<div align="center">Documentation of the Practical Test</div>

Introduction

This system is designed to store and display vehicle information, including registration number, model name, number of seats, and the colours of the vehicles.
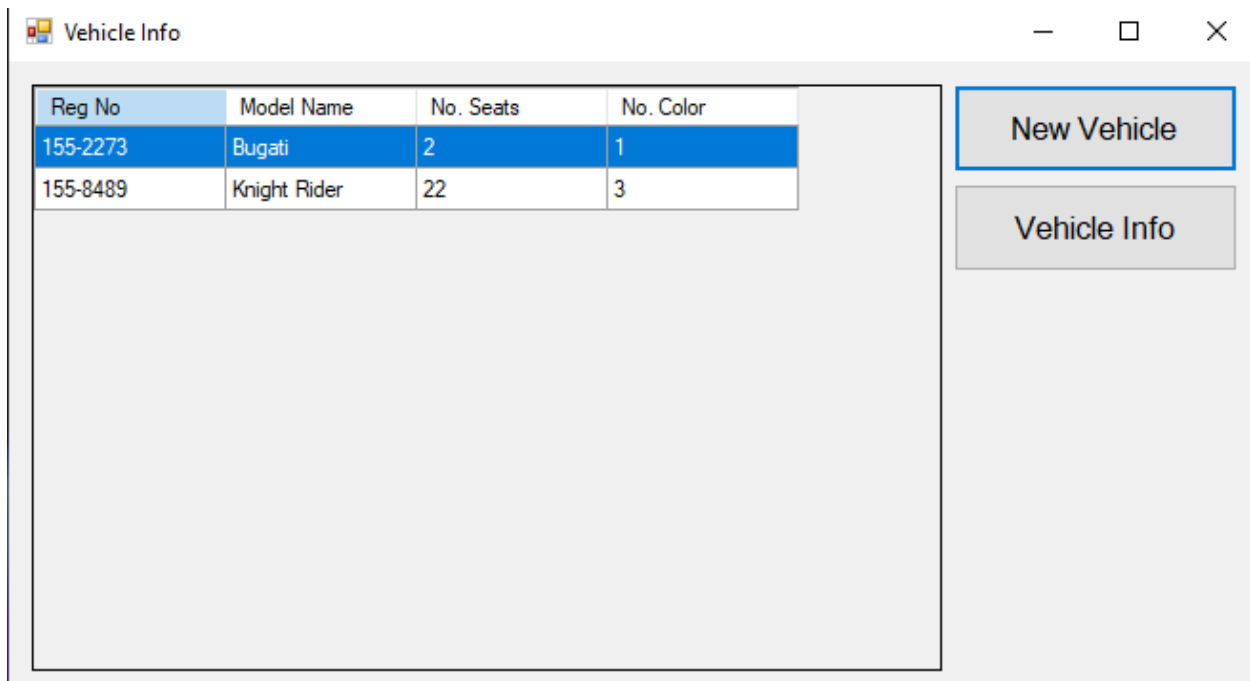
Key Features

1. Store the vehicle registration number, model name, number of seats and colour codes
2. View all the vehicle details
3. View each vehicle's details separately
4. All inputs are validated
5. Store multiple colours in the each vehicle

How to work with software?

Dashboard

- All the vehicle data can be seen here.
- Click the "New Vehicle" button to add a new vehicle.
- Click the "Vehicle Info" button to see the separate information for each vehicle

