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North Western University
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Vehicle Management System User Manual

1.Introduction

Vehicle Management System is a software developed by python using **tkinter** module to handle the function of **BRTA Vehicle Registration Process**.

It is a process for adding new vehicle information and the vehicle owner can view his vehicle and owner can also report a file for correction. Police sergeant also view vehicle details. Also Update information and delete information.

It helps to crosscheck information between owner and the police sergeant with proper information.

2.Objectives

- ❖ To eliminate the paper work in the BRTA office.
- ❖ Also eliminate the huge storage of data paper by storing data into Database.
- ❖ Simplify search and update process of BRTA Office.
- ❖ Build Digital official Interface to maintain official work digitally.
- ❖ Simply Calculate the case revenue of a sergeant.
- ❖ Owner fine amount calculate simply.

3. Entity Relationship Diagram

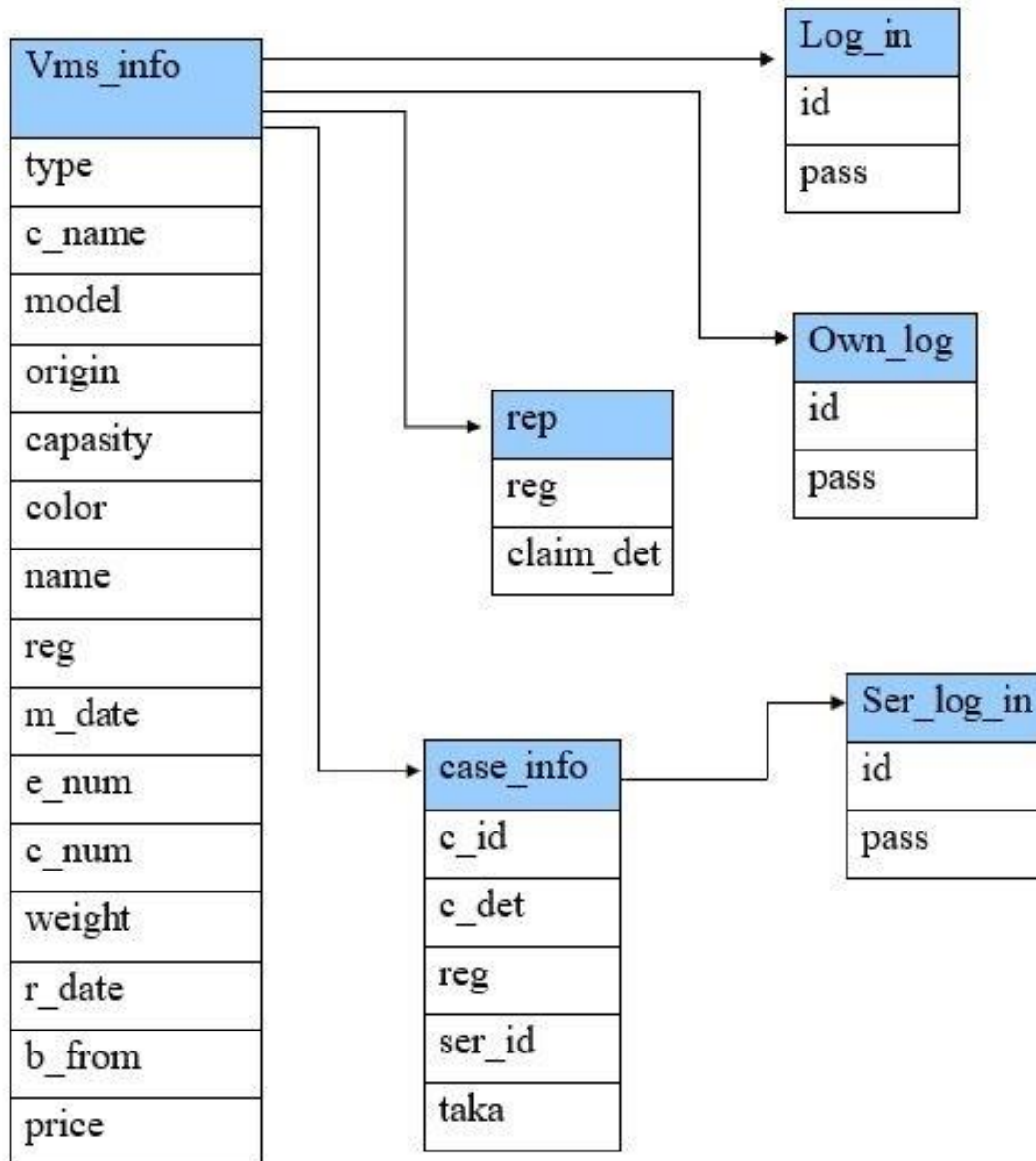
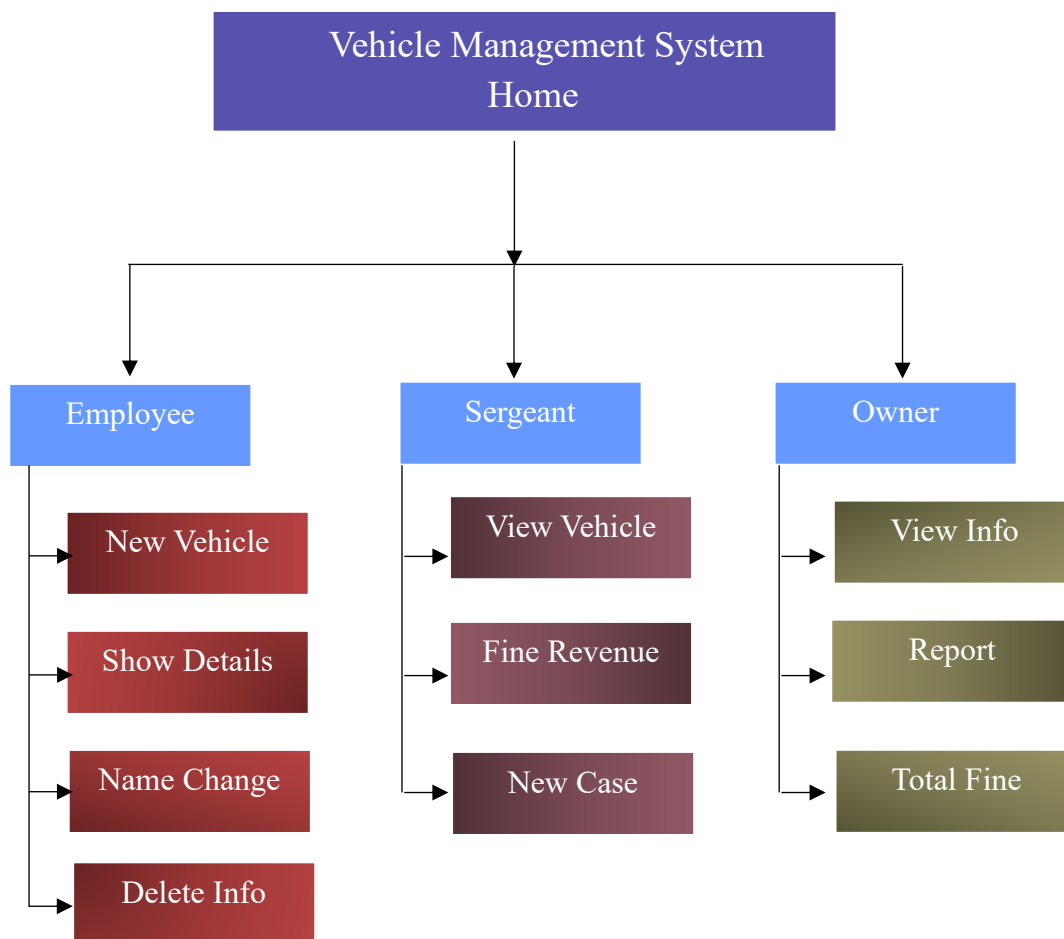


