

Project Title: Vehicle Booking and Maintenance System (E-Vehicle)

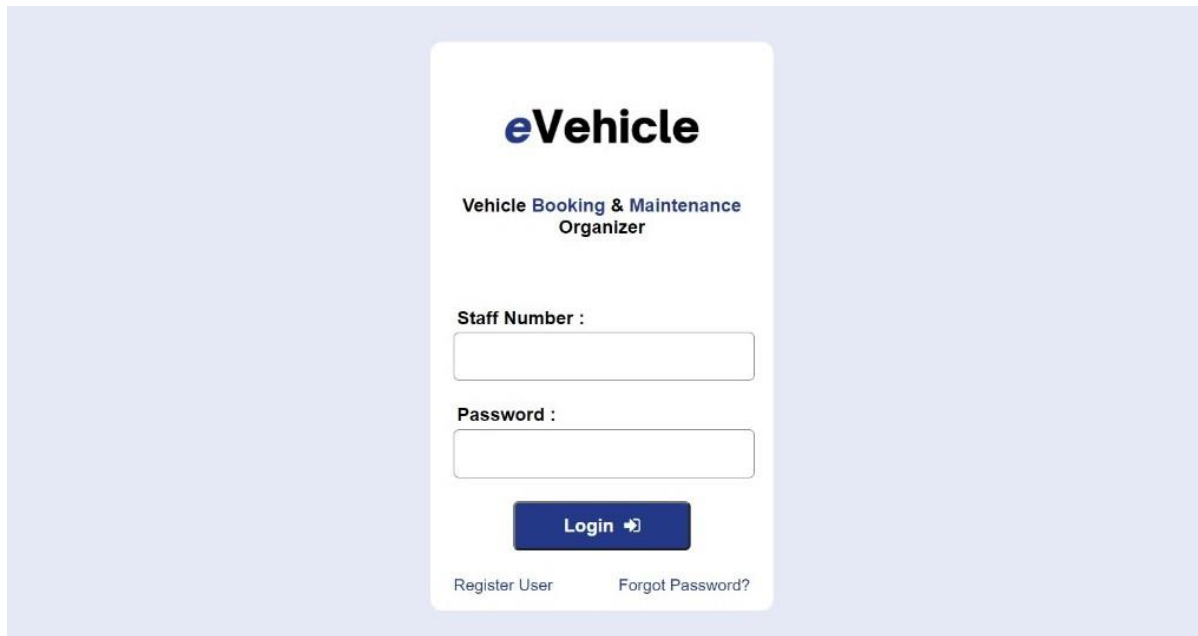
Description: E-Vehicle is an intuitive web-based application developed in PHP and Java, designed to simplify vehicle booking and maintenance processes for organizations and institutions. It offers a seamless user experience and robust functionality to optimize vehicle management, improve operational 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.

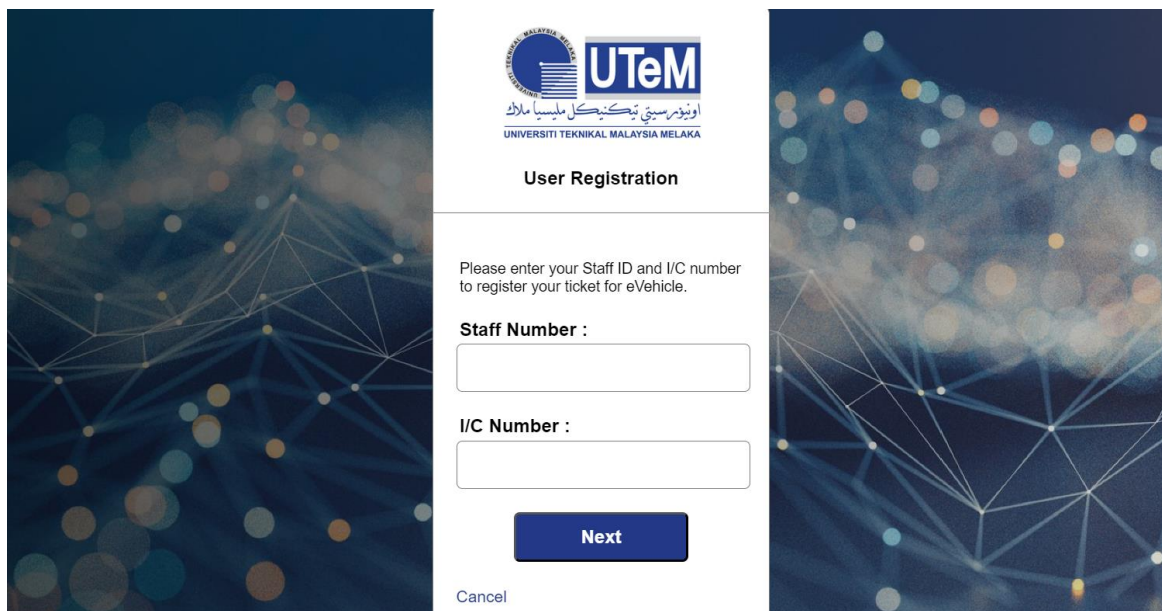
Skills: HTML/CSS, JavaScript, PHP, Java, MySQL