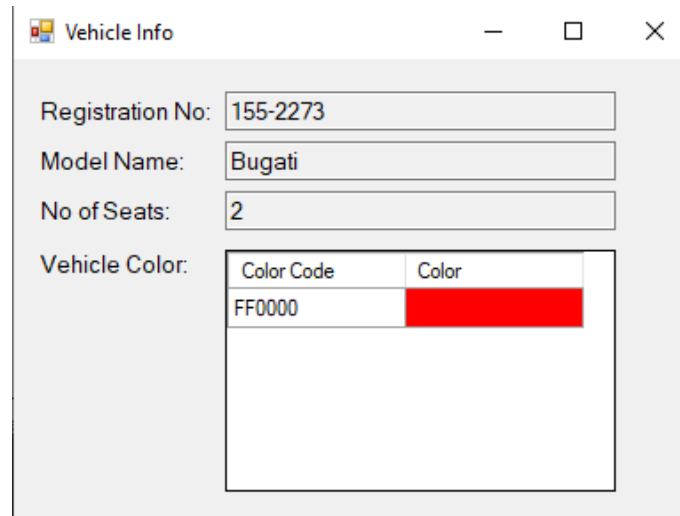   **(Note: A vehicle must be selected from the table)**

Vehicle Info

- All the information related to the selected vehicle is shown here including the multiple colors.
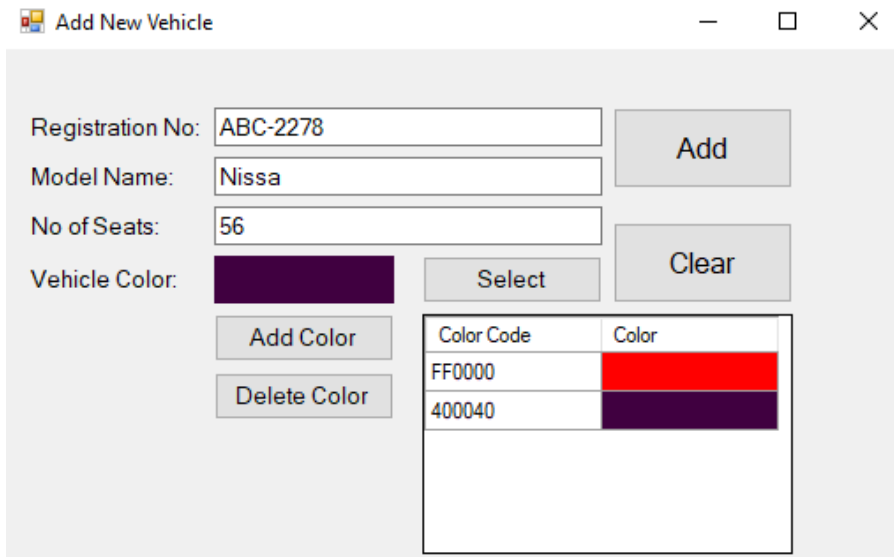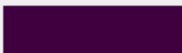
New Vehicle

- This form is used to add a new vehicle.

- The text boxes of the Registration number, model name, and number of seats must be filled.

- **(Note: All the inputs are validated and required)**

- Click the "Select" button to select and preview a color and then click "Add Color" to add the color.

- If you want to remove a colour select the colour that you want to remove and click the "Delete Color" button.

- To save a vehicle at least add one colour to the table.

- Click the "Clear" button to clear all the fields.

- After saving the form is automatically directed for new vehicle saving.

Development Procedure

Configurations

- Operating System: Window 10

- Framework: .NET Framework

- Architecture: MVC (model-view-controller)

- Database: MS SQL

Note: All the user inputs are validated here

Table Design

Table No: 01

Table Name: vehicle_tbl

Primary Key\s: reg_no

Foreign Key\s: no

Field	Data Type	Data Size	Description
reg_no	VARCHAR	10	Primary key, Not Null,
model_name	VARCHAR	50	Not Null
no_of_seat	INT	3	Not Null

Table No: 02

Table Name: vehicle_color_tbl

Primary Key\s: reg_no, color_code

Foreign Key\s: vehicle_tbl (reg_no)

Field	Data Type	Data Size	Description
reg_no	VARCHAR	10	Primary key, Not Null, Reference: **vehicle_tbl (reg_no)**
color_code	VARCHAR	8	Primary Key, Not Null