

A PROJECT ON Hand Me Down Cars

SUBMITTED IN
PARTIAL FULFILLMENT OF THE REQUIREMENT
FOR THE COURSE OF DIPLOMA IN ADVANCED COMPUTING FROM CDAC



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1. INTRODUCTION TO PROJECT

Car Trading means buy/sell used cars including budget, model, prices, company etc. Our project is meant to give people a better and trustworthy platform where they can sell and buy cars of their own choice and obviously on their own terms and condition.

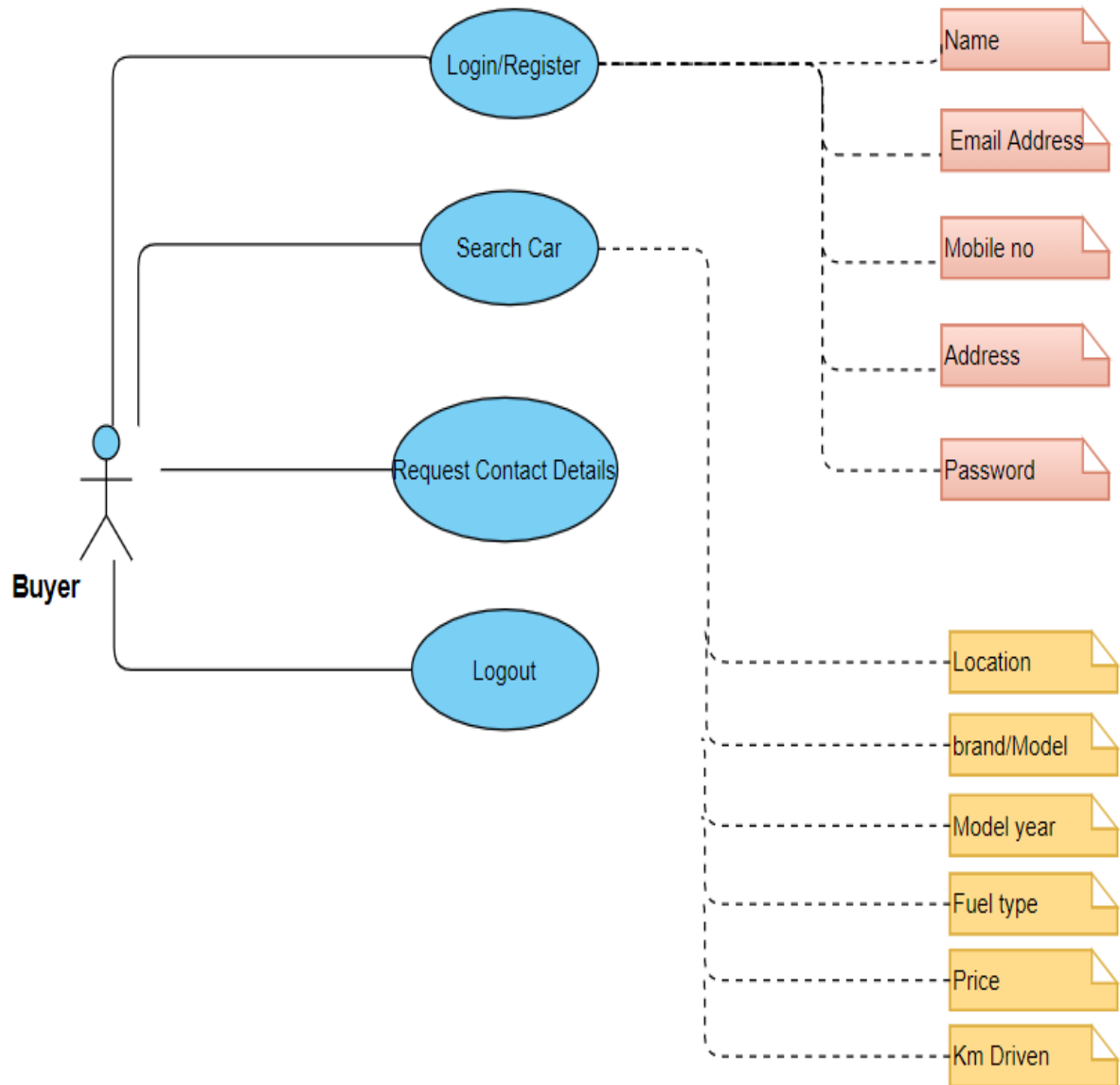
With the help of internet and computer systems a man from remote area can buy/sell his car from anywhere the country/world. We can also add option of the online auction of heritage and vintage cars in which customers can take part in the auction. This will eliminate the barrier of distance and area.

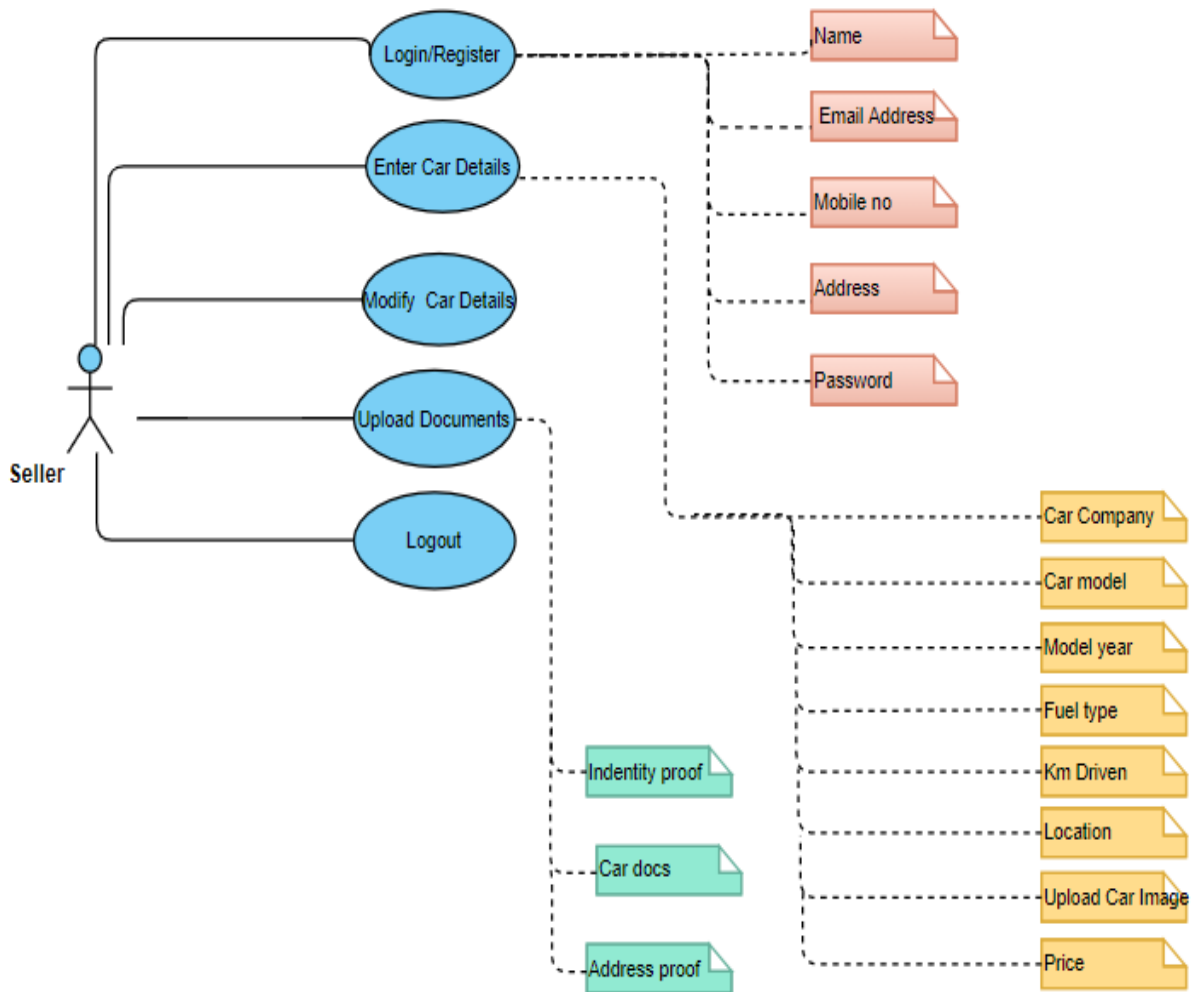
The purpose of this project is to create a Car Sales System that allows the consumer to enter Car Information. To do this, the customer has to view the Car Sales System program.