Figure: E-R Diagram of VMS



4.Site Tree

In the Vehicle Management System, there are **three** characters. **Employee**, **Owner**, **Sergeant**. Each has a unique view and their own Feature. A simple site tree can show what this character can view.



Here we can see each character has his own Feature. Below all these functions are described according to their presence.



5. Description

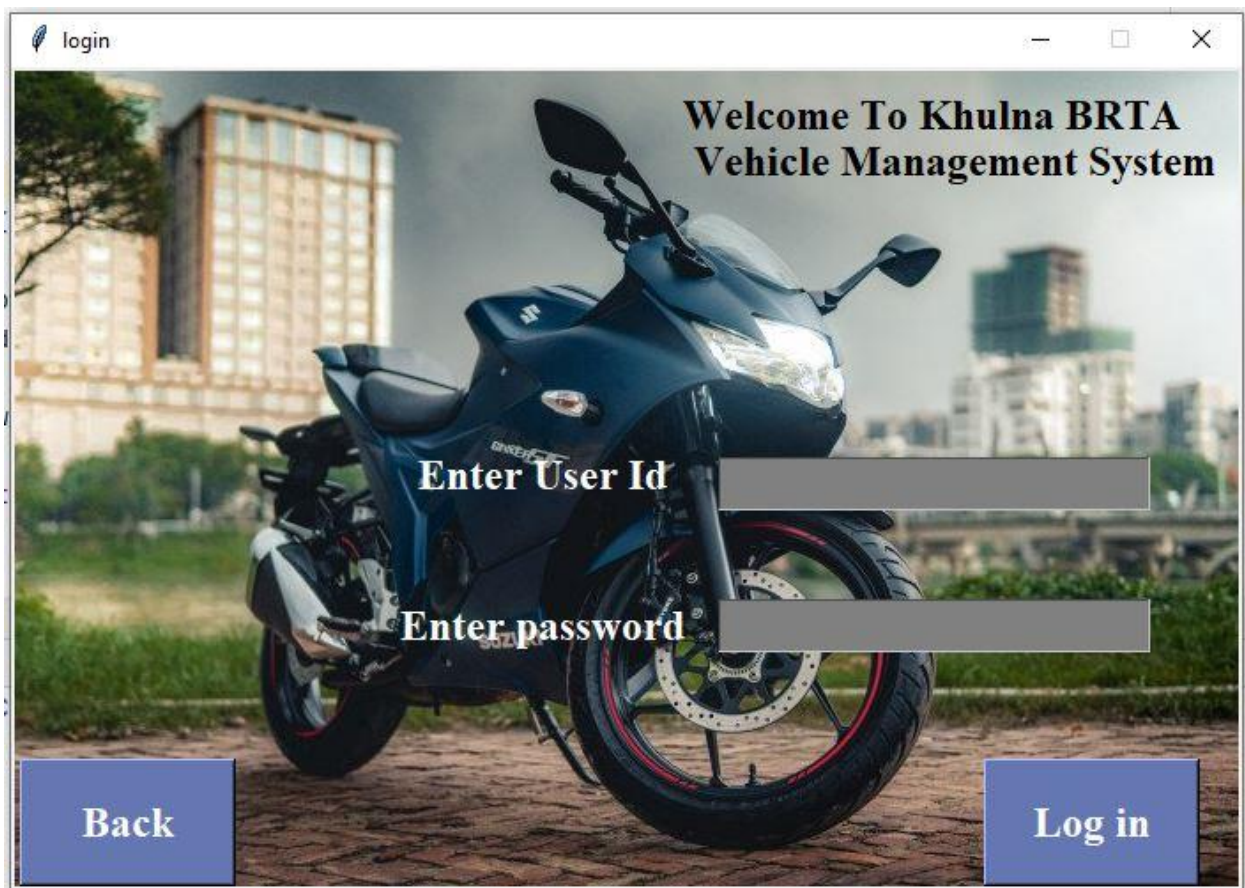
Home Page

This the **home page** of Vehicle management System.



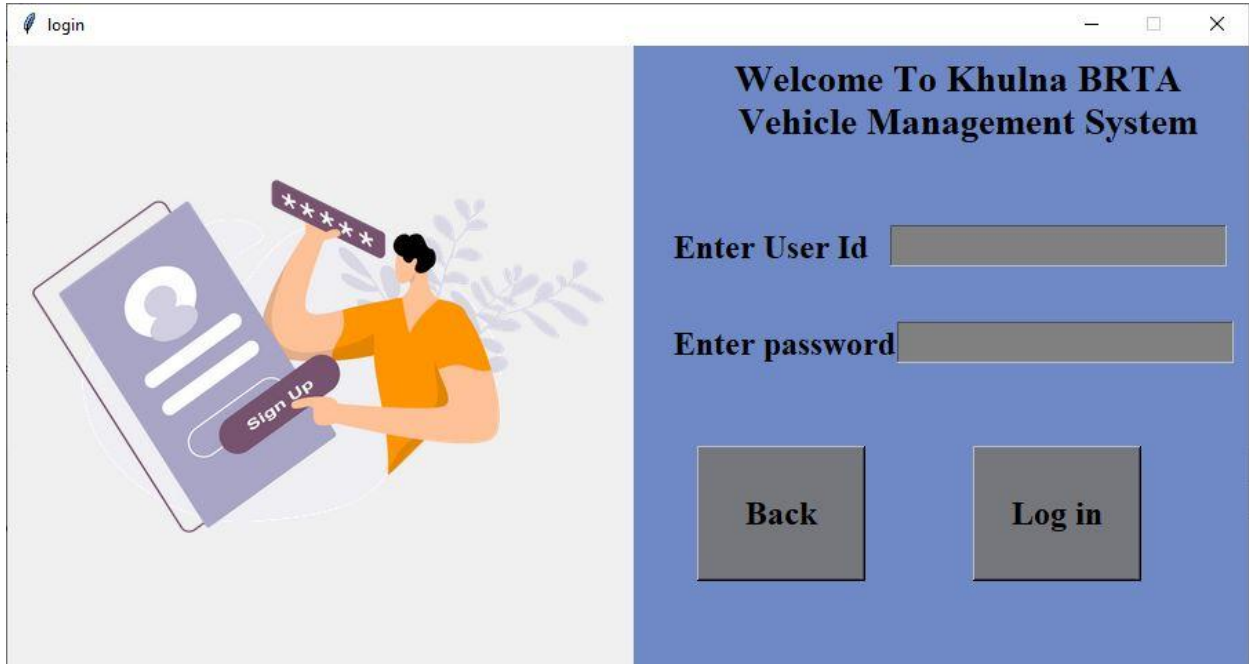
By Pressing different **Button** users are able to go different login page.

