PRE-OWNED VEHICLE CATALOGUE

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1.0 INTRODUCTION

1.1 System Purpose

The company wants to find a solution to reuse the old Car and Bike. The system being developed is a system to handle the business needs of old vehicles to customers, maintaining records and data on sold vehicle, operating the portal website, buy vehicles from seller customers, modify the old vehicle and make for resell. The system does not fulfill any other needs of the business.

1.2 System Scope

The functional scope of the system is represented in four different aspects of the system: Admin Module, Web Portal Module for user, modified vehicle details and adding vehicle details.

1.2.1. Admin Module: This module is purely for an administrator of the site. He can view the buyer's request, seller's details and also modify it. He can upload different modified vehicles details of pre-owned vehicles for which sell for customer.

1.2.2. Web Portal Module for user: The scope of the Customer Web Portal is to buy modified vehicles by customers and sell the pre-owned vehicles. The module will interface with the admin module but will not perform any of that module's duties.

1.2.3 Modified vehicle details: The scope of the modified vehicles details is to provide a clear and easy to view layout of vehicles and customers to follow along with this for work out a buy request. As mentioned above the module will interface with the admin module but only perform the request for buy.

1.2.4 Adding vehicle details: The scope of the adding vehicles details is to provide a platform by admin where vehicles owner can fill their details for sell vehicles including all vehicles details and images.

1.3 System Overview

1.3.1 System Context

The system has been designed with four modules in mind. These modules are the admin module, the web portal module for user, the modified vehicles details, and the adding

vehicles details. These four modules will make up the structure of the system. The admin module will be the part of the system administration that is supposed to provide the managing everything that they need to perform their duties. The web portal module for user will be the part of the system that handles the website where the customers will be able to go through a view vehicles, sell old vehicles as well as buy modified vehicles. The modified vehicles details will do as its name suggests and also manage with the various type of filters. The adding vehicles details will be the part of the system that will be used to generate reports from the pre-owned vehicles seller for the purpose of organizing the all types of vehicles details. The admin will be able to interact with the seller to process payment on behalf of the company.

1.3.2 System Functions

The system will be able to buy and also sold out vehicles. The system will be able to view layout of the modified vehicles. The system will keep track of the vehicles which company had sell to the buyer. The system will generate reports for the modified vehicles details.

1.3.3 User Characteristics

The users will be customers which can include buyer and seller people, registered viewers who have already interacted with the company, and also normal viewer who have not register. Other users of the system will be the admin of the store level and a headquarters. The admin will all be using windows desktops to conduct their business on the system but the system will need to accommodate the variety of devices that the customers will have. The customers will have also laptops or desktops running several different operating system for accommodate the full website.

1.4 Definitions

Pre-owned Vehicles modify & Reuse System:

1. Admin Module
2. Web Portal Module for User
3. Modified Vehicles Details
4. Adding Vehicles Details

Actors

1. Admin
2. Sellers
3. Buyers

1.5 Technologies to be used

- Core Java

- Advance Java
- Servlets
- HTML
- CSS & Java Script

2.0 REQUIREMENTS

2.1 External Interfaces

2.1.1 Hardware Interfaces

This System requires following minimum hardware configuration:

R.H.1: Processor: Intel Core i3

R.H.2: RAM: 4GB

R.H.3: Hard Disk: 500GB

R.H.4: CD Drive (optional)

R.H.5: Monitor: 15'' color monitor

2.1.2 Software Interfaces

R.S.1: The system will interact with the server for the purpose of interaction user with

admin R.S.2: The system data needs to be manage by the database management system.

This System requires following software configuration:

R.S.3: Eclipse Oxygen

R.S.4: Apache Tomcat

R.S.5: MySQL

2.1.3 User Interfaces

First of all the user has to search manually and find out those products from the stock, which are available then required (minimum stock) and request to buy for those product to the Company.

Second of all user has to give the details of old vehicles including images which they want to sell.

Third of all normal user can view the layout of modified vehicles without register in the portal.

2.2 Functions

2.2.1 Functional Requirements

Admin:

F1: The system will contain an admin login.

F2: Admin manage the pre-owned vehicle seller details whenever a vehicle has to buy by the administrator of the warehouse the request of the seller will be remove from the portal site and store in a different database which have to manage only by the warehouse administrator.

F3: The old vehicle will be modified by the warehouse if required.

Modification By:-

M1: Interior Color and modification

M2: Exterior Color

M3: Repair External Damages

M4: Repair Engine Damages

M5: Tyres Type modification (optional)

M6: Audio & Video System include

M7: Tracking System (optional)

F4: Details of modified vehicles upload on the portal for sell with include respective price. **Details of Vehicles:**-

MVD 1: Company name

MVD 2: Model

MVD 3: Body style

MVD 4: Year of first purchase by owner

MVD 5: Engine capacity

MVD 6: Number of gears

MVD 7: Fuel type

MVD 8: Top speed

MVD 9: Horse power

MVD 10: Interior color

MVD 11: Exterior color

MVD 12: Images

F5: Prepare a page for getting buyer Information and request.