Only the driver will have access to enter the Cars info. Maintaining these data is the duty of the administrator to preserve details such as Manufacturer, Year, Model, Price and KM Travelled, Extra Information. Both of these items will be maintained by the system. The system has two main features for both Vehicle Information and Car Scan. One is maintaining the Car Information, etc., and the other is handling the Age, Price, and Travelled KM search mechanism. This is where the user can scan the car by age. Provide search parameters for vehicle descriptions and the user should see all documents and the user should see all car history and data. The car sales system should have a strong user interface with menus and toolbars.

2.REQUIREMENTS

2.1 FUNCTIONAL REQUIREMENTS





2.2 User Account

The customer, who will henceforth be called the ‘user’, will be presented with 2 choices after registration, as this is the first step in the interaction between them. A user can choose one of these and his choice would be governed by whether he is a buyer or a seller and whether he wants to check the availability of cars or also buy them. The terms ‘registered user’ are described below.

A user who did registration earlier would have been given a user id and a password. This ‘personal information’ would be henceforth referred to as ‘profile’. Such a user with

a profile in DB-user shall be called a ‘registered user’. A registered user will be able to check the availability of cars as well as buy/sell a car by logging into the system.

A new user, on the other hand, would either have to register himself with the system by providing personal information

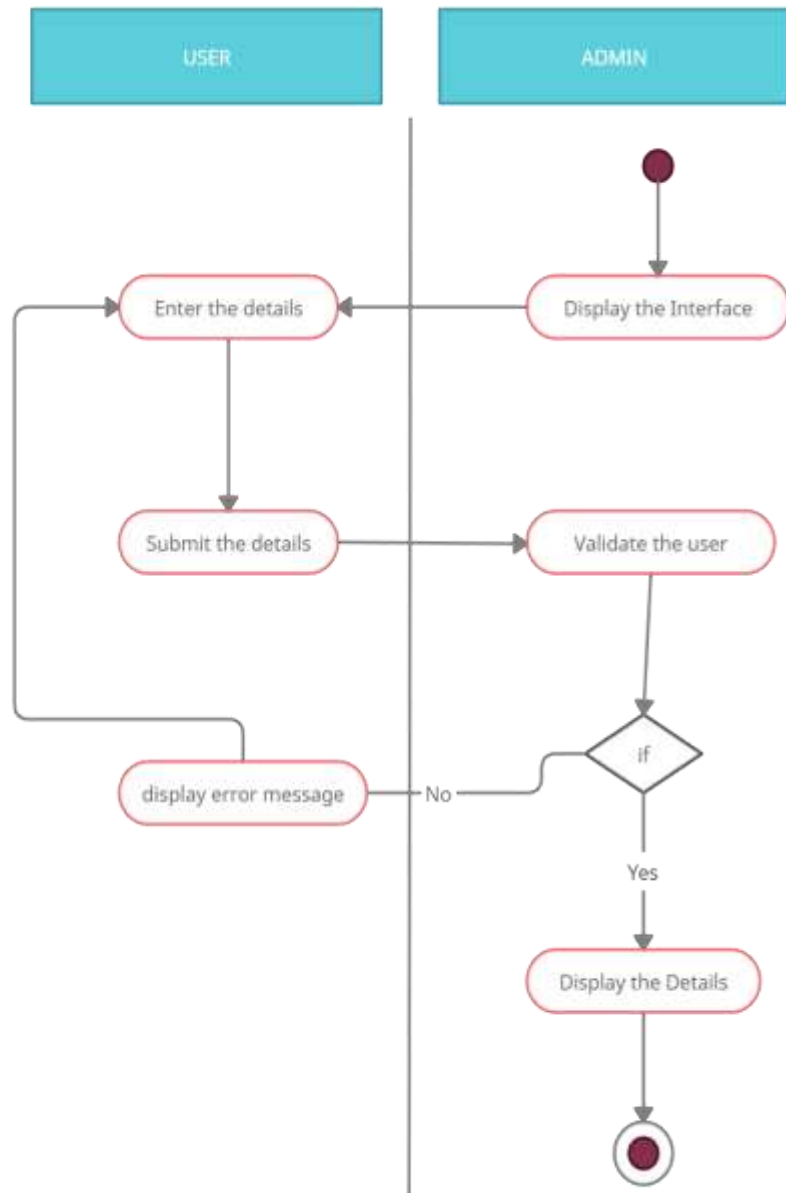
‘Availability of cars’ refers to viewing the car details of the car and the seller, the price of car and other features of the car. The system shall present the user with an option to exit from the system at any time during the following processes.

2.3 Registration and creation of user profile

The system shall require a user to register, in order to carry out any interaction with the user for checking the availability of cars. It will ask the user for the following information at the least – a user id, password, first name, last name, address, phone number, email address, city, security code, pin code.

In this page if he already has an account then he can click on “Already Register” link he then he will be redirected to the Login page. In Login page it will asked for the following details – E-mail ID and Password.

If the user cannot recall his password, then in this page, we have provided a “forgot password” link, this link will redirect the user to forgot password page and there the user can change the password if he entered correct security code that he entered during the registration.



2.4 Buying and selling car

After having taken the user through the step 2.2, Checking Availability, the system will now ask the user if he wishes to buy the car. If yes, and

- a) If the user has not been a registered user, he will have to first register and become a registered user and then log onto the system.
- b) If the user is already a registered user, and if he has logged on already, he can buy the car, but if he is a seller then he can upload new car or edit existing car details.