After Pressing **Employee log in** Button then it will go to this employee Login page,



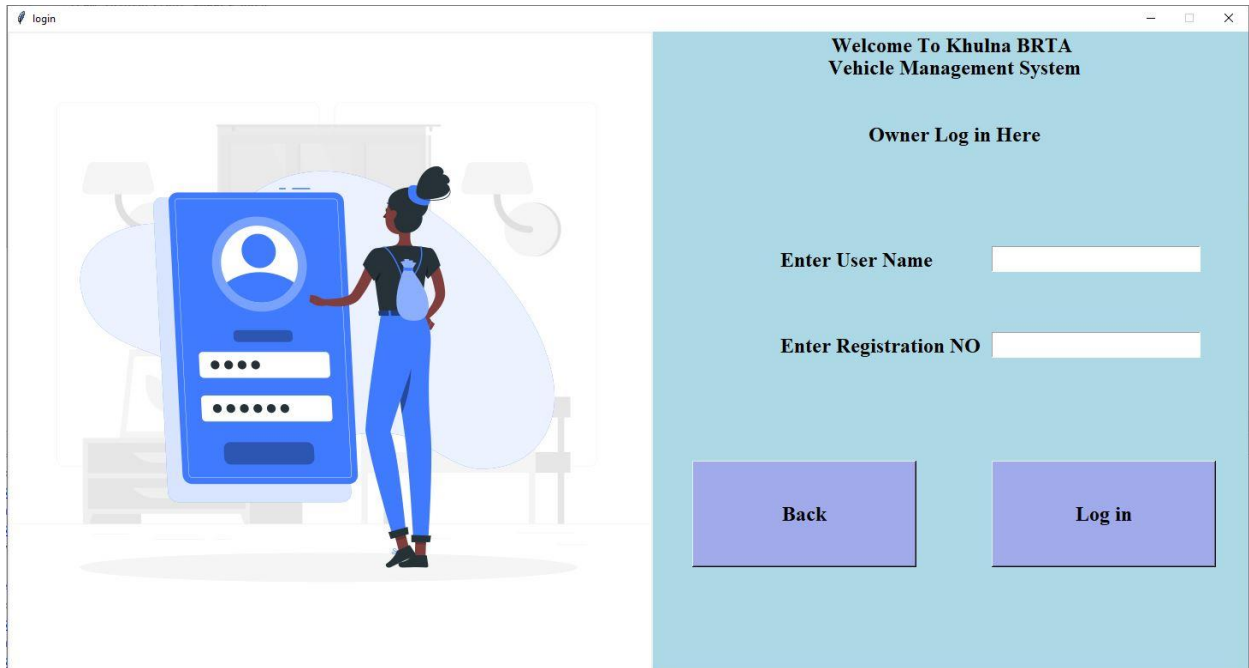
The image shows a web browser window titled "login". The background of the login page features a blue Suzuki motorcycle parked on a cobblestone path, with a city skyline in the background. The text "Welcome To Khulna BRTA Vehicle Management System" is displayed in the top right corner. Below this, there are two input fields: "Enter User Id" and "Enter password", each followed by a grey rectangular input box. At the bottom left, there is a blue button labeled "Back", and at the bottom right, there is a blue button labeled "Log in".

After Pressing **Sergeant log in** Button then it will go to this Sergeant Login page,



The image shows a web browser window titled "login". The page has a blue background. On the left, there is an illustration of a person in an orange shirt holding a large tablet with a "Sign Up" button. On the right, the text "Welcome To Khulna BRTA Vehicle Management System" is displayed. Below this, there are two input fields: "Enter User Id" and "Enter password". At the bottom, there are two buttons: "Back" and "Log in".