Screenshots:



The screenshot shows the login interface for the eVehicle system. At the top, the logo 'eVehicle' is displayed in a bold, black font. Below it, the text 'Vehicle Booking & Maintenance Organizer' is centered. The login form consists of two input fields: 'Staff Number :' and 'Password :'. Below these fields is a blue 'Login' button with a right-pointing arrow. At the bottom of the form, there are two links: 'Register User' and 'Forgot Password?'.

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



The screenshot shows the user registration interface. At the top, the UTeM logo is displayed, featuring the university's name in English ('UNIVERSITI TEKNIKAL MALAYSIA MELAKA') and Malay ('اوتوهرسيطي تيككنيكل ماليسيا ملاك'). Below the logo, the title 'User Registration' is centered. The registration form includes a prompt: 'Please enter your Staff ID and I/C number to register your ticket for eVehicle.' This is followed by two input fields: 'Staff Number :' and 'I/C Number :'. Below these fields is a blue 'Next' button. At the bottom left of the form, there is a 'Cancel' link. The background of the registration screen features a dark blue, abstract geometric pattern with glowing nodes and lines.

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

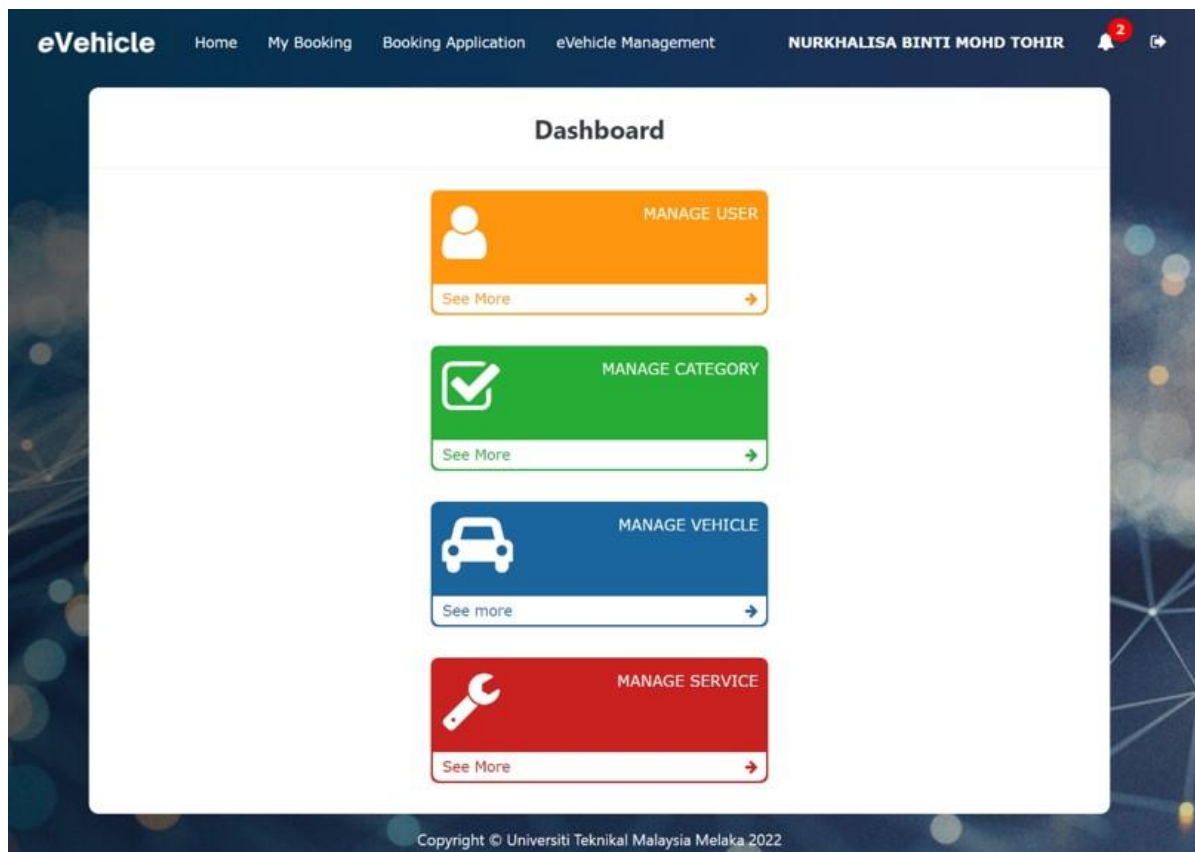


Figure 3: If users login as admin, they will see this home page.

eVehicle
Home
My Booking
Booking Application
eVehicle Management
NURKHALISA BINTI MOHD TOHIR
2

Add User Form

ID No :

IC No :

Name :

Position :

Department :

Email :

Phone No :

Office No :

Category:

-- Select Category --

Status:

INACTIVE