Having ensured that the user is logged on successfully according to 2.2 the system compares the entered credentials to the database credentials. If the credentials entered doesn't match with the databases, then the system will show that "login" failed message.

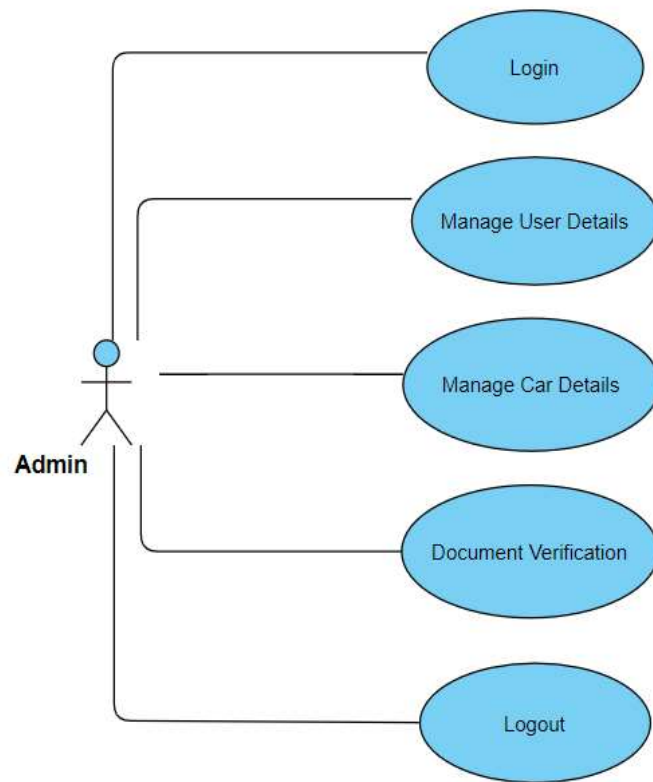
If the entered credentials match with the database, then the system will response as "login successful" and it will redirect the customer/user to the respective page.

After successful login the customer/user will redirect to respective home page there the customer will have the "Open menu" dropdown. After clicking on Open Menu Customer will find Edit profile, list my Car, Setting and Logout Options.

If customer want to modify his details, then he can click on Edit profile. It will ask the user for the following information at the least – Password, first name, last name, address, phone number, email address, city, security code, pin code.

2.5 View Selling List

After clicking on list my car, the customer can see all his car details (list wise) and he will have the option to "delete" any particular entry from his cart after clicking on delete button.



Admin should be able to login, add company and model information, Delete car, user and see user Information according to user Id.

3. DESIGN

3.1 Database Design

The following table structures depict the database design.

Table1: User

Key Type/ Constraint	Column Name	Data Type	Length	Allow Null (1=Yes;0=No)
PRI	user_id	Integer	4 bytes	0
0	address	varchar	100	1
0	city	Varchar	20	1
0	email	Varchar	30	1
0	first_name	Varchar	20	1
0	last_name	Varchar	20	1
0	mobile_no	Varchar	10	1
0	password	Varchar	50	1
0	pincode	int	4 bytes	0
0	role	Varchar	10	1
0	security_code	Varchar	10	1
0	is_user_active	tinyint	1 byte	1

Table2: Car Company

PRI	companyId	Int	4 byte	0
0	name	Varchar	20	1

Table3: Car

PRI	car_id	int	4 byte	0
0	car_image	Varchar	100	1
0	City	Varchar	20	1
0	car_color	Varchar	20	1
0	Date	Date	8	1
0	car_fuel_type	Varchar	20	1
0	car_kilometer_driven	Int	4 byte	1
0	model_id	Int	4 byte	1
0	car_price	double	8 byte	1
0	is_car_active	tinyint	1 byte	1
MUL	companyId	Int	4 byte	1
MUL	userId	Int	4 byte	1
MUL	kyc_id	int	4 byte	1

Table4: Car Model

PRI	modelId	int	4 byte	0
0	model_name	Varchar	20	1
MUL	companyId	int	4 byte	1

Table5: KYC

PRI	kyc_id	int	4 byte	0
0	car_document	Varchar	100	1
0	car_number	Varchar	10	1

E-R Diagram and Class Diagram:

Go to Appendix A

4. CODING STANDARDS IMPLEMENTED**Naming and Capitalization**

Below summarizes the naming recommendations for identifiers in Pascal casing is used mainly (i.e., capitalize first letter of each word) with camel casing (capitalize each word except for the first one) being used in certain circumstances.

Identifier	Case	Examples	Additional Notes
Class	Pascal	User, Customer, Admin	Class names should be based on "objects" or "real things" and should generally be nouns . No ‘_’ signs allowed. Do not use type prefixes like ‘C’ for class.
Method	Camel	getDetails, updateDetails	Methods should use verbs or verb phrases.
Parameter	Camel	customerName, pincode	Use descriptive parameter names. Parameter names should be descriptive enough that the name of the parameter and its type can be used to determine its meaning in most scenarios.
Interface	Pascal with "I" prefix	Disposable	Do not use the ‘_’ sign
Property	Pascal	ForeColor, BackColor	Use a noun or noun phrase to name properties.

Associated private member variable	<code>_camelCase</code>	<code>_foreColor, _backColor</code>	Use underscore camel casing for the private member variables
Exception Class	Pascal with "Exception" suffix	<code>WebException,</code>	

Comments

- Comment each type, each non-public type member, and each region declaration.
- Use end-line comments only on variable declaration lines. End-line comments are comments that follow code on a single line.
- Separate comments from comment delimiters (apostrophe) or `//` with one space.
- Begin the comment text with an uppercase letter.
- End the comment with a period.
- Explain the code; do not repeat it.