After Pressing **Owner log in** Button then it will go to this Owner Login page,

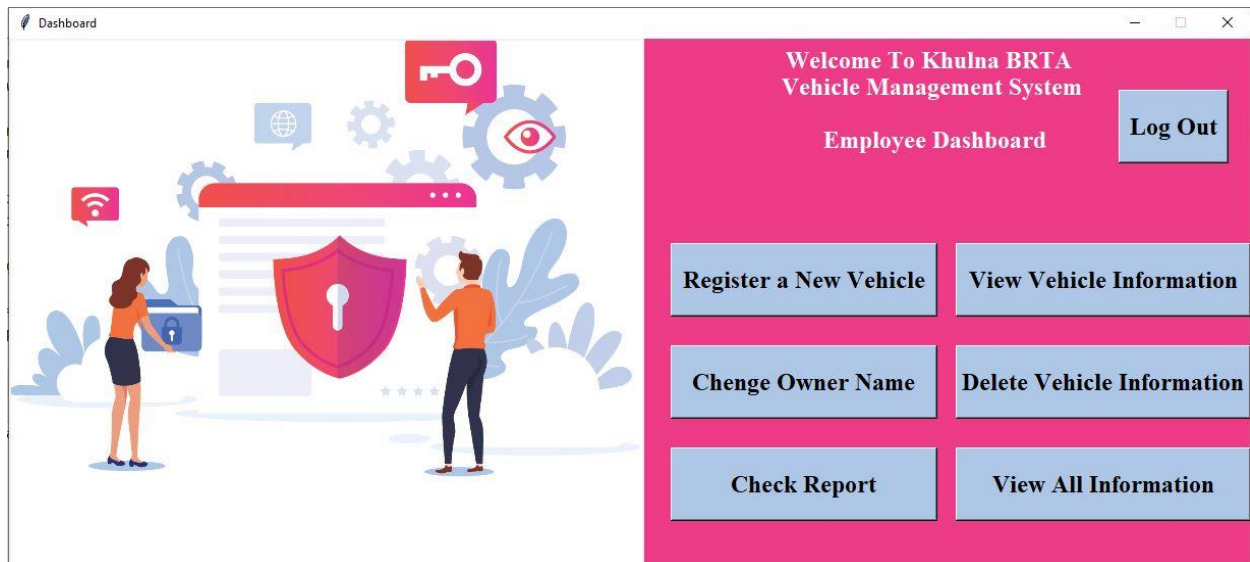


The image shows a web browser window titled "login". The page has a light blue background. On the left, there is an illustration of a person in a blue uniform standing next to a large blue tablet with a login form. On the right, the text "Welcome To Khulna BRTA Vehicle Management System" is displayed. Below this, the text "Owner Log in Here" is shown. There are two input fields: "Enter User Name" and "Enter Registration NO". At the bottom, there are two buttons: "Back" and "Log in".



Employee Mode

After login successfully, The Employee can view the Employee **dashboard** of the Vehicle management system as follow.



In this page, an Employee can **Add, view, Update, Delete, check** the information to the system. **BRTA** Authority appoints an Employee to manage it properly.



From Employee dashboard clicking **Register a New Vehicle** the Employee will be able to **add** a new vehicle information.

Insert

Back

Log Out

Welcome To Khulna BRTA
Vehicle Management System
Register A New Vehicle

Enter Vehicle Type

Enter Company Name

Enter Vehicle Model

Enter Brand Origin

Enter Seat Capacity

Enter Vehicle Color

Enter Owner Name

Enter Registration Number

Enter Manufacturer Date 8/14/22

Enter Engine Number

Enter Chassis Number

Enter Vehicle Weight

Enter Date Of Registration 8/14/22

Buy From

Vehicle Price

clear

SUBMIT

By Clicking Submit Button All Data Are store into database.



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From Employee dashboard clicking **View Vehicle Information** the Employee will be able to View Specific vehicle information searching by Registration Number.

The screenshot shows a web application window titled "View Vehicle Details". It features a purple header bar with a "Back" button on the left and a "Log Out" button on the right. In the center of the header, there is a search bar labeled "Enter Reg Number" followed by a "search" button. Below the header, there is a table with a light blue background. The table has a single row of headers in red text: "Type", "Company name", "Model", "Brand Origin", "Seat Capacity", "color", "Owner Name", "Reg NO", "Manufact Date", "Engine Number", "Cassis Number", "weight", "Reg Date", "Buy from", and "Price". The table body is currently empty.

Putting registration number into the label and click the search button the information will show into tree view.

From Employee dashboard clicking **Change Owner Name** the Employee will be able to change The Owner Name.

