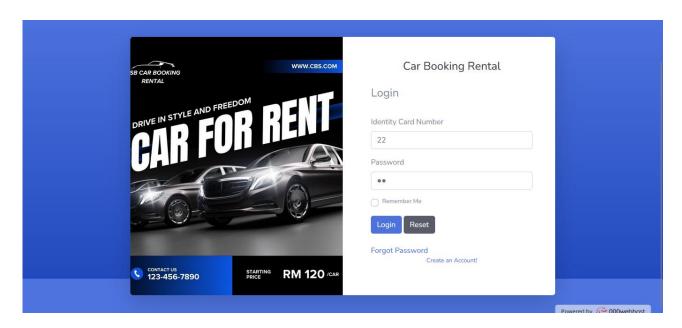
Register:



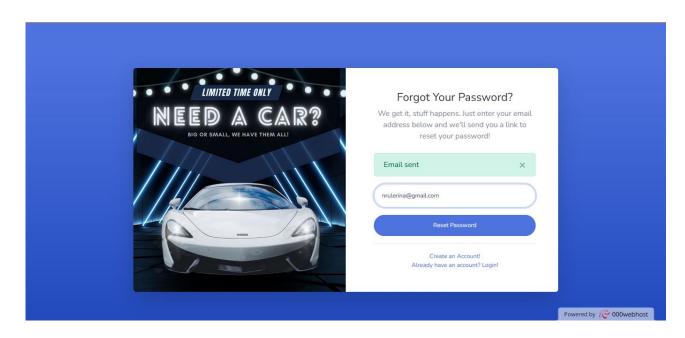
Alert will pop up once Password and Confirm Password do not match:

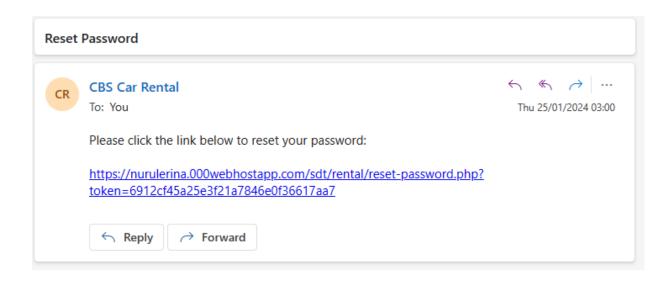


Login:

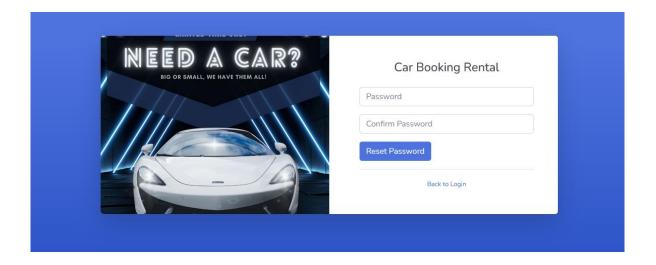


Forgot Password:



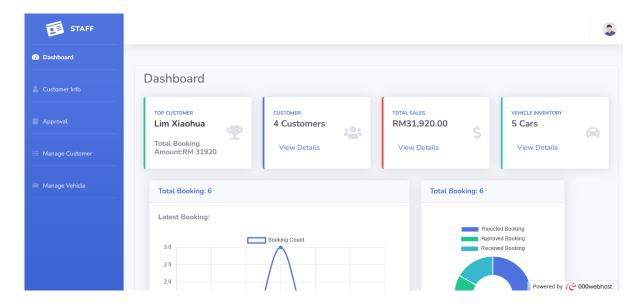


Reset Password:

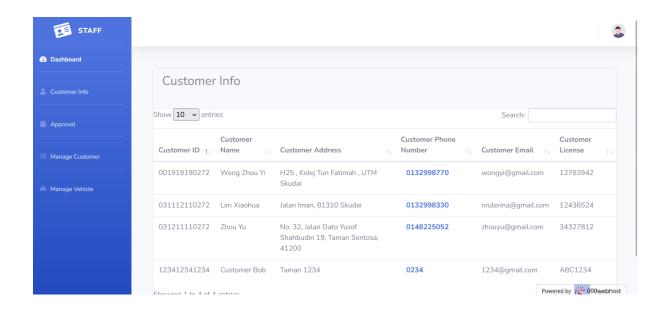


6.3 Staff

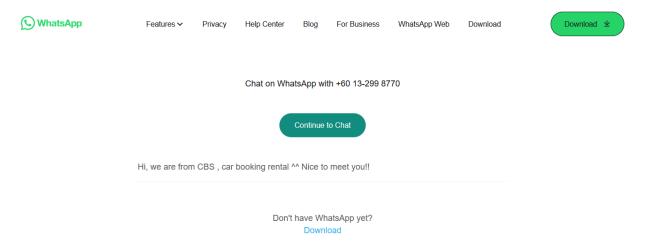
Dashboard:



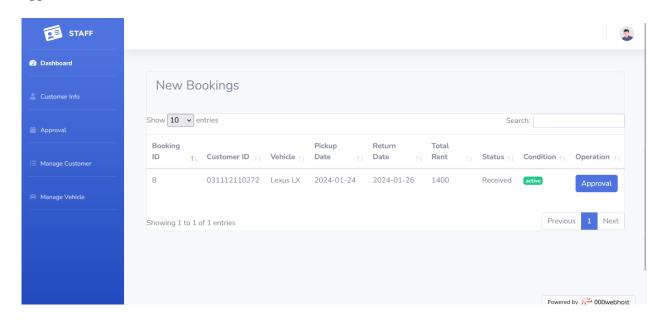
Customer Info:

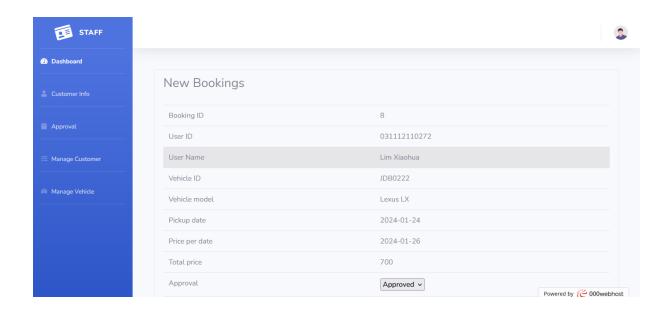


Click on customer's phone number, The system will navigate to WhatsApp. Once there, an automatic message will be sent, saying: `Hi, we are from CBS, car booking rental ^^ Nice to meet you!!`

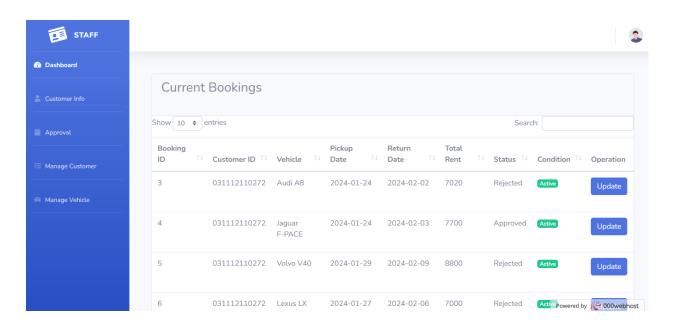


Approval:

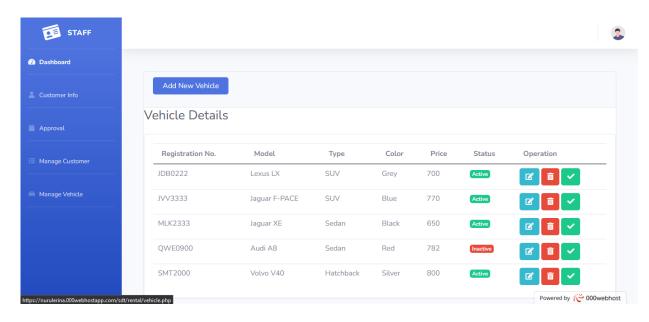




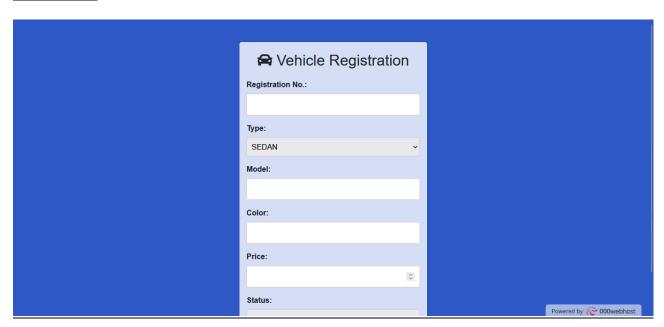
Booking Details:

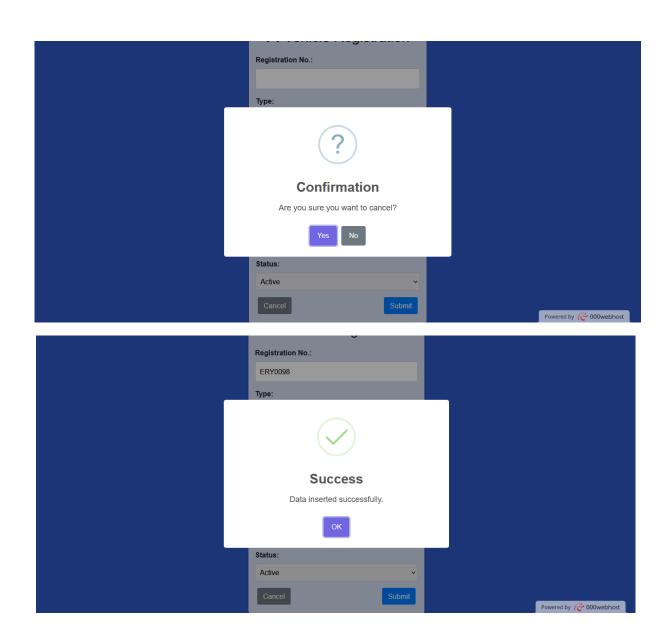


Manage Vehicle:

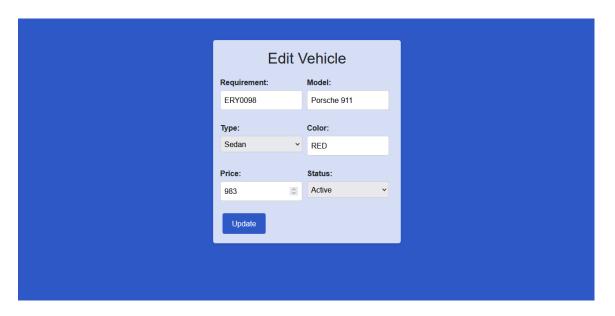


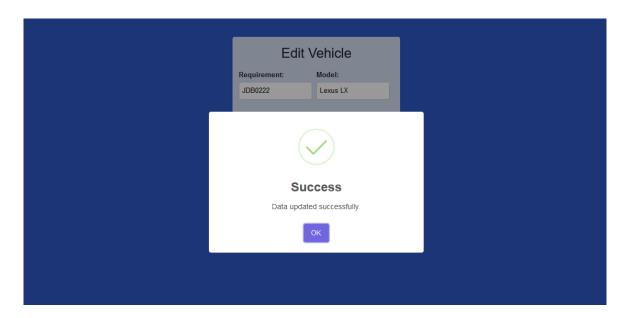
Add Vehicle:



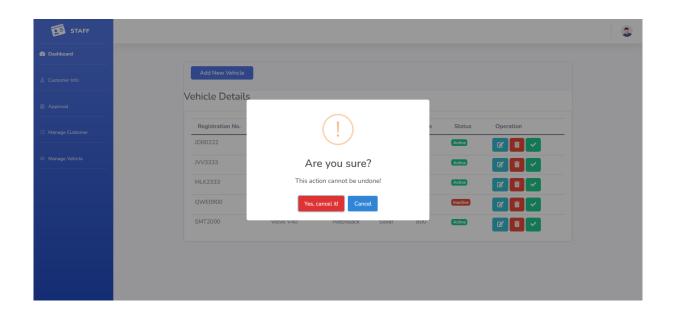


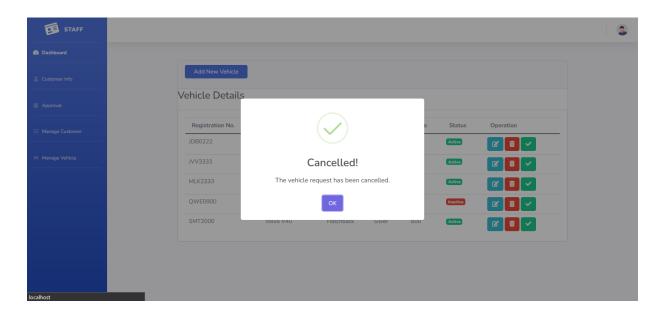
Edit Vehicle:



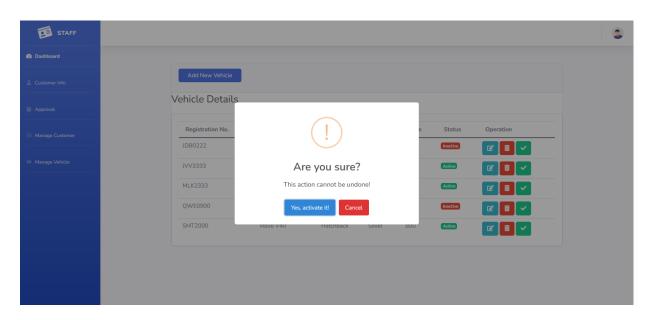


Delete Vehicle:

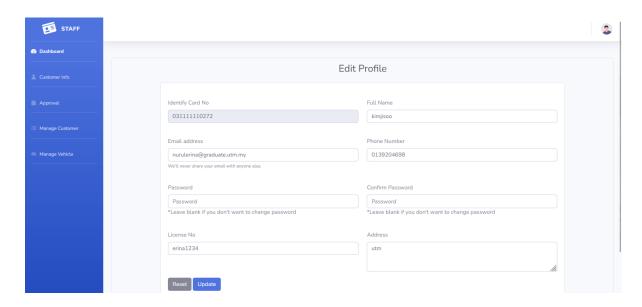




Activate Vehicle:

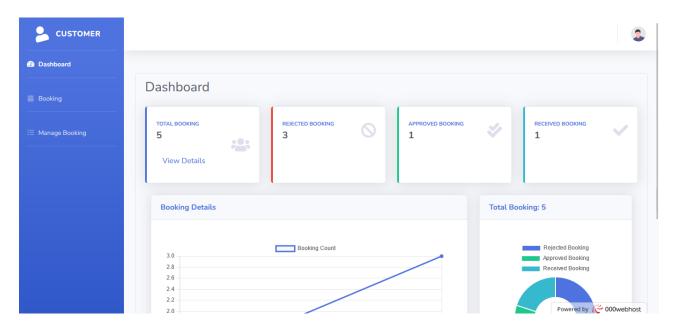


Edit Profile:

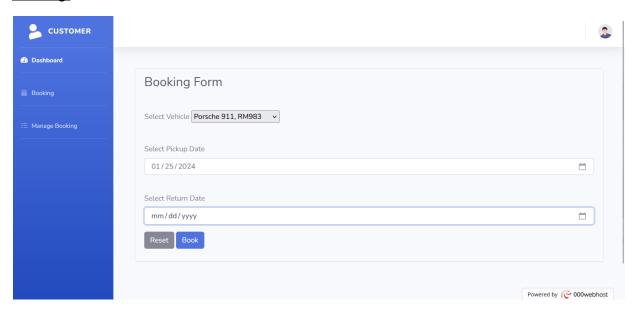


6.4 Customer

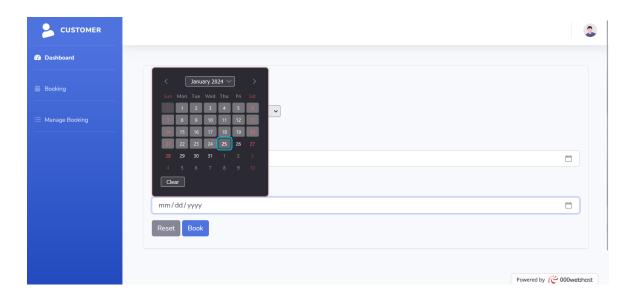
Dashboard:



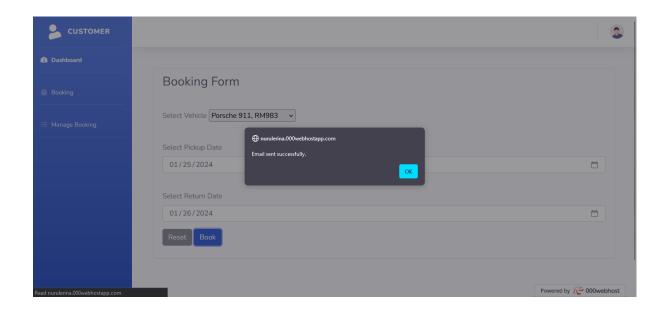
Booking:

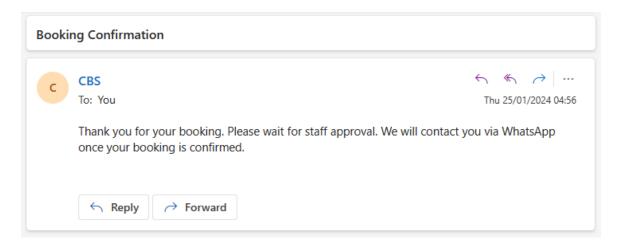


The system does not allow to select return date before pick up date:

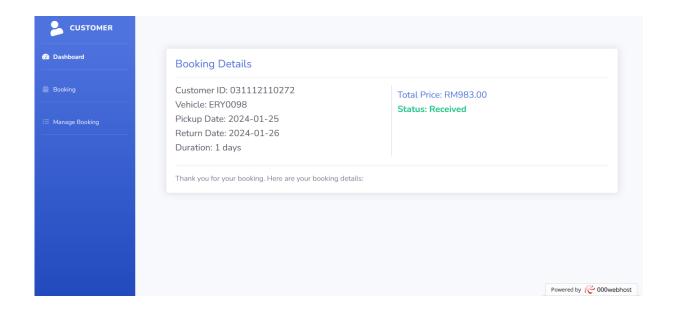


Confirmation booking Gmail notification:

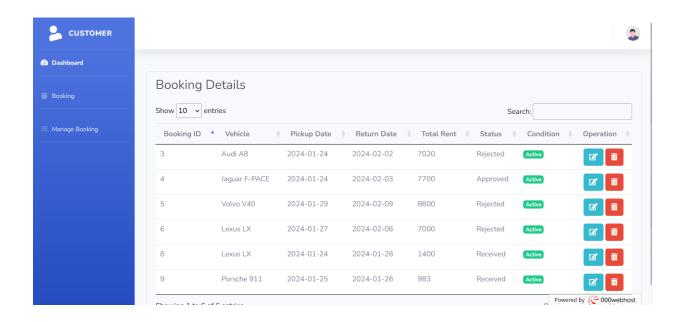




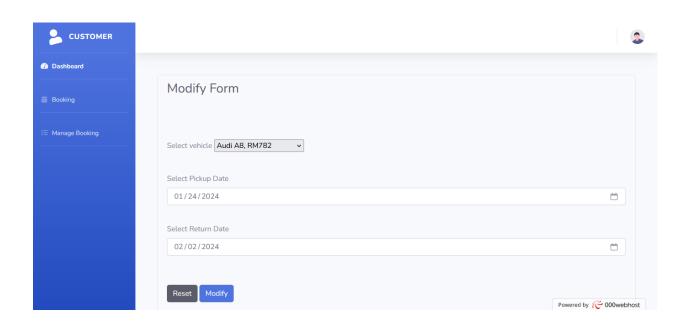
Booking Details:



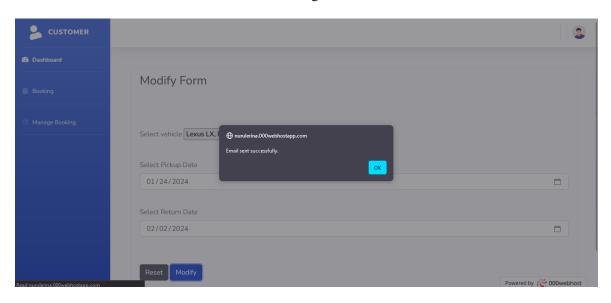
Manage Booking:

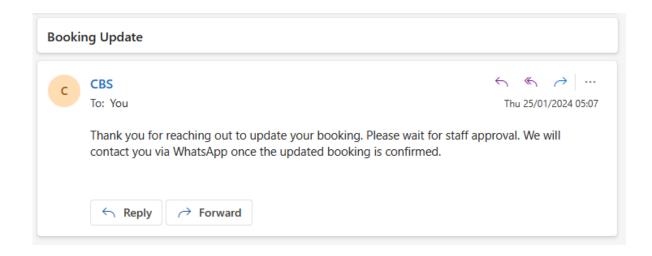


Modify Booking:

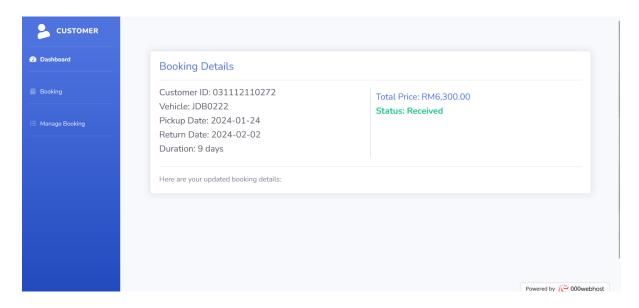


Confirmation booking Gmail notification:

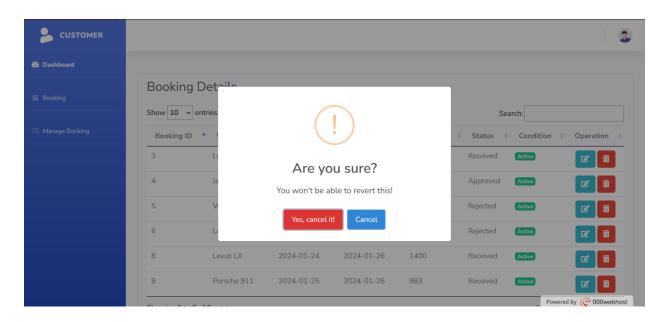




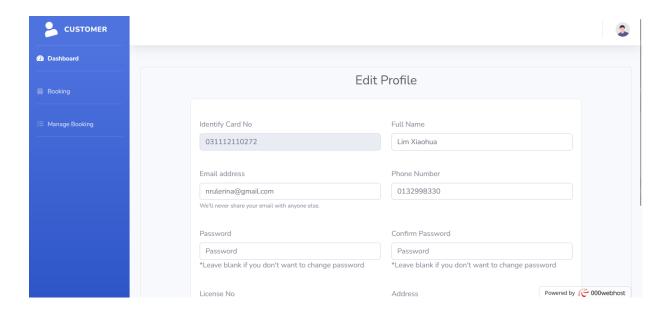
Updated Booking Details:



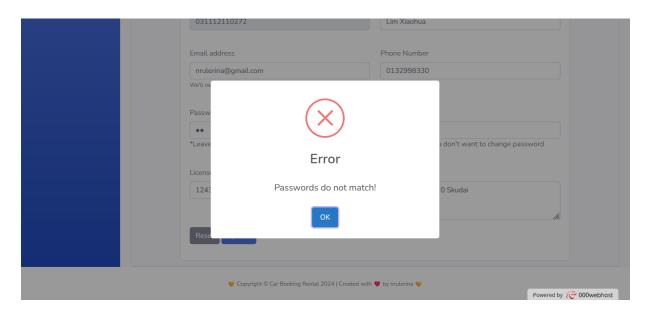
Delete Booking:



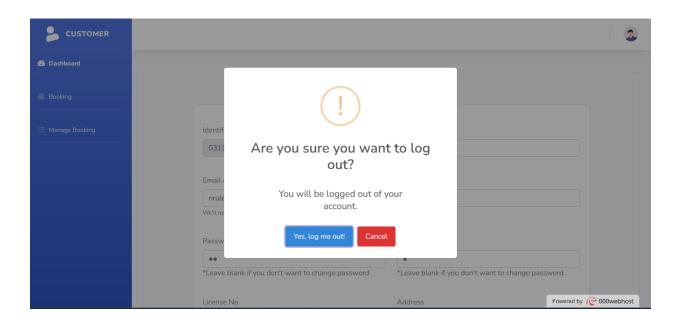
Edit Profile:



Alert pop up once confirm password and password do not match



6.5 Log Out



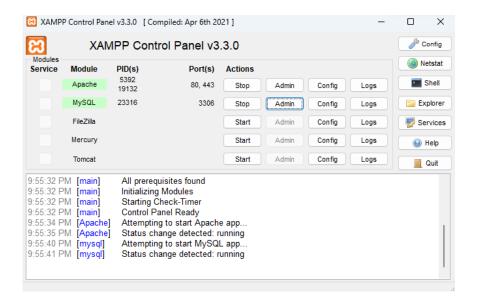
7. Localhost Setup

http://127.0.0.1/sdt/

1. Download Local Server Environment



2. Start Local Server

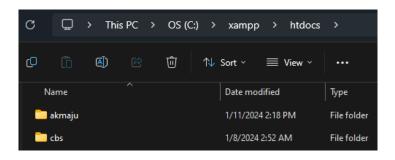


3. Verify Setup: http://localhost

Index of /



4. Document Root: C:\xampp\htdocs



8. URL

Web Hosting : Link

Local Host : Link

9. User credentials

Web Hosting	IC Number	Password
Customer	031112110272	@lim1234
Staff	031111110272	@wong1234

Local Host	IC Number	Password
Customer	031112110272	@lim1236
Staff	031111110272	@wong1234