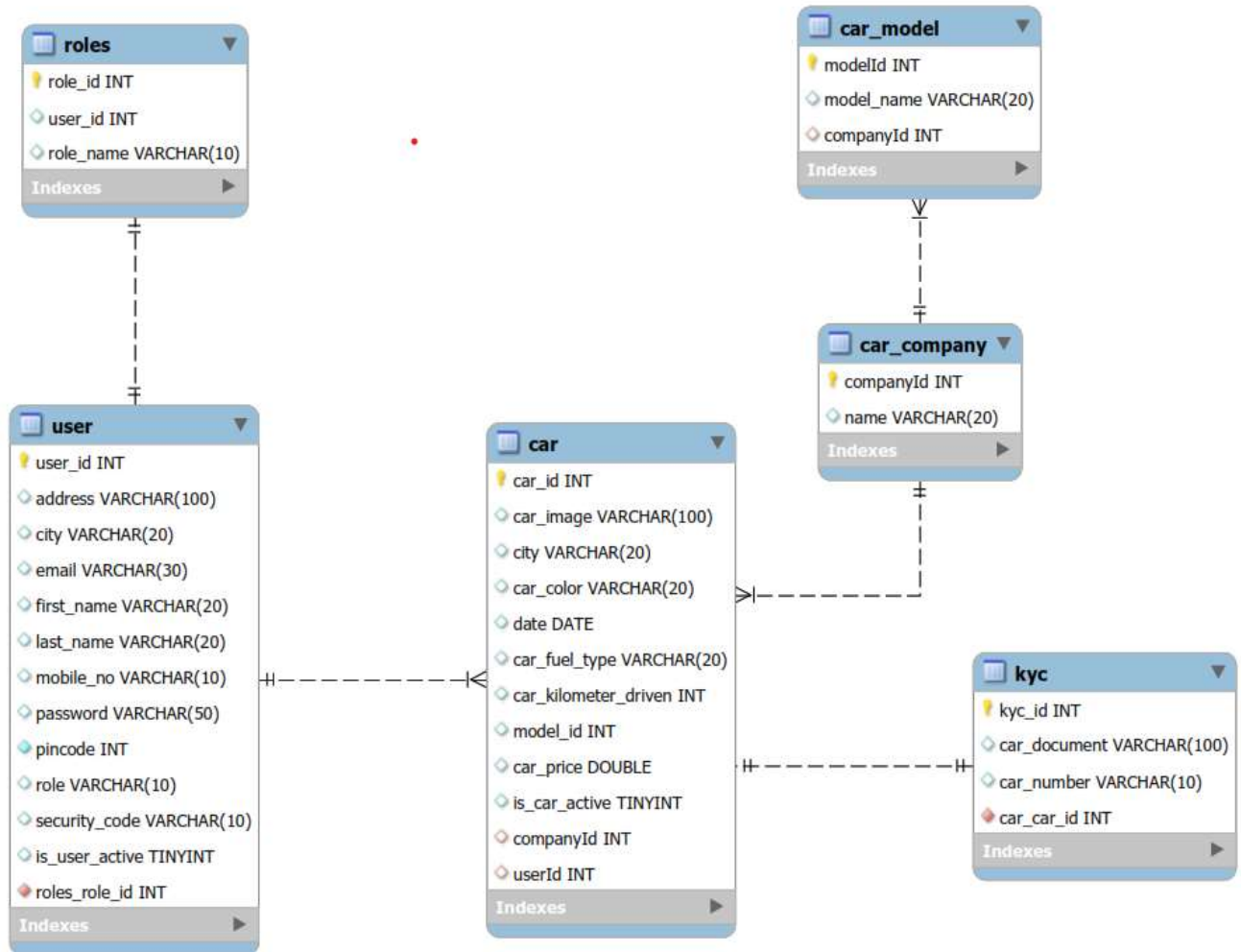
5. TEST REPORT

GENERAL TESTING:

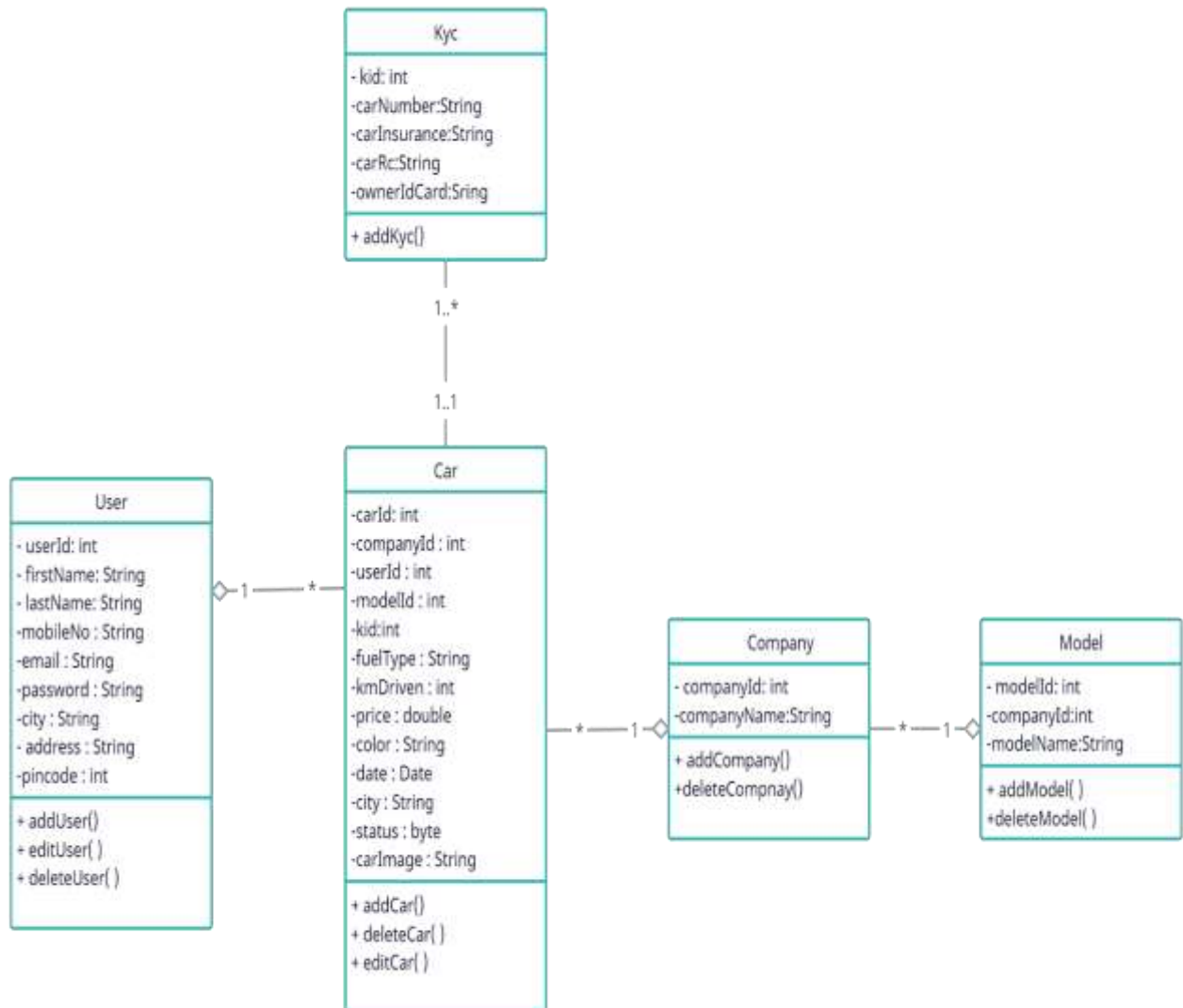
SR-NO	TEST CASE	EXPECTED RESULT	ACTUAL RESULT	ERROR MESSAGE
1	Register Page	Redirected to Next page	OK	Nothing
2	Login Page	Pop-up will come	Ok	Please enter username and password again.
3	Reset login	Only user's password will be reseted	Ok	Nothing
4	Add car	All the fields should be filled for submission	Ok	Nothing
5	Get Cars	Pop-up will come	Ok	Nothing
6	Checking login or not	User is logged in or not	Ok	Nothing
7	Go to Buy Car page	Get added Information about the cars	Ok	Nothing
8	Add Car Company	Save this all data into company table	Ok	Nothing
9	View Seller Details	Seller Information and details will show	Ok	Nothing
	STATIC TESTING		Ok	Nothing