☐ I acknowledge that all information are correct.

SUBMIT

RESET

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

List of Users								
Search..								
No.	ID No	IC No	Name	Department	Email	Office No	Status	Action
1	10079	000919100796	ALI BIN ABU	STRATEGIC INFORMATION TECHNOLOGY DIVISION	ali@gmail.com	0320203010	ACTIVE	<button>View</button>
2	10080	000919041007	MARIA LEE	STRATEGIC INFORMATION TECHNOLOGY DIVISION	maria@gmail.com	0319101080	ACTIVE	<button>View</button>
3	10373	691221042134	KAMARUDIN ABDULLAH	SERVICE MANAGEMENT UNIT	fejar@mcmc.gov.my	0320203175	ACTIVE	<button>View</button>
4	11234	861121302553	MUHAMMAD RAZALI ANUAR	STRATEGIC INFORMATION TECHNOLOGY DIVISION	razali@gmail.com	0320203010	INACTIVE	<button>View</button>
5	12345	000815056788	NUR HIDAYAH BINTI ALI	MIS	hidayah@mcmc.gov.my	032023367	INACTIVE	<button>View</button>

Figure 5: Admins can view list of users.

eVehicle

Home

My Booking

Booking Application

eVehicle Management

NURKHALISA BINTI MOHD TOHIR

1

View User

ID No :

10079

IC No :

000919100796

Name :

ALI BIN ABU

Position :

PROJECT MANAGER

Department :

STRATEGIC INFORMATION

Email :

ali@gmail.com

Phone No :

0116119080

Office No :

0320203010

Category:

1

Status:

INACTIVE

☒ I acknowledge that all information are correct.

UPDATE

BACK

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

eVehicle
Home
My Booking
Booking Application
eVehicle Management
NURKHALISA BINTI MOHD TOHIR
2

Register Vehicle Form

Category
Capacity :

-- Select Category --

Plate Number :

Model :

Status:

-- Select Status --

Current Mileage :

☐ I acknowledge that all information are correct.