F6: Provide third party insurance for the modified vehicles.

F7: Manage also the buyer request.

Buyer:

F8: The system will contain a buyer login.

F9: View the portal for searching modified vehicle according to their requirements with the help of filter.

F10: Select the vehicle which they want to buy and select buy option.

F11: In buy option buyer have to fill their details for buying request.

F12: Once the request have generate the buyer receive a confirmation by the warehouse and the information send to the warehouse administration.

F13: Wait for the reply from warehouse administration.

Seller:

F14: The system will contain a seller login.

F15: Seller have to fill their contact details for verification and also to communicate with the warehouse administration.

F16: Seller have to fill the old car details form which they want to sell included

images. **Old vehicle details:**-

OVD 1: Company name

OVD 2: Model

OVD 3: Version

OVD 4: Color

OVD 5: Fuel type

OVD 6: Alternate fuel

OVD 7: Number of owners
OVD 8: Make year & month

OVD 9: Kilometer driven

OVD 10: Insurance type

OVD 11: Expected price

F17: Once the request have generate the seller receive a confirmation by the warehouse and the information send to the warehouse administration.

F18: Wait for the reply from warehouse administration.

F19: Seller have to grant a permission from the warehouse administration for modifying the details which they already generated.

Normal user:

F20: Normal user don't have to registration on the portal.

F21: They only view the layout of the portal without any activity.

F22: Once they want to perform any activity like buy or sell then they have to register first on the portal.