Appendix A

Entity Relationship Diagram



Class Diagram



6. PROJECT MANAGEMENT RELATED STATISTICS

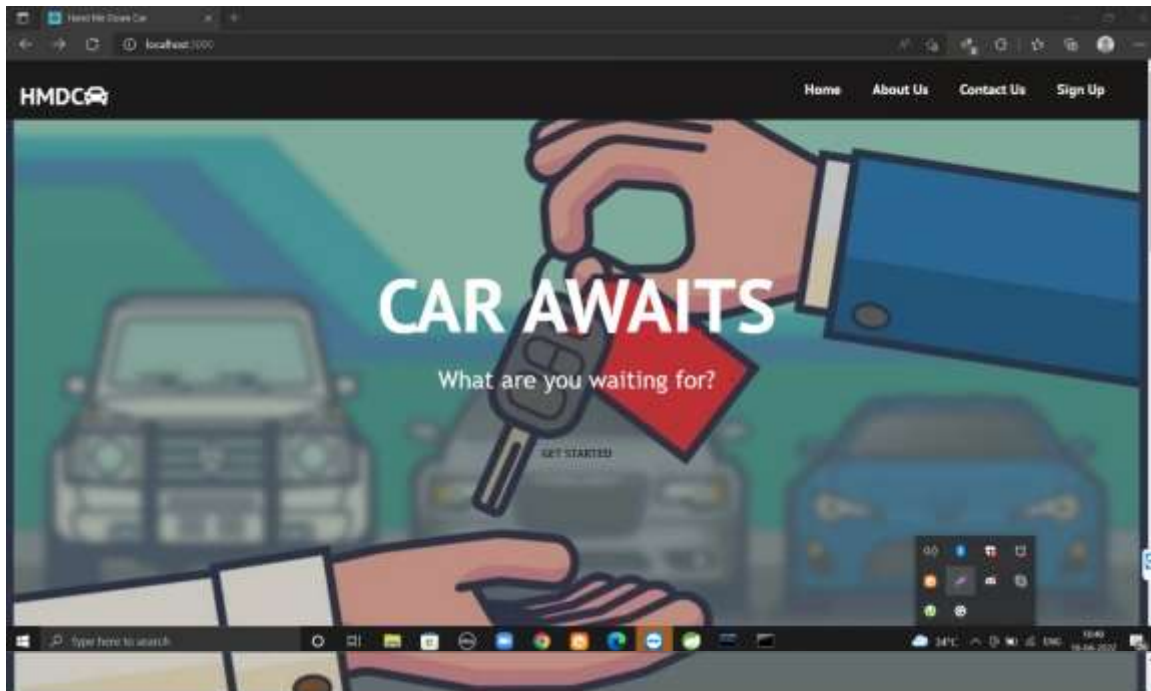
DATE	WORK PERFORMED	SLC Phase	Additional Notes
14/11/2021	Project Allotment and User Requirements Gathering	Feasibility Study	Our team met the client Mr. Nitinkudale (CEO, SIIT Pune) to know his requirements.
28/11/2021	Initial SRS Document Validation And Team Structure Decided	Requirement Analysis (Elicitation)	The initial SRS was presented to the client to understand his requirements better

12/12/2021	Designing the use-cases, Class Diagram, Collaboration Diagram, E-R Diagram and User Interfaces	Requirement Analysis & Design Phase	Database Design completed
04/01/2022	Business Logic Component design Started	Design Phase	-----
15/01/2022	Coding Phase Started	Coding Phase	70% of Class Library implemented.
22/01/2022	Implementation of Web Application and Window Application Started	Coding Phase	Class Library Development going on.
06/03/2022	Off	Off	Off
26/03/2022	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	Class Library Modified as per the need.
28/03/2022	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	--
30/03/2022	After Ensuring Proper Functioning the Required Validations were Implemented	Coding Phase and Unit Testing	Module Integration was done by the Project Manager
03/04/2022	The Project was Tested by the respective Team Leaders and the Project Manager	Testing Phase (Module Testing)	--
10/04/2022	The Project was Submitted to Other Project Leader of Other Project Group For Testing	Testing Phase (Acceptance Testing)	The Project of Other Team was Taken up by the Team for Testing

11/04/2022	The Errors Found were Removed	Debugging	The Project was complete for submission
13/04/2022	Final Submission of Project		

Appendix A

HOME PAGE



Car Gallery



SIGNUP

Hand Me Down Cars

localhost:3000/signup

Signup successfully

First Name
Shraddha

Last Name
Barbole

Mobile Number
9876543210

Email
shraddhabarbole@getnada.com

Password

Address
Tandharni

City
Solapur

Pincode
431110

Security Code
abcd

Signup

Already have an account?