SUBMIT
RESET

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

Search..							
No.	Category	Plate no	Model	Capacity	Status	Current Mileage	Action
1	CAR	VAT1450	PROTON PREVE	4	AVAILABLE	005000	View Update
2	CAR	WRV3013	PROTON PREVE	4	AVAILABLE	035555	View Update
3	CAR	WRY1529	HONDA CITY	4	AVAILABLE	001250	View Update
4	CAR	WJV8385	TOYOTA HYLUX	4	AVAILABLE	005250	View Update
5	CAR	WPQ2787	TOYOTA HYLUX	4	AVAILABLE	011076	View Update
6	CAR	WRY4498	TOYOTA HYLUX	4	AVAILABLE	022250	View Update
7	CAR	MBC1234	TOYOTA	5	NOT AVAILABLE	015000	View Update
8	VAN	WTB2131	TOYOTA	10	AVAILABLE	015670	View Update
9	VAN	WRB1950	TOYOTA HIACE	10	AVAILABLE	010500	View Update
10	VAN	WQD9023	TOYOTA HIACE	10	AVAILABLE	000250	View Update
11	BUS	HRE5119	MITSUBISHI	40	NOT AVAILABLE	010000	View Update

Figure 8: Admins can view list of vehicles.

eVehicle

HomeMy BookingBooking ApplicationeVehicle Management

NURKHALISA BINTI MOHD TOHIR

2

Vehicle Booking List

No.	Date of Booking	Staff Name	Destination	Reason	Trip Date	Booking Status	
1	16/01/2022	SHARIFAH AMIRA BINTI SALIM	MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATION, PUTRAJAYA	MEETING	20/01/2022 - 20/01/2022	PROCESSING	➔
2	16/01/2022	NOR SAIDATUL HURIAH BT SHAHARUDIN	MITC HOTEL, MELAKA	TUTOR EVENT	24/01/2022 - 26/01/2022	PROCESSING	➔
3	16/01/2022	NOORSYUHADA BINTI ABDUL SAMAD	PICC, PUTRAJAYA	EVENT	02/02/2022 - 02/02/2022	PROCESSING	➔

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

eVehicle													
Home		My Booking		Booking Application		eVehicle Management							
NURKHALISA BINTI MOHD TOHIR													
Vehicle Booking Details													
Booking Number :		Staff ID :		Departure Date :		Return Date :							
00026		15926		20/01/2022		20/01/2022							
Staff Name :				Departure Time :		Return Time :							
SHARIFAH AMIRA BINTI SALIM				07:00 AM		04:00 PM							
Department :				Destination :									
NETWORK SECURITY DIVISION				MINISTRY OF SCIENCE, TECHNOLOGY AND INNOV									
Position :				Reason :									
DIRECTOR				MEETING									
Email :				Number of Passenger :		Vehicle Type Preference :							
amira@mcmc.gov.my				2		CAR							
Extension Phone Number :				<table> <tr> <th>Plate No.</th><th>Vehicle Type</th><th>Model</th></tr> <tr> <td>VAT1450</td><td>CAR</td><td>PROTON PREVE</td></tr> </table>				Plate No.	Vehicle Type	Model	VAT1450	CAR	PROTON PREVE
Plate No.	Vehicle Type	Model											
VAT1450	CAR	PROTON PREVE											
0320203010				Booking Status : <input type="radio"/> Accept <input type="radio"/> Reject									
				<div>Back Submit</div>									

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

eVehicle


Home

Book Vehicle

My Bookings

eVehicle Management

KAMARUDIN ABDULLAH



Vehicle Booking Application

No.	Date of Booking	Staff Name	Destination	Reason	Trip Date	Booking Status	
1	11/01/2022	ALI BIN ABU	FTMK	WORKSHOP 2 SHOWCASE	15/01/2022 - 15/01/2022	ACCEPTED	➔