The screenshot shows a web application window titled "Update". It has a light blue header bar with a "Back" button on the left and a "Log Out" button on the right. In the center of the header, there is a welcome message: "Welcome To Khulna BRTA Vehicle Management System". Below the header, there is a section titled "Owner Name Change". To the left of this section is a large black icon of a person's head and shoulders with a circular arrow around it, indicating a change or update. To the right of the icon, there are two input fields: "Enter Registration Number:" and "Enter New Owner Name:". Below these fields is a "Change" button.



From Employee dashboard clicking **Delete Vehicle Information** the Employee will be able to Delete Specific Vehicle Information Selecting by Registration Number.

The screenshot shows a web browser window titled 'Delete'. The page has a light blue background. At the top, there are three buttons: 'Back' on the left, 'Welcome To Khulna BRTA Vehicle Management System' in the center, and 'Log Out' on the right. Below these buttons, the title 'Delete Vehicle Information' is centered. Further down, there is a label 'Enter Registration Number:' followed by a text input field. Below the input field is a 'Delete' button.

Putting registration number into the label and click the Delete button the information will Permanently Deleted from database.



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From Employee dashboard clicking **Check Report** the Employee will be able to View the report which is claim by the Vehicle Owner

REG No	REPORT DETAILS
123456	wrong owner name
125170	gjjyrtldhtrgh

After solving the report, the Employee can delete the report details from database.

From Employee dashboard clicking **View Vehicle Information** the Employee will be able to View Specific vehicle information searching by Registration Number

Type	Company name	Model	Brand Origin	Seat Capacity	color	Owner Name	Reg NO	Manufact Date	Engine Number	Cassis Number	weight	Reg Date	Buy from	Price
car	honda	x-trail	japan	5	black	dfyh	64576	12/12/12	46565436	865235563	776	12/12/12	khulna	5363653
bdfg	dfb	bdf	bdfx	45	bdfx	bdfg	4563	7/28/22	67567	72453	456	7/28/22	dfg	456678
bdfg2	dfb2	bdf2	bdfx2	452	bdfx2	bdfg2	4563456	7/28/22	675672	724532	4562	7/28/22	dfg2	4566782
bdfg2:	dfb23	bdf23	bdfx23	4523	bdfx23	bdfg23	4563456:	7/28/22	6756723	7245323	45623	7/28/22	dfg23	45667823
bdfg2:	dfb234	bdf234	bdfx234	45234	bdfx23	bdfg234	4563456:	7/28/22	67567234	72453234	45623	7/28/22	dfg234	456678234
bdfg2:	dfb2345	bdf234	bdfx2345	452345	bdfx23	habib	4563456:	7/28/22	675672345	724532345	45623	7/28/22	dfg2345	456678234
bdfg2:	dfb23456	bdf234	bdfx23456	4523456	bdfx23	bdfg23456	4563456:	7/28/22	6756723456	7245323456	45623	7/28/22	dfg23456	456678234
bdfg2:	dfb234567	bdf234	bdfx234567	45234567	bdfx23	bdfg234567	4563456:	7/28/22	67567234567	72453234567	45623	7/28/22	dfg234567	456678234

If an employee wants to delete any information then need to select the information row and press the delete button.