SIGNIN

Hand Me Down Cars

localhost:3000/login

Login Successful

Login

Email
shraddhabarbole@getnada.com

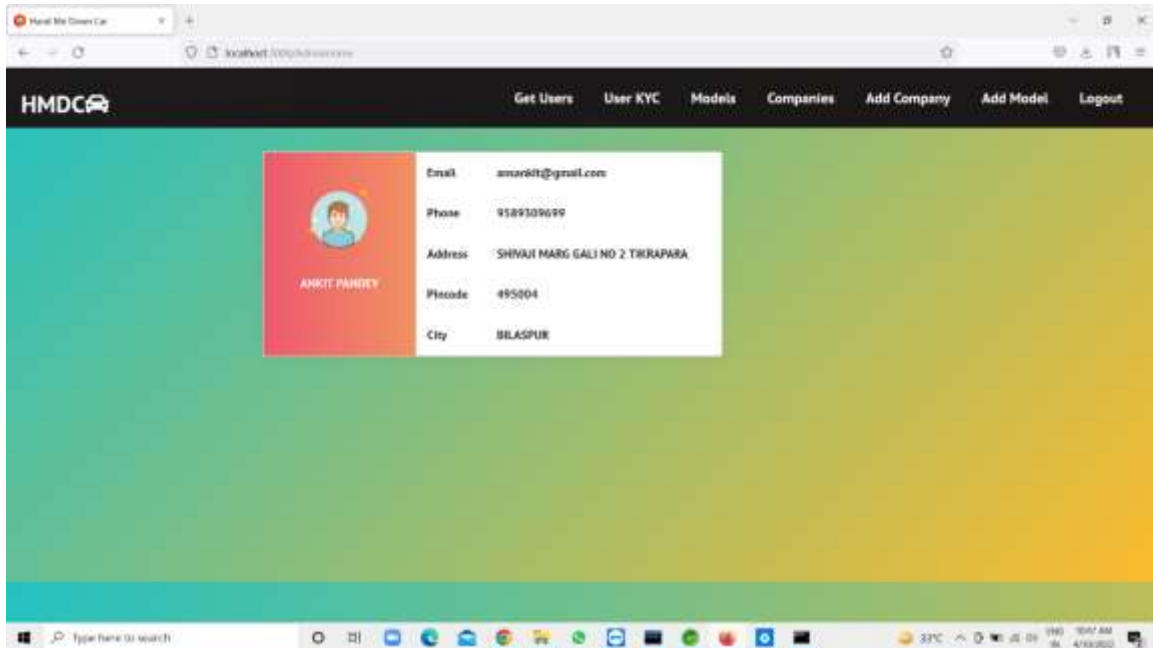
Password

Login

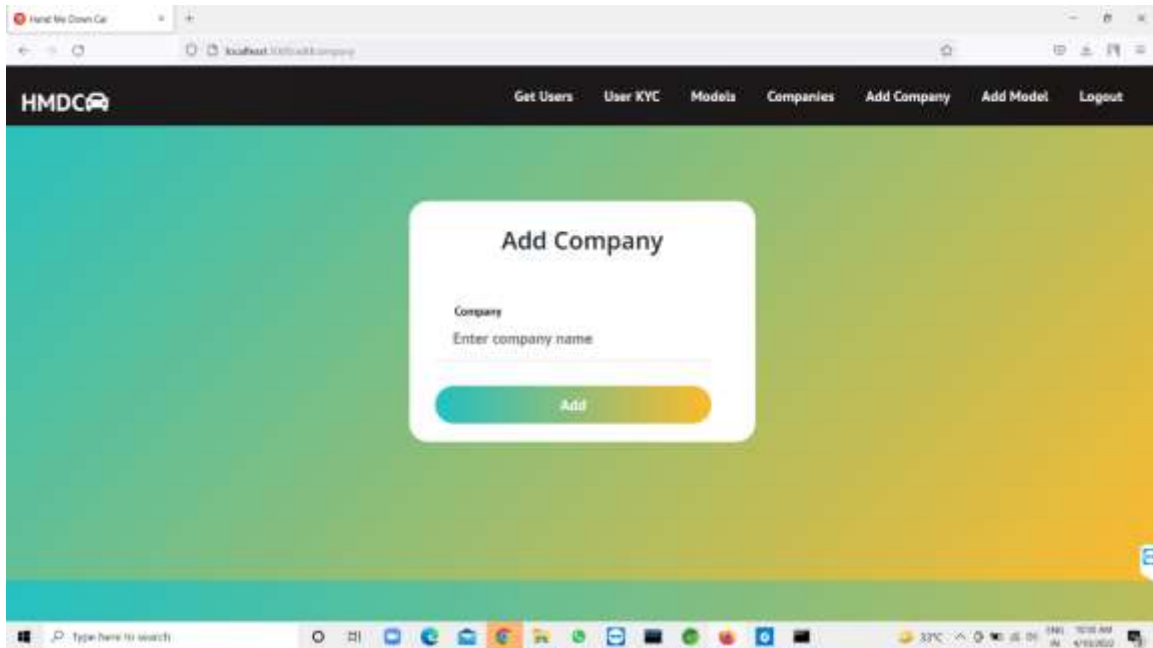
don't have an account?

forgot password?

ADMIN WELCOME PAGE



ADD CAR COMPANY FEATURE



ADD MODEL FEATURE OF ADMIN

The screenshot shows the 'Add Model' form in the HMDCA admin interface. The form is centered on a green-to-yellow gradient background. It has a title 'Add Model' at the top. Below the title, there are two input fields: 'Brand' with 'Ford' entered and 'Model' with 'Figo' entered. At the bottom of the form is a blue 'Add' button. The top navigation bar includes links for 'Get Users', 'User KYC', 'Models', 'Companies', 'Add Company', 'Add Model', and 'Logout'. A 'Lightshot' watermark is visible in the bottom right corner of the form area.

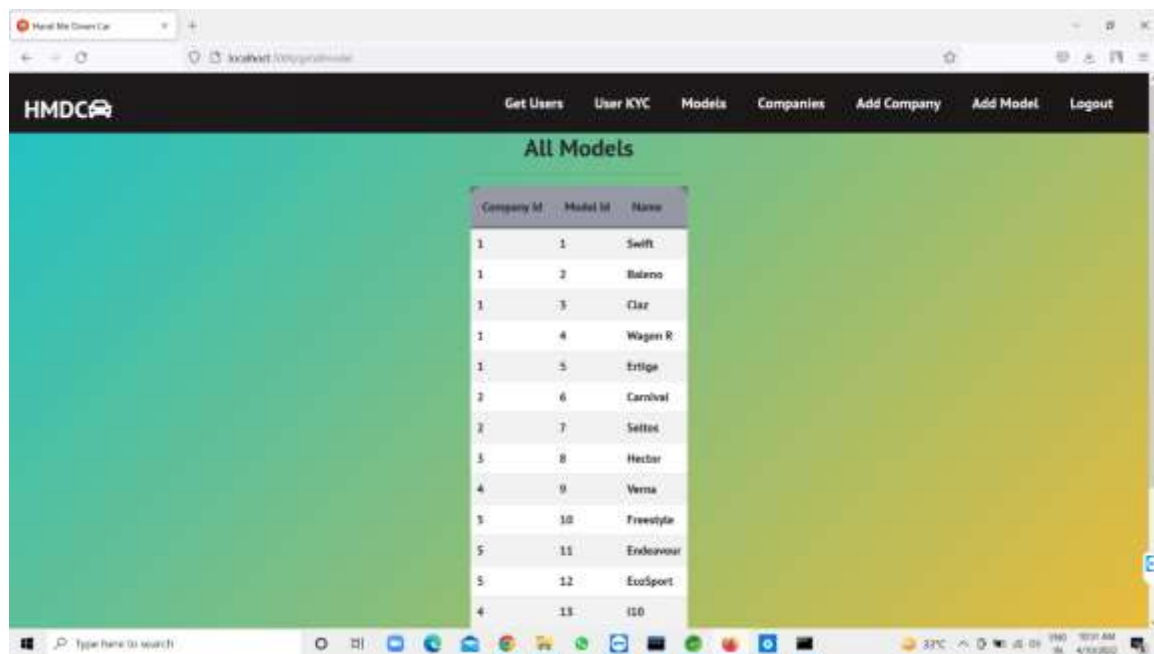
Brand	Model
Ford	Figo

COMPANY LIST

The screenshot shows the 'All Companies' list in the HMDCA admin interface. The table lists six companies with their IDs and names. The top navigation bar is the same as in the previous screenshot.

