Project Title: Vehicle Booking and Maintenance System (E-Vehicle)
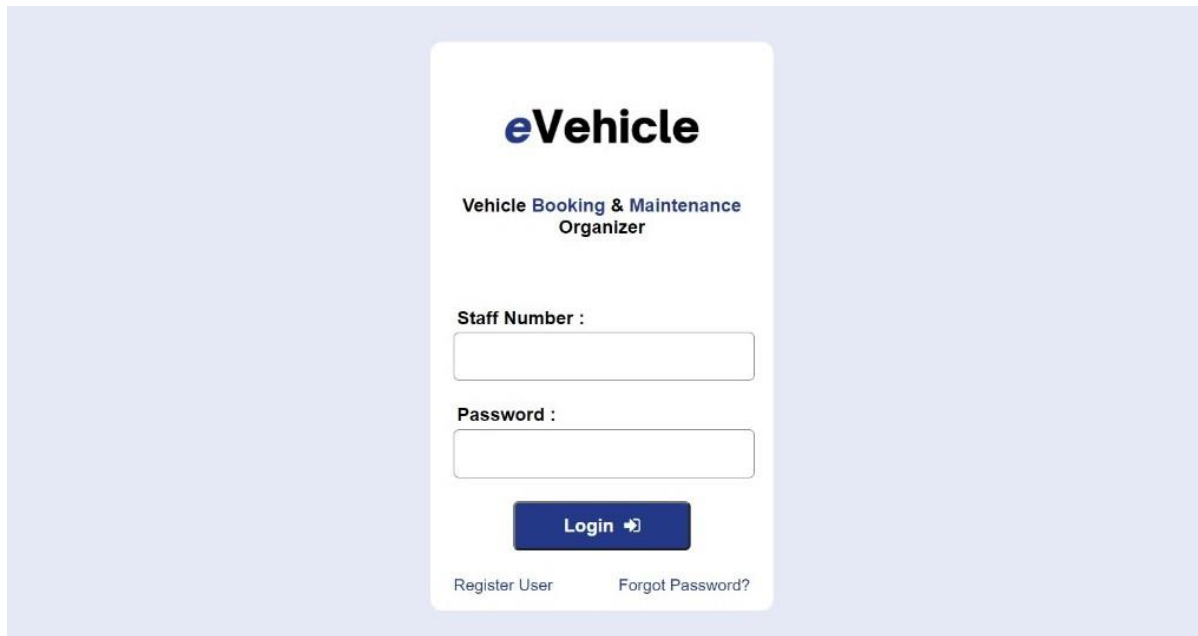
Description: E-Vehicle is an intuitive web-based application developed in PHP and Java, designed to simplify vehicle booking and maintenance processes for organizations and institutions. It offers a seamless user experience and robust functionality to optimize vehicle management, improve operational efficiency, and ensure resource utilization.

Key Features:

- **User Management:** Admin have full control over user accounts, allowing them to manage permissions, roles, and access levels for enhanced security.

- **Vehicle Management:** Admin can effortlessly manage vehicle information, including adding, viewing, searching, updating, and deleting vehicles as needed.

- **Booking Management:** Head of Divisions can view all bookings that needs approval and efficiently manage booking requests.

- **Maintenance Management:** Drivers can log trip mileage via the mobile app, triggering automatic maintenance reminders for admin.

- **Vehicle Booking:** Staffs can easily check vehicle availability, make bookings, and specify details such as date, time, and duration. The system automates the search for available vehicles based on criteria.

- **User Feedback:** Staffs have the option to provide feedback on vehicle usage, allowing admin to review and implement improvements.