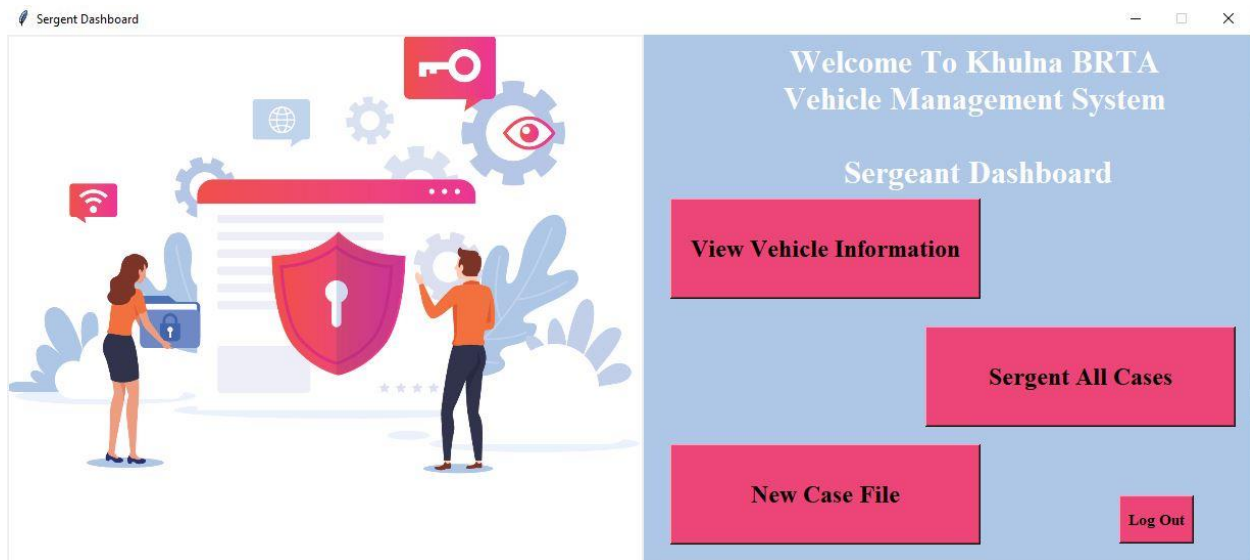


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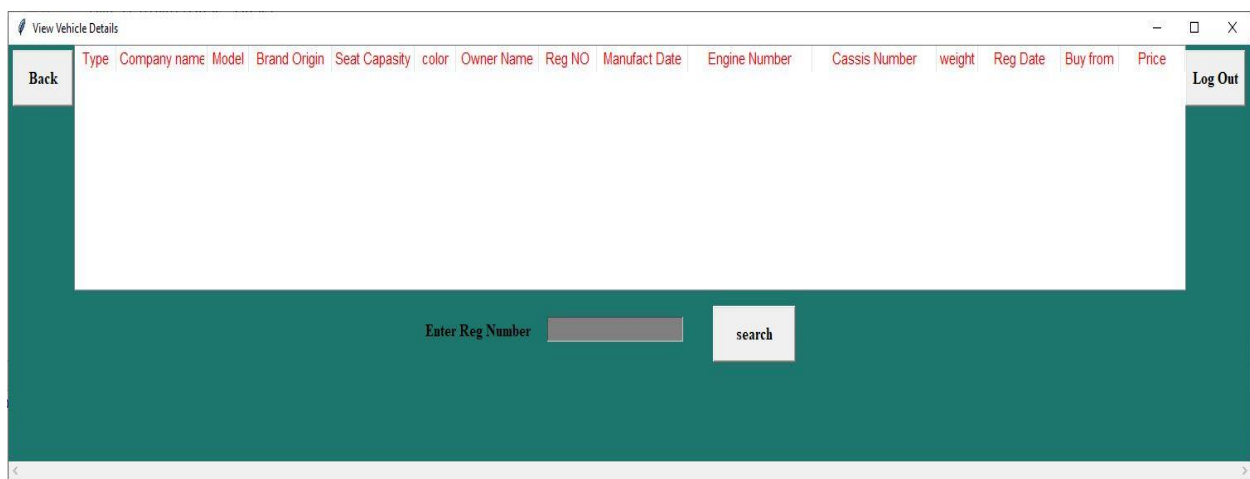
Sergeant Mode

After login successfully, The Sergeant can view the Sergeant dashboard of the Vehicle management system as follow.



In this page, a Sergeant can **add, view and check** the information to the system.

From Sergeant dashboard clicking **View Vehicle Information** the Sergeant will be able to View Specific vehicle information searching by Registration Number



It is a process for checking a vehicle information.



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From Sergeant dashboard clicking **Sergeant All Case** the Sergeant will be able to View All case which is noted by specific sergeant.

In This page sergeant will see his **5% revenue** which is noted by him. If he wants to delete any information, he can delete by clicking open calculator he will be able to calculate whatever he needs.

From Sergeant dashboard clicking **New Case File** the Sergeant will be able to Note a new case.

By Checking a vehicle and find any fault then the sergeant can note a new case.