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

eVehicle
Home
Book Vehicle
My Bookings
eVehicle Management
KAMARUDIN ABDULLAH

Vehicle Booking Details

Booking Number :
00024
Staff ID :
10079

Staff Name :
ALI BIN ABU

Department :
STRATEGIC INFORMATION TECHNOLOGY DIVISION

Position :
PROJECT MANAGER

Email :
ali@gmail.com

Extension Phone Number :
0320203010

Departure Date :
15/01/2022
Return Date :
15/01/2022

Departure Time :
08:00 AM
Return Time :
01:00 PM

Destination :
FTMK
Reason :
WORKSHOP 2 SHOWCASE

Number of Passenger :
6
Vehicle Type Preference :
CAR

Plate No.	Vehicle Details	Driver	Phone No.
VAT1450	PROTON PREVE (CAR)	SALLEH BIN MOHAMED	0193387969
WRV3013	PROTON PREVE (CAR)	HALIM BIN ZAHARI	0179891303

Booking Status :
☐ Approve
☐ Disapprove

Back
Submit

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

E-Vehicle

Staff ID
Enter Staff ID

Enter Password

LOGIN

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

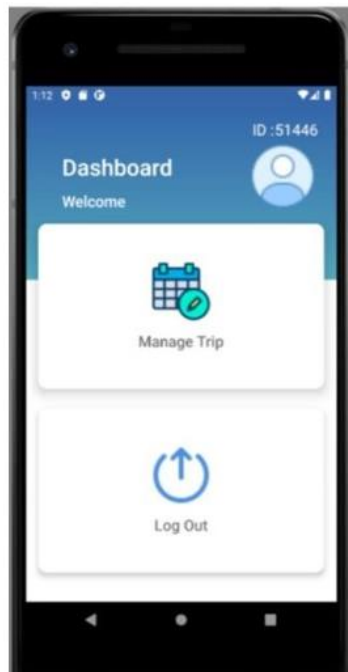


Figure 14: After login, drivers will see this home page.

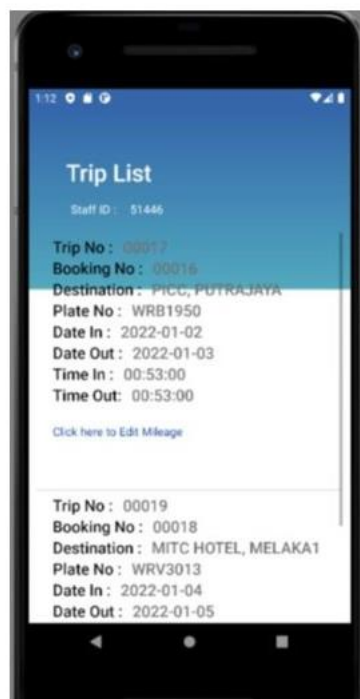


Figure 15: Drivers can view their trip list and check trip's schedule.

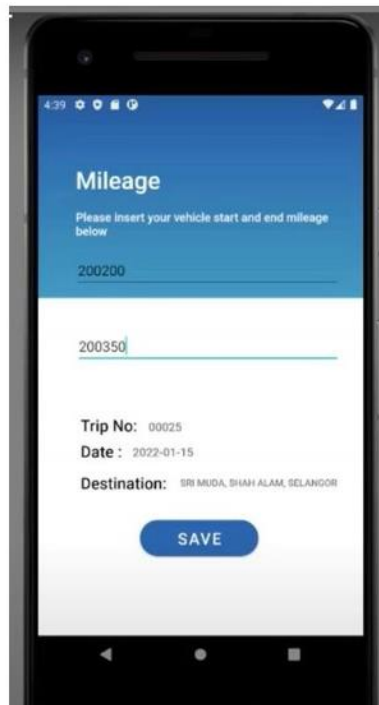


Figure 16: Drivers need to update mileage after each trip. The system will automatically calculate the kilometre travelled.