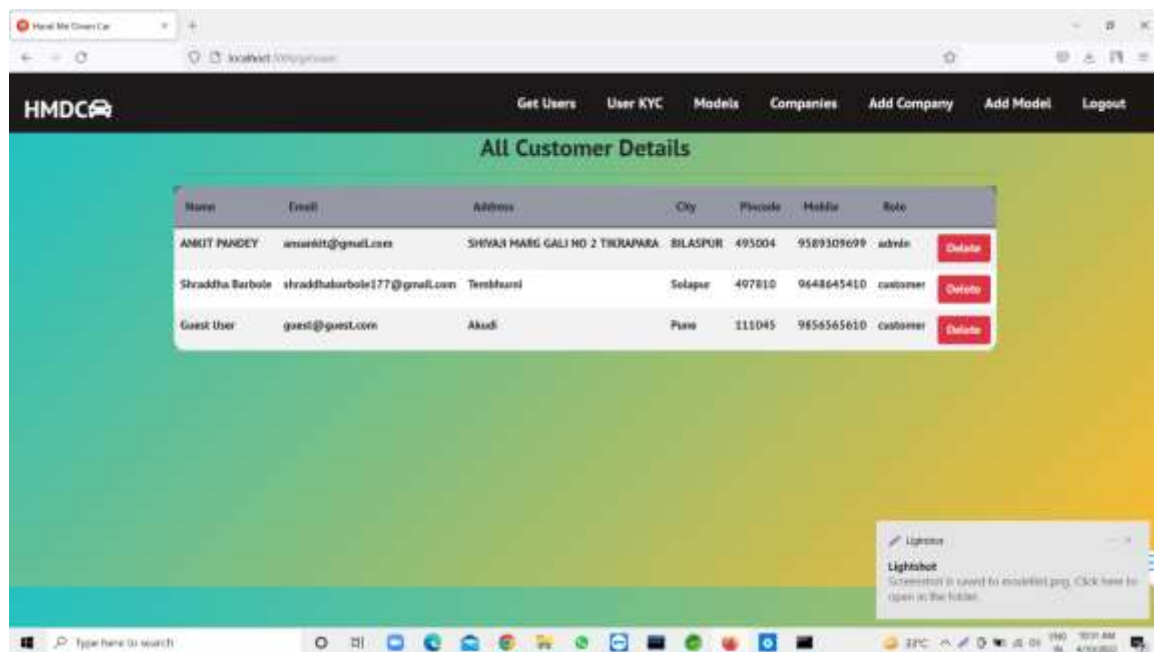
ID	Name
1	Maruti
2	Kia Motors
3	Maruti Garage
4	Hyundai
5	Ford
6	Maruti

CAR MODEL LIST



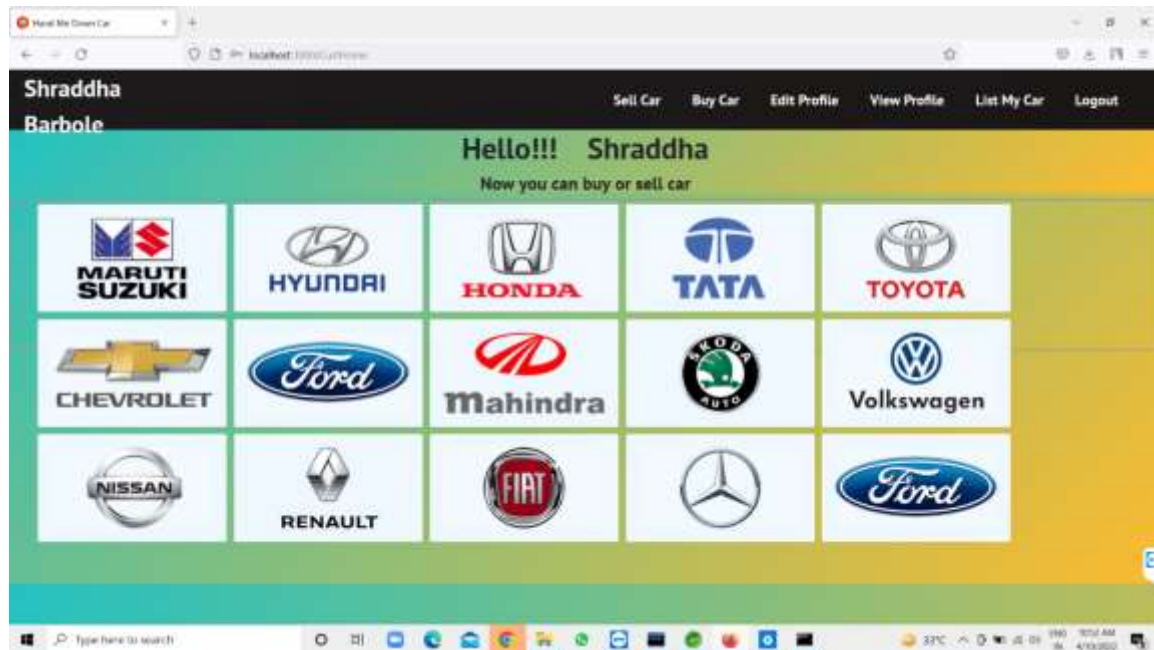
Company Id	Model Id	Name
1	1	Swift
1	2	Baleno
1	3	Clar
1	4	Wagen R
1	5	Ertiga
2	6	Carnival
2	7	Seltos
3	8	Hector
4	9	Verna
5	10	Freestyle
5	11	Endeavour
5	12	Ecosport
4	13	i10

GET USER DETAILS LIST

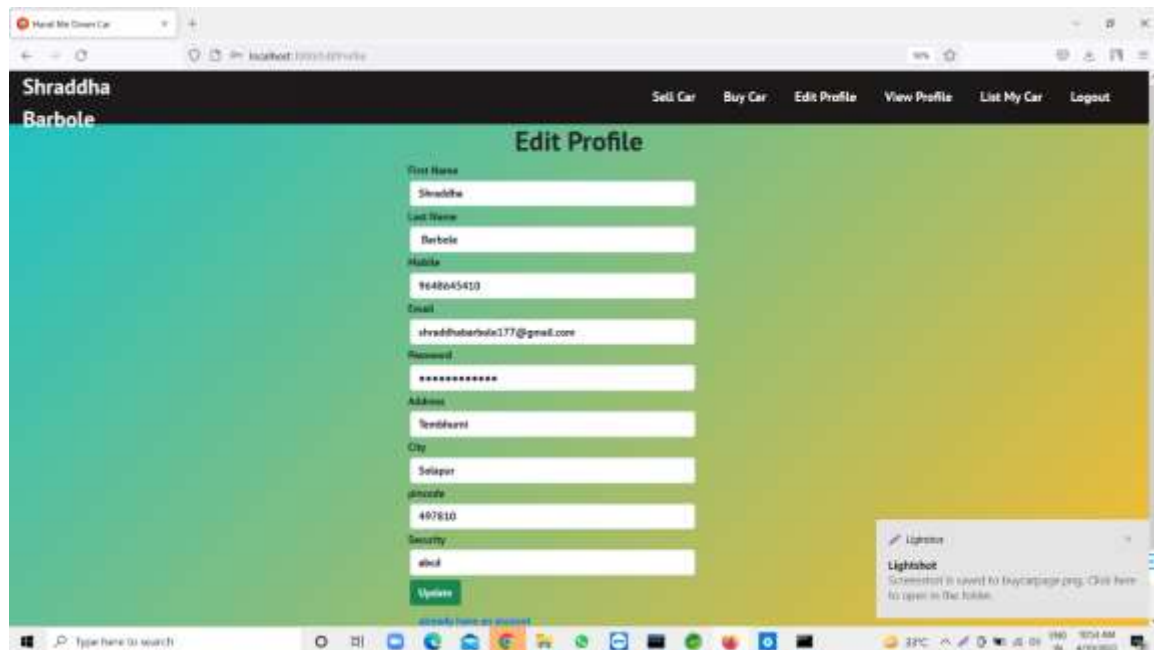


Name	Email	Address	City	Pincode	Mobile	Role
ANKIT PANDEY	anankit@gmail.com	SHYAM MARG GALI NO 2 THURAPARA	BILASPUR	495004	9589309699	admin
Shradha Barbole	shradhabarbole177@gmail.com	Tembhurni	Solapur	407810	9648645410	customer
Guest User	guest@guest.com	Akshi	Pune	111045	9858565610	customer