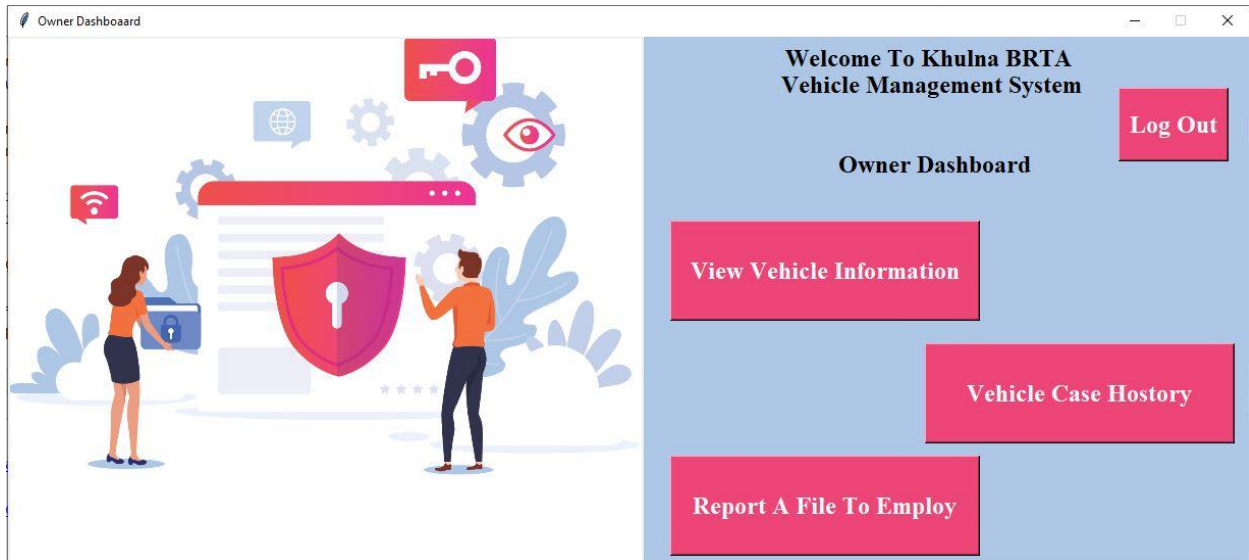


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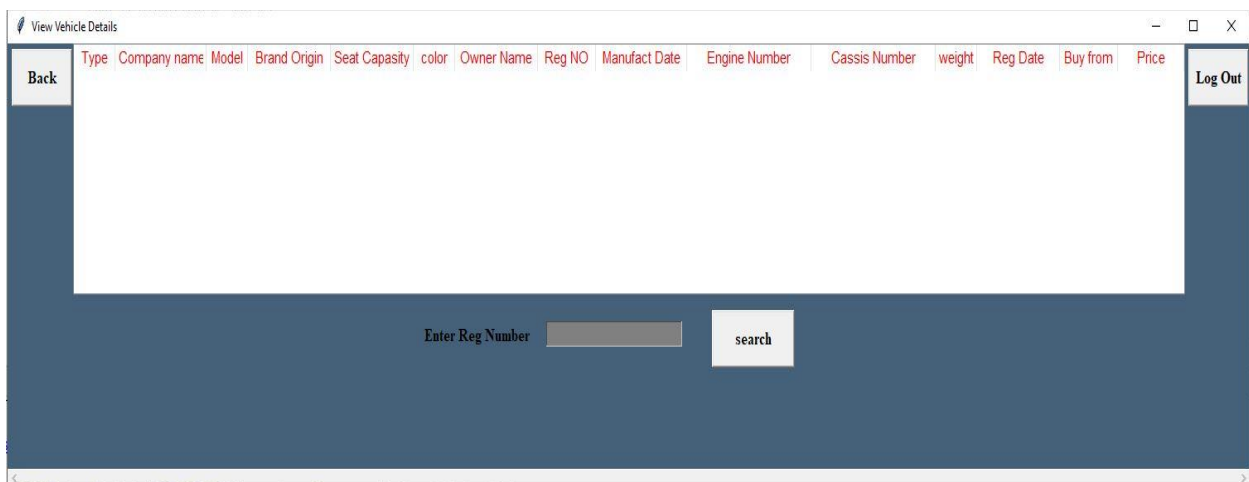
Owner Mode

After login successfully, the Owner can view the Owner dashboard of the Vehicle management system as follow.



In this page, an Owner can add Report, view and check the information to the system.

From Owner dashboard clicking **View Vehicle Information** the Owner will able to View his vehicle information searching with his registration number





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From Owner dashboard clicking **Vehicle Case History** the Owner will be able to view all case which is noted for his vehicle

In This page owner will see his total fine amount for his fault. If he wants to delete any information, he can delete. Clicking open calculator, he will calculate many things.

From Owner dashboard clicking **Report A file** to employee the Owner will be able to note a complaint against Employee.

If a vehicle owner finds any fault in his vehicle information then he will report a complaint against the employee.



6. Dependencies:

1. Xampp: The Vehicle Management system (vms)'s database is Store in local server. So xampp software is needed to run this project properly.
2. Pycharm: For built this project we use Python language and Python Built in Packages. Install all the Packages which we have use. The name of the packages are given into ReadeMe.txt file. After Install all packages the project will run successfully.
3. Tkinter: We have used Python Tkinter Module for the User Interface. So, you must have to import the Tkinter Module for successfully executing this project.



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