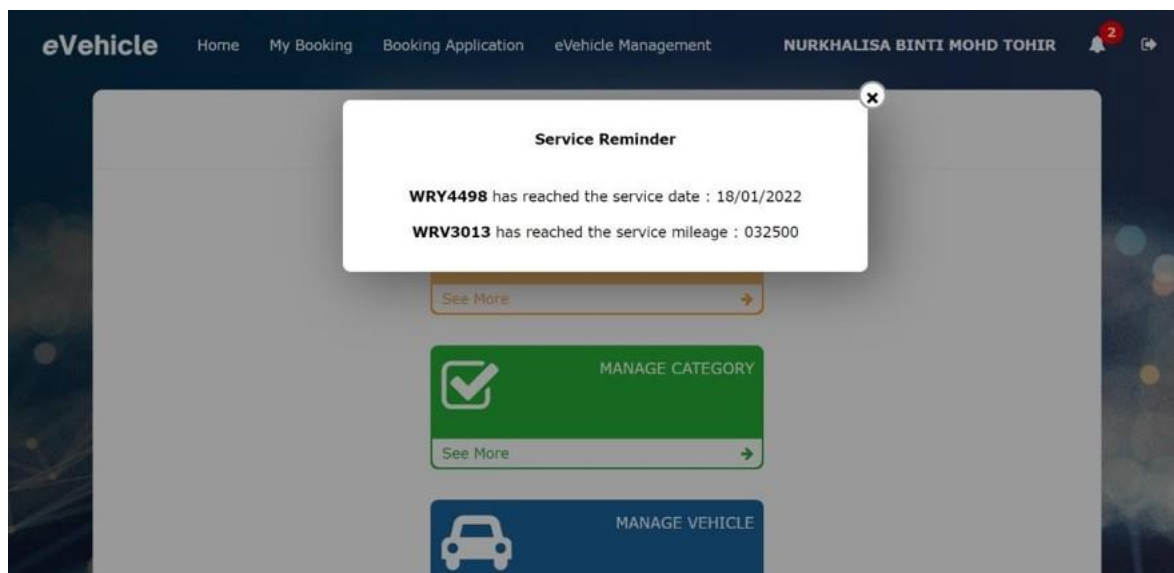


Figure 17: The system sends reminders to admin when vehicles reach service milestones.

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

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[eVehicle Management](#)

NURKHALISA BINTI MOHD TOHIR

2

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.