- **Profile Management:** Staffs can easily update their profile information, ensuring that their details are always up-to-date.
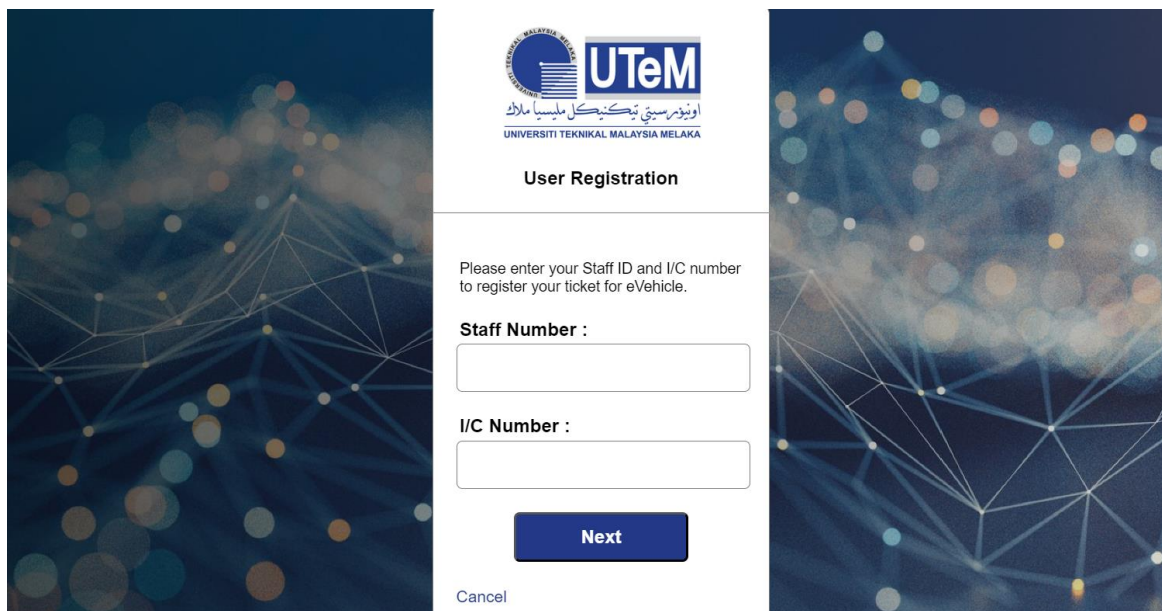
Skills: HTML/CSS, JavaScript, PHP, Java, MySQL

Screenshots:

Figure 1: Users need to login using staff number and password.

Figure 2: Users will need to register first if they do not have an account yet.

Figure 3: If users login as admin, they will see this home page.

Figure 4: Admins can add new user to the system by inserting required information.

Figure 5: Admins can view list of users.

Figure 6: Admins can view information for existing user and update user status either active or inactive.

Figure 7: Admins can register vehicle to the system by inserting required information.

Figure 8: Admins can view list of vehicles.

Figure 9: Admins can view list of vehicle booking applications.

Figure 10: Admins need to update booking status either accept or reject.

Figure 11: If admins accept the request, Head of Divisions can view the booking application to proceed with final approval.

Figure 12: Head of Divisions need to update booking status either approve or disapprove.

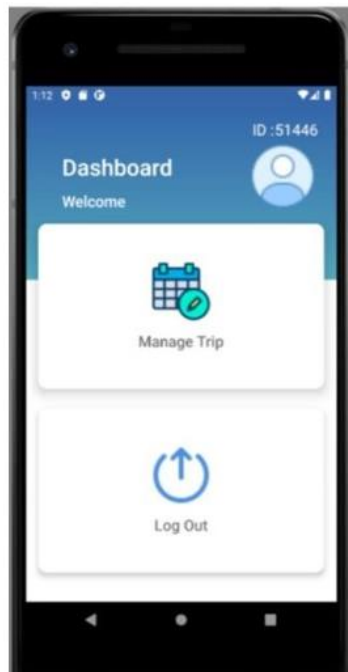Figure 13: Drivers need to login using staff id and password.

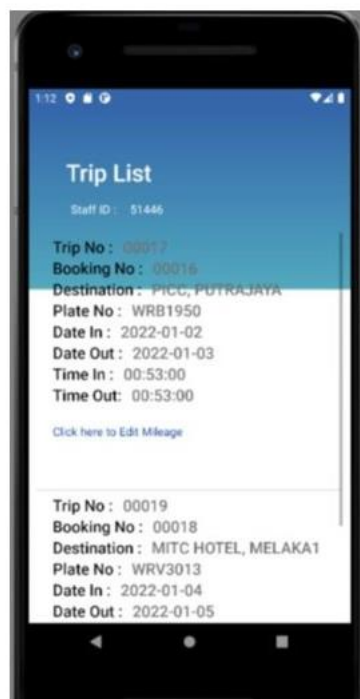Figure 14: After login, drivers will see this home page.

