



East West University

Department of Computer Science and Engineering

CSE103: Project Description [Fall 2022]

Vehicle Management System

This project “Vehicle Management System” is to design and develop an automated system that will be used to automate Vehicle Management. You must use Pointers, Structures (struct), Functions, Strings Array, Switch, etc.

Specific Objective:

- To save time and resources.
- To keep individual Vehicle information secure.
- To overcome the manual Vehicle recording system.
- To increase employee satisfaction.
- To reduce the errors and the paperwork.
- It enables fast data retrieval.

welcome_Message():

This function displays the first welcome screen of the “Vehicle Management System” and asks the user to press any key to access the Vehicle Management application. For example:

[illegible]

is_Name_Valid():

In this function, it checks whether the User Name, Vehicle Name, Vehicle Manufacturer Name..etc. is valid or not. For example: if Vehicle Name is “@%0h” then it is wrong so it should take input and check the validation. You can be permitted this function to take the space in names.

is_Valid Date():

Same as the is_Name_Valid() function. This function read the date in the format of dd/mm/yyyy and also it validates the entered date.

menu():

This function displays the "Vehicle Management System" menu and asks the user to select the option. If the user selects 6, then the application will close. For example:

addVehicleInDataBase():

When the user enters Choice 1. This function is called then in the function the user will input the “VEHICLE DETAILS” as required:

Vehicle ID NO = 1

Vehicle Name = Tesla Model S

Vehicle Manufacturer Name = Tesla

Vehicle issued date by Manufacturer (day/month/year): 22/06/2012

For example:

```
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
<~><~><~><~>                                     <~><~><~><~>  
<~><~><~><~>                                Vehicle Management System      <~><~><~><~>  
<~><~><~><~>                                     <~><~><~><~>  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
  
                                ADD NEW VEHICLE  
  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
  
ENTER VEHICLE DETAILS BELOW:  
-----  
  
Vehicle ID NO   = 1  
  
Vehicle Name    = Tesla Model S  
  
Vehicle Manufacturer Name = Tesla  
  
Vehicle issued date by Manufacturer (day/month/year): 22/06/2012
```

Then Store them for further use.

searchVehicles():

When the user enters Choice 2. This function is called then in this function the user will input the Vehicle Name that the user wants to search then the program will show the all available “VEHICLE DETAILS” of that Vehicle. If the Vehicle is not available in the list, it shows the message Vehicle not found in records.

For example:

User input: Vehicle Name = Tesla Model S

As the Vehicle is available in the list, it shows:

viewVehicles():

When the user enters Choice 3. This function is called then it will display all the stored Vehicle details. If there is no Vehicle available in the records, then it displays the message record is empty.

All the stored Vehicle details:

[illegible]

If there is no Vehicle available in the records:

```
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
<~><~><~><~>                                     <~><~><~><~>  
<~><~><~><~>                                Vehicle Management System                                <~><~><~><~>  
<~><~><~><~>                                     <~><~><~><~>  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
  
                                VIEW VEHICLE DETAILS  
  
<~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~><~>  
No Record  
  
Press any key to go to main menu.....
```

deleteVehicles():

When the user enters Choice 4. This function is called then this function asks for the “Vehicle ID” from the user for which the user wants to delete Vehicle details. If the user enters the wrong id which is not available in the records, then it displays the message “Record not found”. If Vehicle ID is found in the record then it deletes the Vehicle details from the record and displays “Record deleted successfully.....”.

If Vehicle ID is found in the record:

[illegible]

If Vehicle ID is not in the record:

[illegible]

updateCredential():

When the user enters Choice 5. This function is called then It asks the user for the new username and password. After taking the password and username it updates the existing username and password and displays “Your Password has been changed successfully” then asks the user to login again then if any key is pressed the program will take you to the login page the user has to login again using the updated username and password.

Finally, if the user enters Choice 6. The program shows “Thank you!!!” and exit the program.

```
<N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N>  
<N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N>  
<N><N><N><N>                                                                <N><N><N><N>  
<N><N><N><N>                                Vehicle Management System          <N><N><N><N>  
<N><N><N><N>                                                                <N><N><N><N>  
<N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N>  
<N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N>  
  
<N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N>  
  
MAIN MENU  
  
<N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N><N>  
  
1.Add Vehicle  
2.Search Vehicles  
3.View Vehicles  
4.Delete Vehicle  
5.Update Password  
6.Exit  
  
Enter Choice: 6  
  
Thank you!!!
```

----- **End** -----