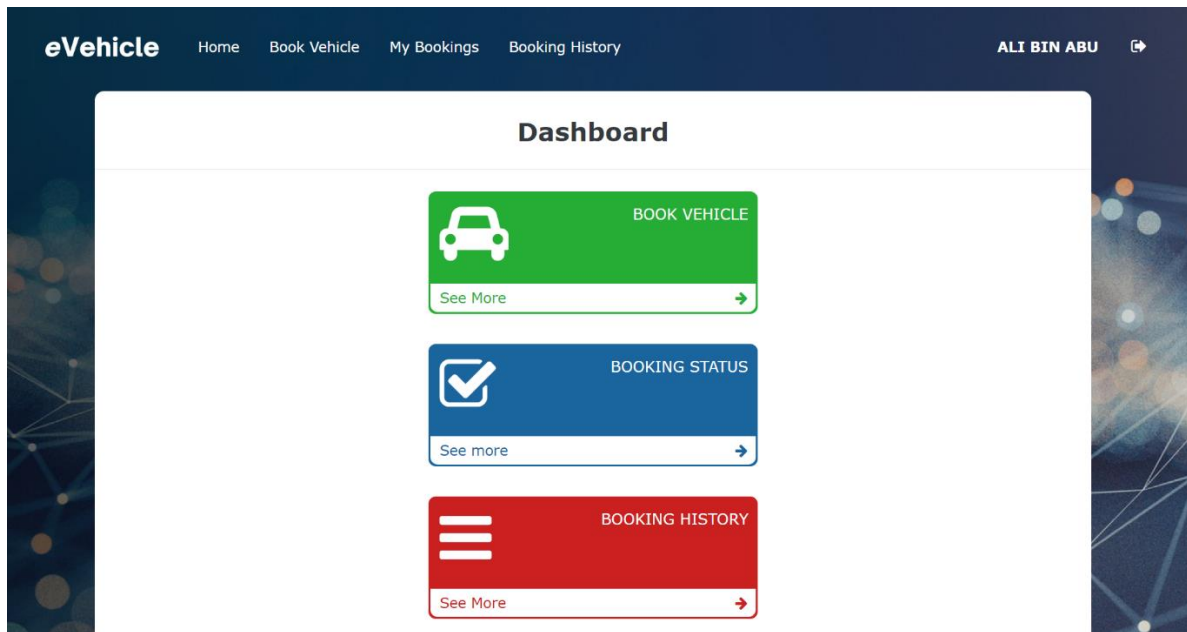


Figure 20: If user login as staff, they will see this home page.

The screenshot shows the eVehicle Vehicle Booking Application form. The header is the same as Figure 20. The form is titled "Vehicle Booking Application" and contains the following fields:

- Staff ID :** Text input field with value "10079".
- I/C Number :** Text input field with value "000919100796".
- Departure Date :** Date picker field with value "dd/mm/yyyy".
- Return Date :** Date picker field with value "dd/mm/yyyy".
- Departure Time :** Time picker field with value "--:-- --".
- Return Time :** Time picker field with value "--:-- --".
- Destination :** Text input field.
- Reason :** Text input field.
- Number of Passenger :** Text input field.
- Preference of Vehicle Type :** Dropdown menu.

Below the form fields, there is a checkbox labeled "I acknowledge that I have been instructed to carry out official duties outside the office." and two buttons: "RESET" and "SUBMIT".

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

eVehicle

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ALI BIN ABU

Booking Application History

View Booking From : To :

No.	Date of Booking	Destination	Reason	Trip Date	Booking Status		
1	15/01/2022	MCMC, CYBERJAYA	MEETING	17/01/2022 - 18/01/2022	APPROVED	→	✓
2	11/01/2022	FTMK	WORKSHOP 2 SHOWCASE	15/01/2022 - 15/01/2022	ACCEPTED	→	
3	10/01/2022	KEMENTERIAN PENGAJIAN TINGGI, PRESINT 5, PUTRAJAYA	MEETING	27/01/2022 - 28/01/2022	REJECTED	→	
4	04/01/2022	SRI MUDA, SHAH ALAM, SELANGOR	SUKARELAWAN BANTUAN BANJIR	12/01/2022 - 15/01/2022	APPROVED	→	✓
5	22/12/2021	MITC HOTEL, MELAKA1	KURSUS	04/01/2022 - 05/01/2022	APPROVED	→	✓
6	09/12/2021	PICC, PUTRAJAYA	KURSUS	02/01/2022 - 03/01/2022	APPROVED	→	✓
7	09/12/2021	MITC HOTEL, MELAKA	KURSUS	02/12/2021 - 22/12/2021	DISAPPROVED	→	
8	09/12/2021	MITC HOTEL, MELAKA	KURSUS	22/12/2021 - 22/12/2021	PROCESSING	→	
9	08/12/2021	HATTEN HOTEL, MELAKA	KURSUS PENGURUSAN MAKLUMAT ANJURAN KPT	22/12/2021 - 22/12/2021	PROCESSING	→	

Figure 22: Staffs can view their booking application history.

eVehicle

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ALI BIN ABU

Vehicle Booking Application

Trip No. : 00025

	Very Unsatisfied	Unsatisfied	Neutral	Satisfied	Very Satisfied
Good punctuality from the time to depart until the time to arrive at the destination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The boarded vehicle is in good condition, safe and clean	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The driver of the vehicle has a good attitude, not drunk and drives carefully throughout the trip	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comments :


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

eVehicle

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ALI BIN ABU

Profile



Staff ID :

10079

I/C Number :

000919100796

Full Name :

ALI BIN ABU

Department :

STRATEGIC INFORMATION TECHNOLOGY DIVISION

Position :

PROJECT MANAGER

Phone Number :

0116119080

Phone Extension Number :

0320203010

Email Address :

ali@gmail.com

Password :

☐ Show Password

Save

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.