Figure 15: Drivers can view their trip list and check trip's schedule.
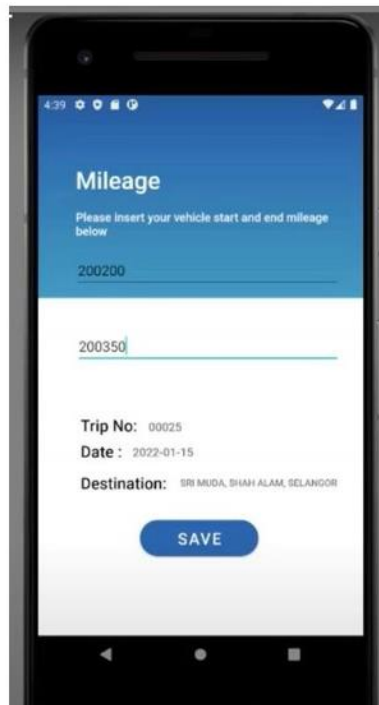
Figure 16: Drivers need to update mileage after each trip. The system will automatically calculate the kilometre travelled.
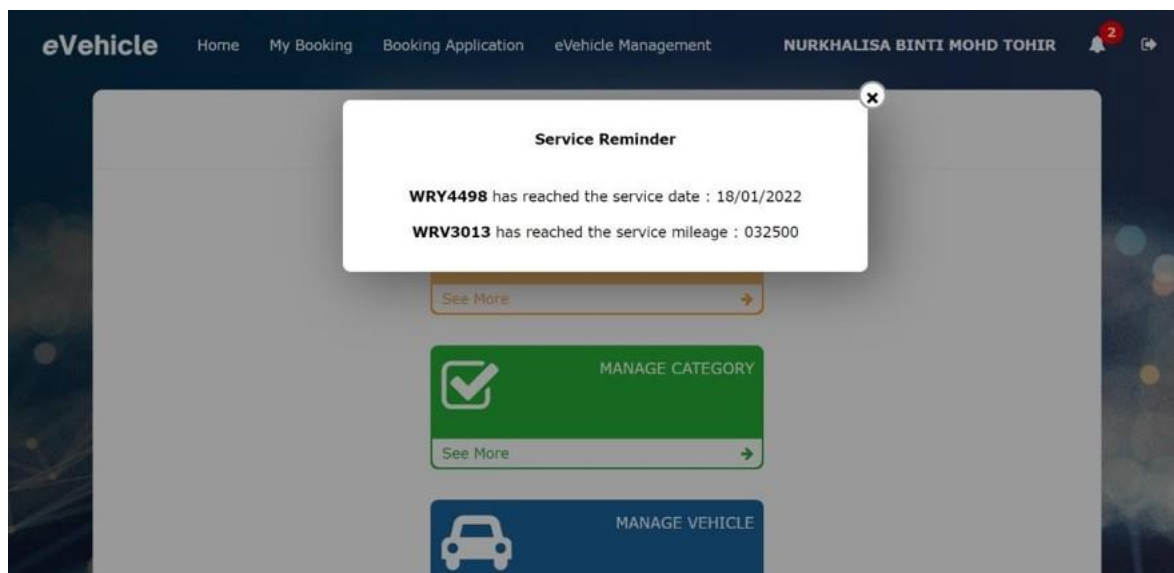

Figure 17: The system sends reminders to admin when vehicles reach service milestones.

List of Services

Search..

