

# **Individual Project**

# **Vehicle Booking System**

Programme	:	Bachelor of Computer Science (Data Engineering)	
Subject Code	:	SECP3723	
Subject Name	:	System Development Technology	
Session-Sem	:	2023/2024-1	

Prepared by : Nur Farah Adibah Binti Idris

Matric No. : A22EC0245

Section : 01

Lecturer : Prof. Madya Dr. Haza Nuzly bin Abdull Hamed

Date : 27 January 2024

Link : Link Project

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## 1. System introduction

#### 1.1 System overview

The Vehicle Booking System is designed to simplify vehicle reservations for customers while also ensuring that administrators manage the vehicle inventory efficiently. It is organized around two primary user roles: customers and administrators. Customers can quickly book vehicles, view their reservation history, search for bookings, modify or cancel reservations, and keep their profiles up to date. Admins, on the other hand, have a toolkit for efficiently managing vehicle inventory, processing bookings, and diving into a dashboard packed with helpful information.

#### 1.2 System Users

#### a) Customer

Customers are the primary users of the system who interact with the reservation functionalities, view their booking history, and manage their profiles.

#### b) Admin

Admins have access to functions that involve vehicle management, booking approval, and a dashboard providing an overview of the vehicle inventory and booking information.

# 2. System Design (ERD, Use Case)

## 2.1 Use Case diagram

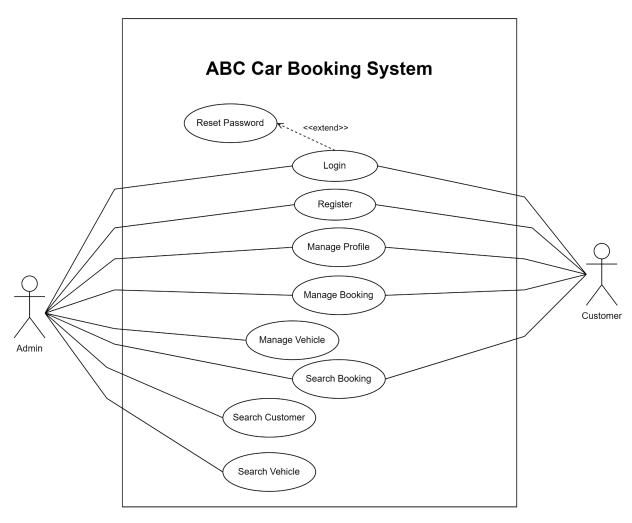


Figure 2.1 Use Case Diagram

## 2.2 Conceptual ERD

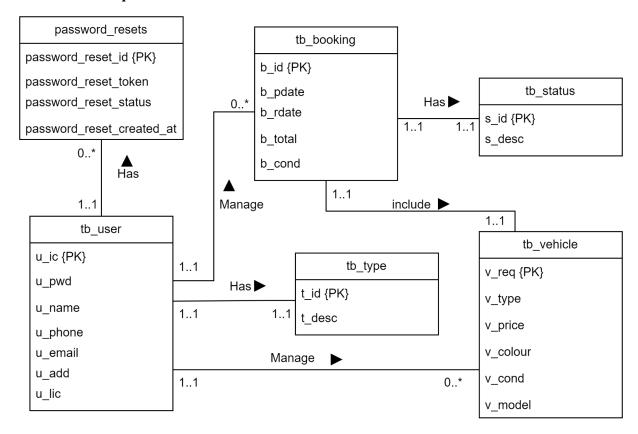


Figure 2.2 Conceptual ERD

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

Aspect	Technology	Description
UML Diagrams	draw.io	draw.io, an adaptable online tool, facilitates the crafting of Unified Modeling Language (UML) diagrams. With support for various diagram types like class and use case diagrams, it serves as an excellent platform for visualizing and planning the architectural components of the Vehicle Booking System.
Database	MySQL (phpMyAdmin)	MySQL, a widely used relational database management system, teams up with phpMyAdmin, a web-based management tool. This duo offers a robust and user-friendly environment for designing, organizing, and manipulating database structures and data within the AK Maju Xpress System.