WELCOME PAGE CUSTOMER



EDIT PROFILE CUSTOMER



CAR SELLING PAGE

SellCar Page

Select Company
Maruti

Select Model
Creta

Fuel Type
Petrol

Price
₹ 8,00,000

Km
₹ 8,00,000

Color
White

City
Solapur

Date
mm / dd / yyyy

Car Image
No file selected.

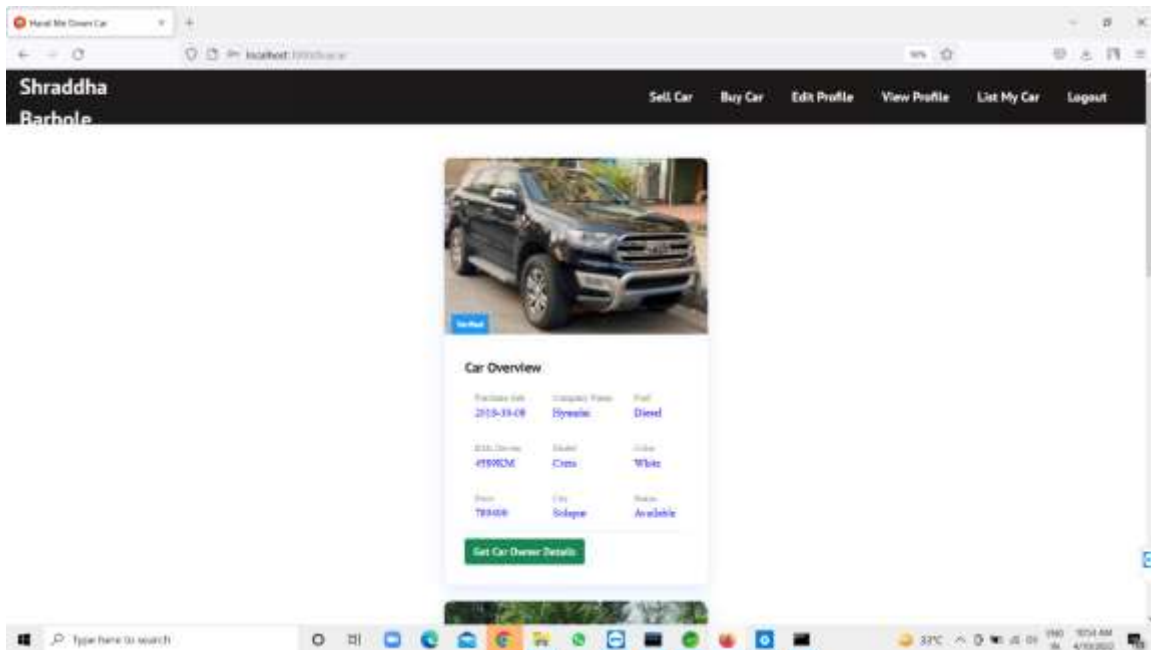
Upload File Submit Car

CAR SELLING LIST

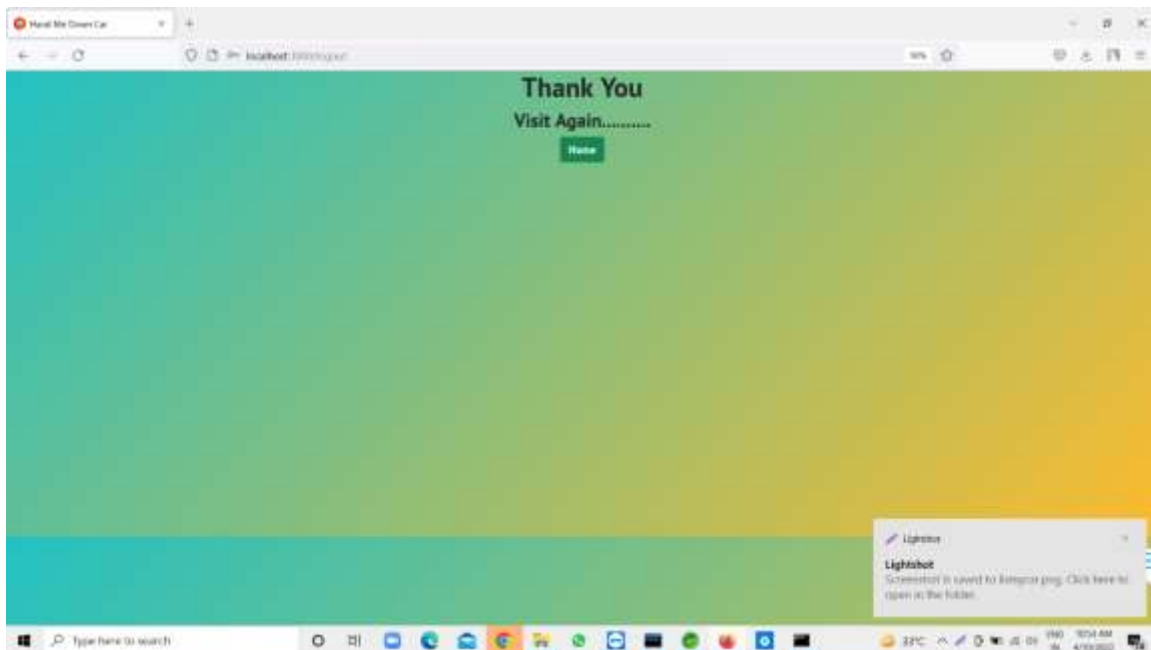
Car Details

Company	Model	Fuel Type	Km	Price	Color	Date	City		
Hyundai	Creta	Diesel	4589	789400	White	2018-10-08	Solapur	Edit	Delete
Kia Motors	Carnival	Petrol	2186	1145400	Maroon	2019-11-05	Pune	Edit	Delete

BUY CAR PAGE



LOGOUT



7.FUTURE SCOPE

Future scope of this project is that it can eliminate the agent and people can directly interact with each other. In future we can add payment gateway services, email and sms alerts, live chat among customers to secure privacy, our BPO to support customers regarding any technical, management or grievance issue.

8.REFERENCES:

<http://www.google.com>

<http://www.w3.org>

<https://www.cardekho.com/>

<https://www.cars24.com/>

<https://reactjs.org/>

<https://react-bootstrap.github.io/>

<https://spring.io/projects/spring-boot>

<https://www.mysql.com/>