No.	Category	Plate no	Model	Service Date	Service Mileage	Next Date	Next Mileage	Action
1	CAR	WRY1529	HONDA CITY	01/01/2022	110255	01/08/2022	120255	View Update Delete
2	BUS	HRE5119	MITSUBISHI	15/01/2022	100123	26/07/2022	110123	View Update Delete
3	VAN	WTB2131	TOYOTA	17/12/2021	015200	17/06/2022	025200	View Update Delete
4	VAN	WRB1950	TOYOTA HIACE	20/12/2021	010580	20/06/2022	020580	View Update Delete
5	CAR	WRY4498	TOYOTA HYLUX	26/06/2021	022400	18/01/2022	032400	View Update Delete
6	CAR	WPQ2787	TOYOTA HYLUX	05/01/2022	011000	05/07/2022	021000	View Update Delete
7	CAR	WRV3013	PROTON PREVE	17/07/2021	022500	29/01/2022	032500	View Update Delete
8	CAR	MBC1234	TOYOTA	18/01/2022	015800	18/07/2022	025800	View Update Delete

Figure 18: Admins can track service history.

eVehicle   Home   My Booking   Booking Application   eVehicle Management   NURKHALISA BINTI MOHD TOHIR

Update Service Form

Plate Number :

WRY1529

Service Date :

01/01/2022

Service Mileage :

110255

Next Date :

01/08/2022

Next Mileage :

120255

**Please make sure all information are correct

☑ I acknowledge that all information are correct.

BACK   UPDATE   RESET

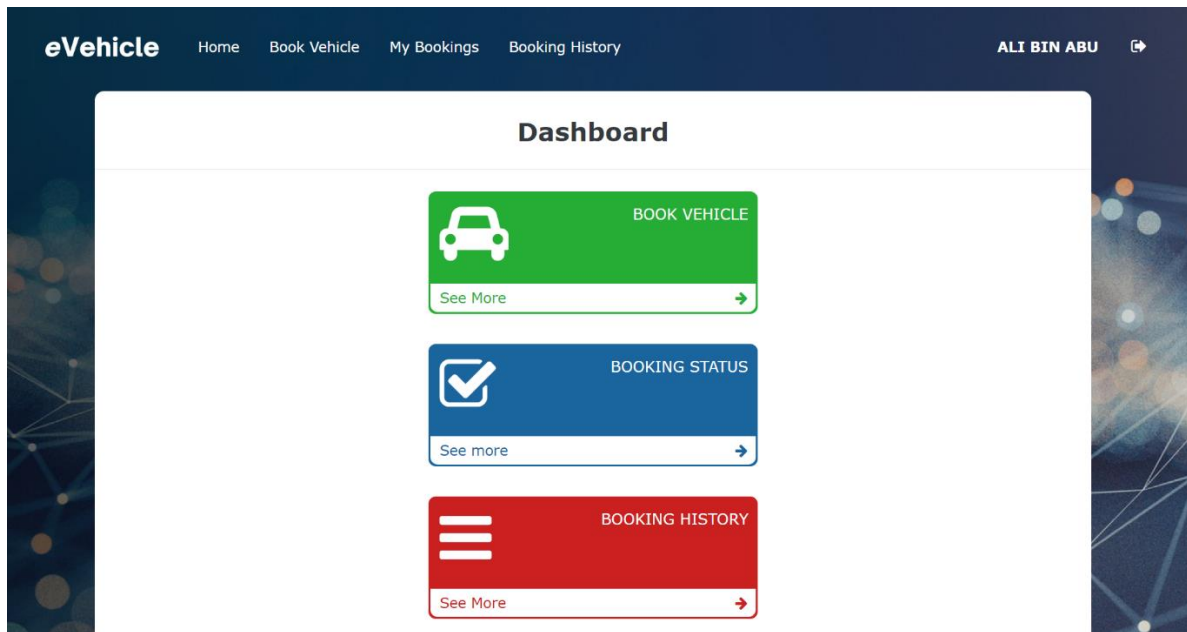Figure 19: Admins can update service date and mileage.

Figure 20: If user login as staff, they will see this home page.

Figure 21: Staffs can request booking application by inserting required information. The system will suggest vehicle type based on the number of passenger.

Figure 22: Staffs can view their booking application history.

Figure 23: Staffs can provide feedback on vehicle usage after each trip.

Figure 24: Staffs can update their profile information.

Conclusion: E-Vehicle offers a comprehensive solution to streamline vehicle management and maintenance tasks. With its user-friendly interface and powerful features, it empowers organizations and institutions to optimize their operations, improve efficiency, and enhance overall productivity.