System Template	Bootstrap https://startbootstra p.com/template/sb- admin#google_vign ette	Leveraging the power of Bootstrap, a dynamic front-end framework, simplifies the creation of responsive and mobile-friendly web interfaces. With its pre-designed components like grids, forms, and navigation bars, Bootstrap ensures the development of visually appealing and consistent user interfaces.
Programming Languages	PHP, HTML, CSS, JavaScript, JSON	The combination of PHP for server-side scripting and HTML, CSS, JavaScript, and JSON for front-end development forms the backbone of the Vehicle Booking System. This ensemble enables the creation of dynamic and interactive web applications, fostering seamless communication between the server and the user's browser.
Hosting Provider	Jimat Hosting	As a dependable web hosting provider, Jimat Hosting offers a variety of hosting services. It provides the essential infrastructure for deploying and running web applications, ensuring their accessibility to users across the internet.

## 4. Database design (phpMyAdmin screenshot)

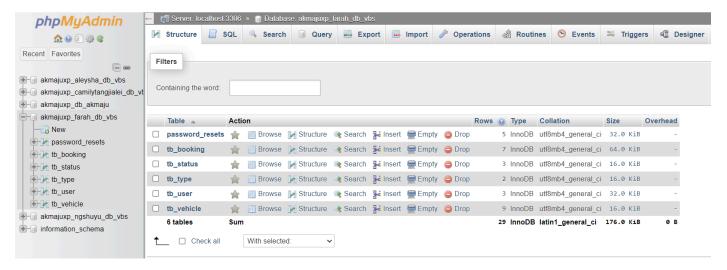


Figure 4.1 phpMyAdmin screenshot

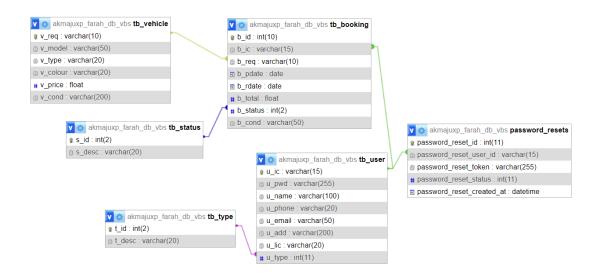


Figure 4.2 Screenshot of the designer in phpMyAdmin

# 5. Development Steps

Step	Phase	Description
1	Requirements Gathering	Identify specific requirements of customers and administrators.  Define core functionalities, such as reservation processes and user roles.
2	System Design	Create Entity Relationship Diagram (ERD) for database structure. Design user interfaces with user-friendly navigation.
3	Database Setup	Implement tables for customers, vehicles, and reservations. Establish relationships between tables.
4	User Authentication and Authorization	Define user roles and set up authorization mechanisms.
5	Reservation Functionality	Develop a reservation process, considering availability and pricing.  Implement modification and cancellation features.
6	Vehicle inventory	Create functionalities for managing vehicle inventory where the admin can make a vehicle inactive or active.
7	User Profiles	Design edit user profile pages with security measures.
8	Develop admin features	Implement an admin dashboard with key metrics.
	Confirmation and Verification	Implement confirmation and verification messages when customers cancel a booking and when staff delete a vehicle.
9	Security Measures	Implement measures to prevent SQL injection.
10	UI Enhancements	Refine UI based on the HCI principle. Ensure responsiveness on different devices.

## 6. System Interface for All Users

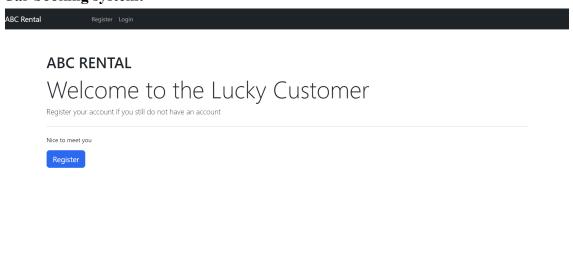
## 6.1 Index page

#### **Index page:**



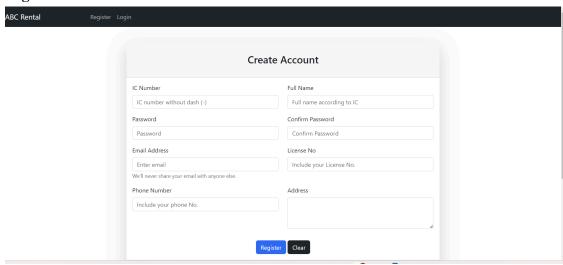
- If click on the "ABC Car Rental System" or "Final Test" on the upper nav bar will navigate to the Car booking system
- If click "Assignment 1" on the upper nav bar will navigate to the assignment 1

#### Car booking system:

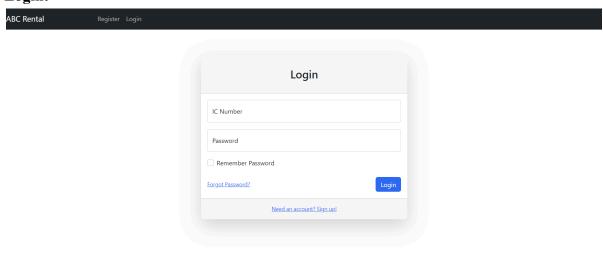


#### 6.2 User Authentication

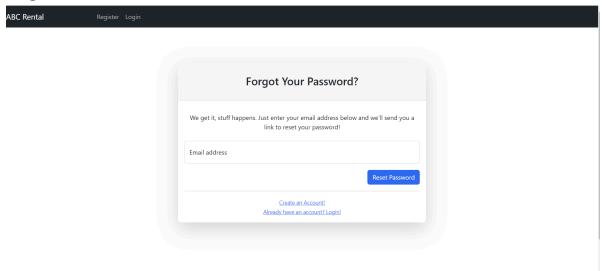
## Register:

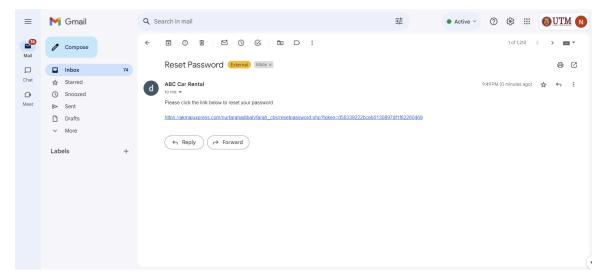


## Login:

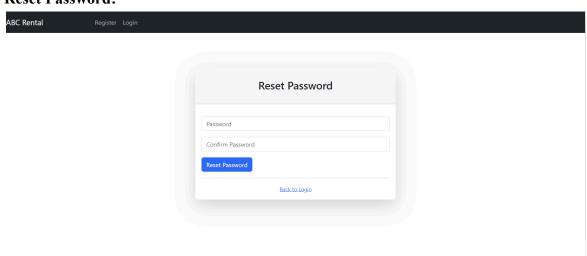


## **Forgot Password:**



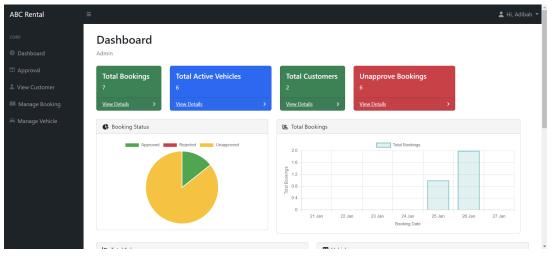


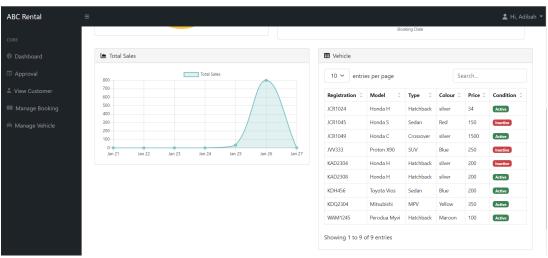
#### **Reset Password:**



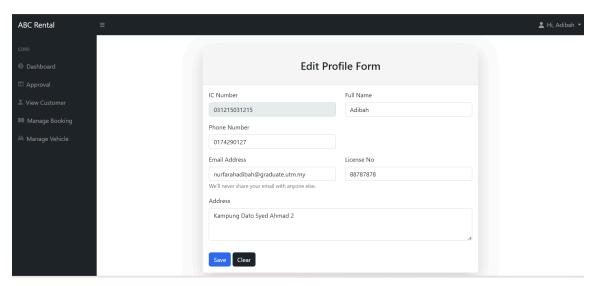
## 6.2 Admin

#### **Admin Dashboard:**

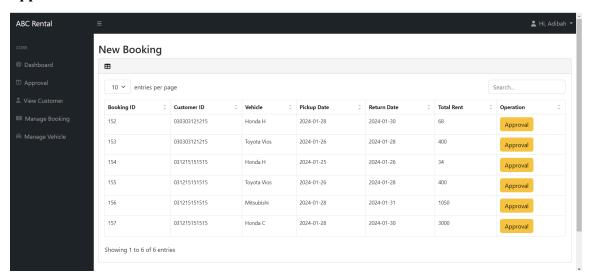


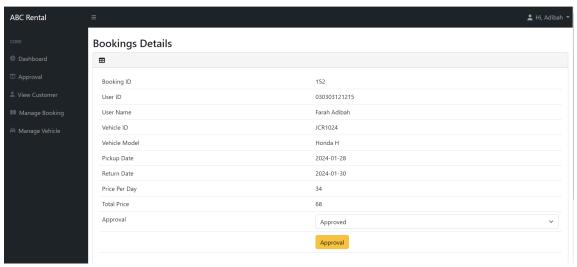


## **Edit Profile:**

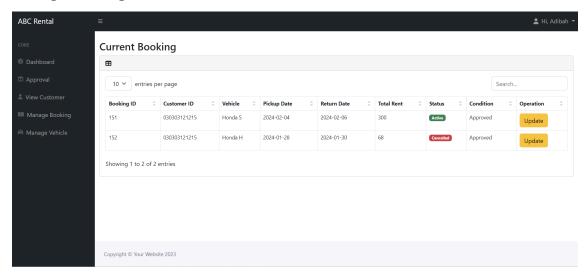


## Approval:

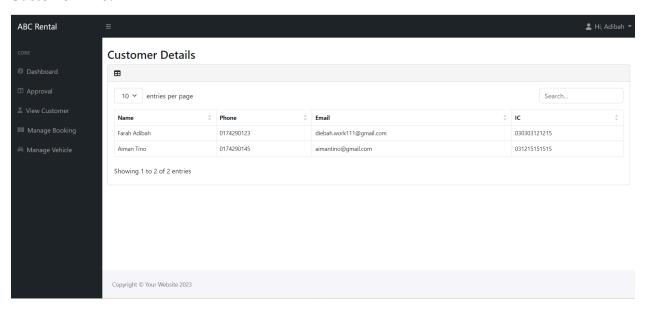




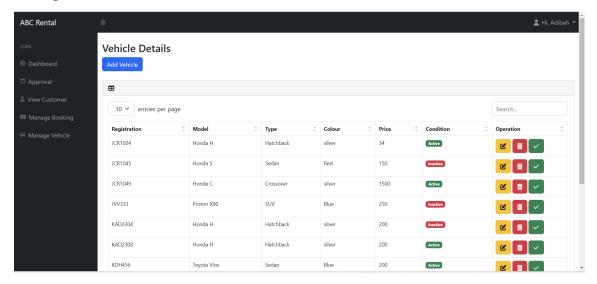
## Manage Booking:



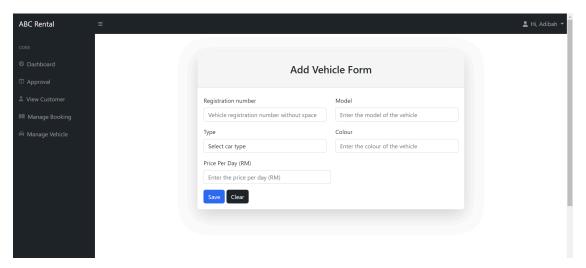
#### **Customer Info:**



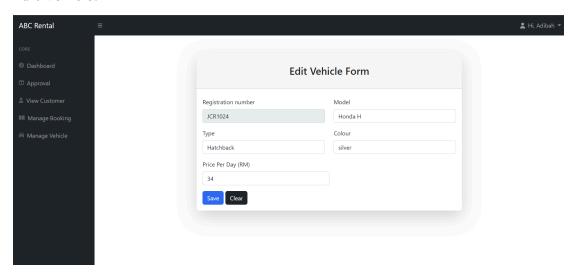
## Manage Vehicle:



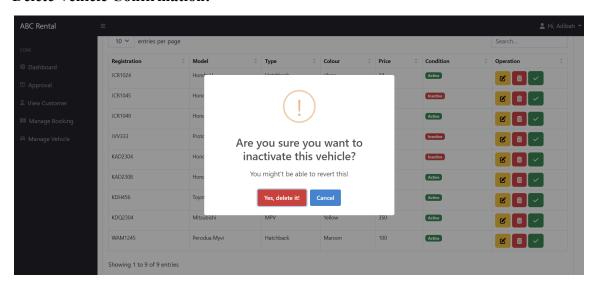
## **Add Vehicle:**



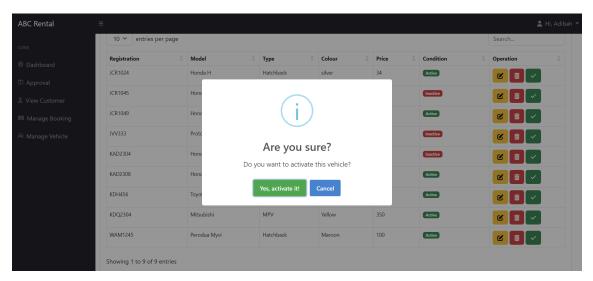
#### **Edit Vehicle:**



#### **Delete Vehicle Confirmation:**

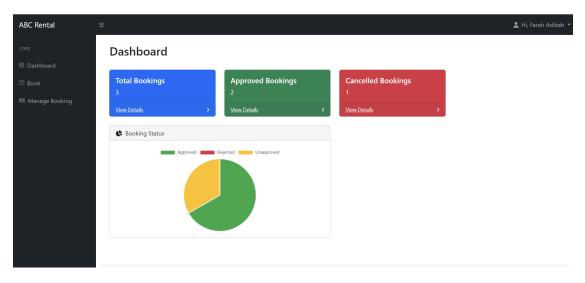


## **Activate Vehicle Confirmation:**

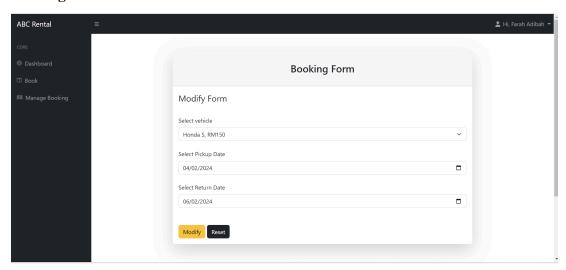


## 6.2 Customer

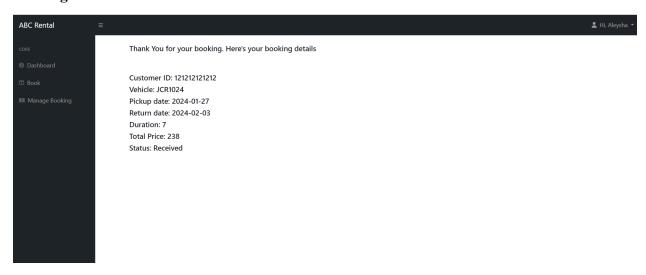
#### Dashboard:



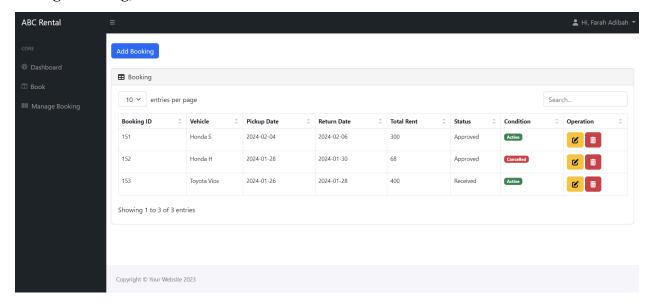
## **Booking Form:**



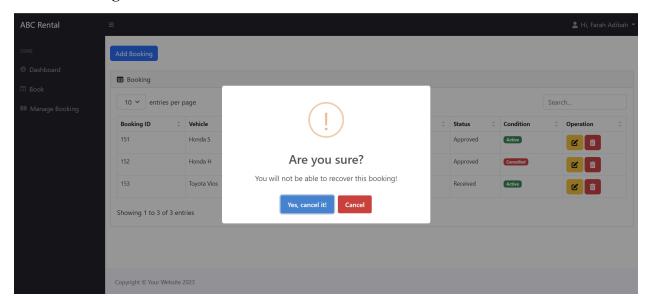
## **Booking Details:**



## Manage Booking, View Current and Past Reservation:



## **Cancel Booking Confirmation:**

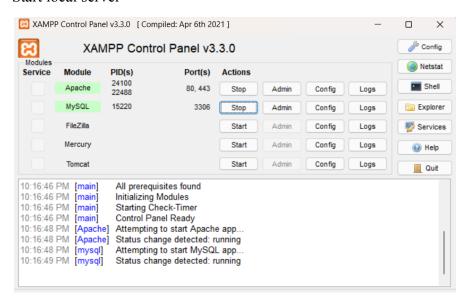


## 7. Localhost Setup (<a href="http://localhost/nurfarahadibah/">http://localhost/nurfarahadibah/</a>)

1. Download Local Server environment



2. Start local server



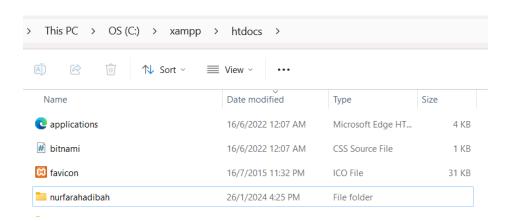
3. Verify setup (<a href="http://localhost">http://localhost</a>)

# Index of /

<u>Name</u>	Last modified	Size Description
Farah/	2024-01-23 19:52	-
akmaju/	2024-01-10 23:34	-
akmaju2/	2024-01-10 23:34	-
applications.htm	<u>nl</u> 2022-06-16 00:07	3.5K
bitnami.css	2022-06-16 00:07	177
cbs/	2024-01-22 03:46	-
cbs_old/	2024-01-21 14:00	_
dashboard/	2023-11-19 19:10	_
farah_cbs/	2024-01-25 21:36	-
favicon.ico	2015-07-16 23:32	30K
<u>img/</u>	2024-01-10 20:52	-
nurfarahadibah	2024-01-26 16:11	-
<u>webalizer/</u>	2024-01-10 20:52	-
xampp/	2024-01-10 20:52	-

Apache/2.4.58 (Win64) OpenSSL/3.1.3 PHP/8.2.12 Server at localhost Port 80

- Click nurfarahadibah
- 4. Document Root: C:\xampp\htdocs



5. Download the db\_cbs.sql and create a new database in <a href="http://localhost/phpmyadmin/">http://localhost/phpmyadmin/</a> with db\_cbs as its name.

# **8.** URL

Webhosting: <u>Link</u> Localhost: <u>Link</u>

## 9. User credentials

Admin	Customer	
IC: 031215031215	IC: 030303121215	
Password: farah101	Password: farahfarah	