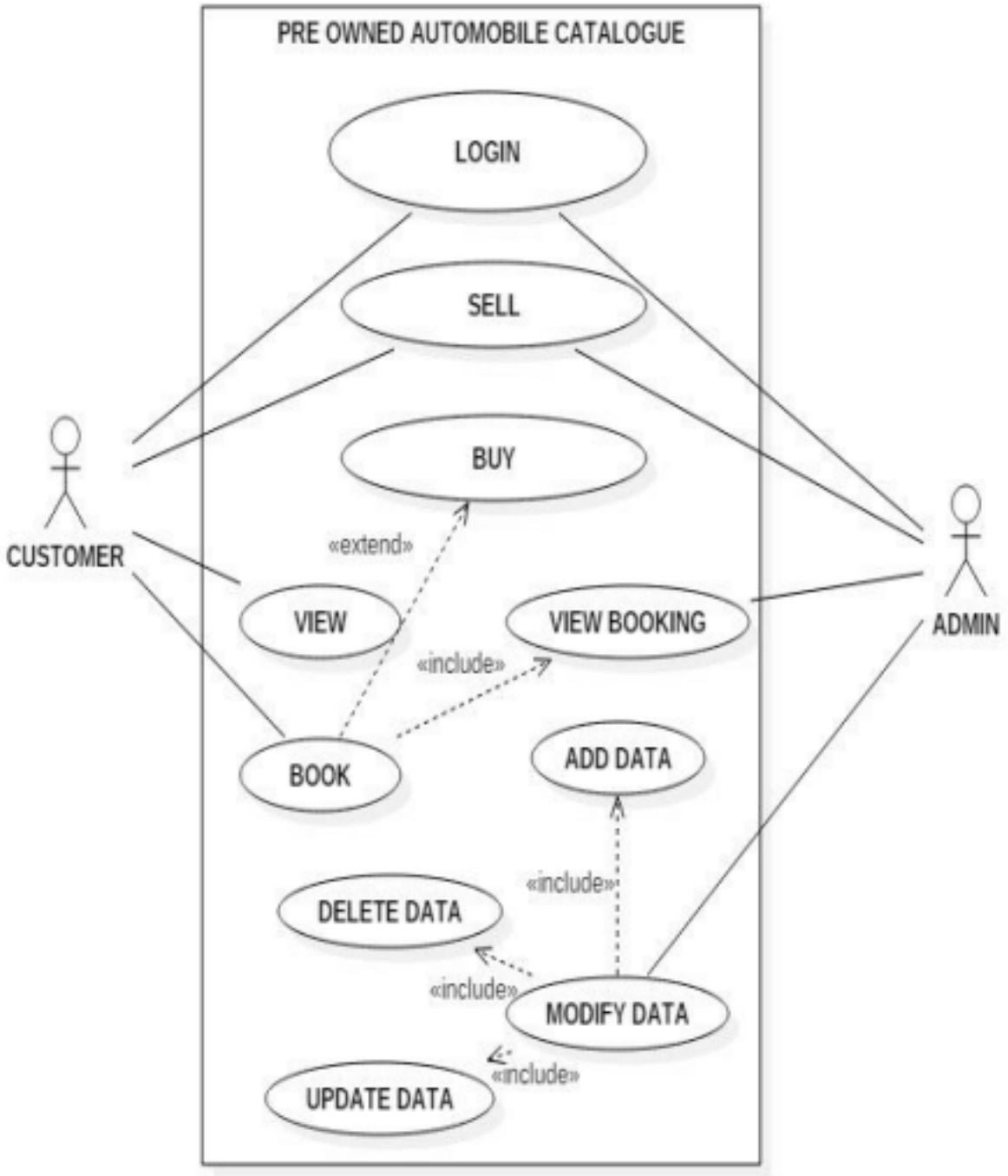
2.3 Design Constraints

The system will be constrained by operating software of the host system and will need to be able to function on the different internet servers

1. The system will need to function on major internet operating software including Internet explorer, Firefox, Chrome, Safari, Opera, and Android.
2. The system will be constrained operating software of the host computer which is windows.

2.4 Entity Relationship Diagram

2.5 Use Case Diagram



2.5.1 Use Case Description

Admin:

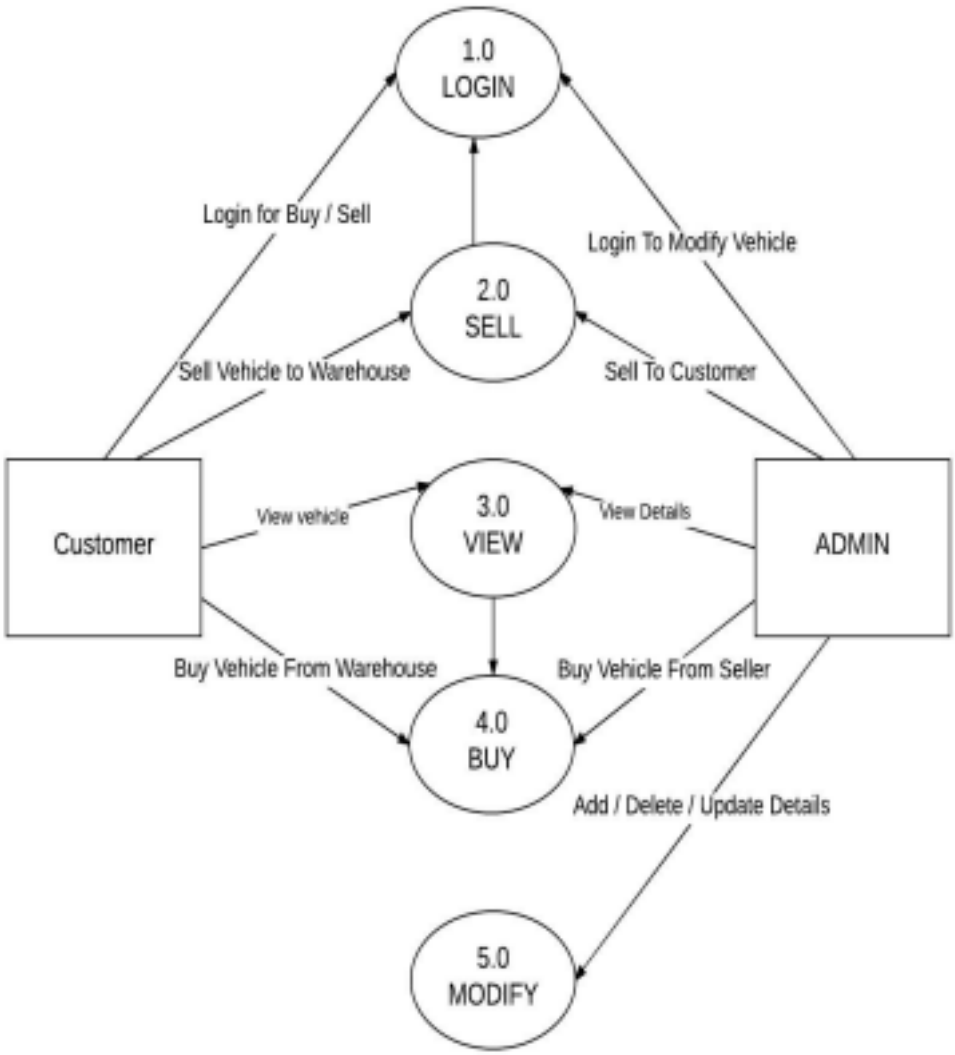
• Admin will login the System.
• He will check the database, requests and orders.
• He will modify the database after checking the requests. • He will buy vehicle from the customer who wants to sell old vehicle. • He will sell the modified vehicles to the customer as per requirement.

Customer:

• He will login according to Id.
• He will view the vehicles according to his requirements. • He will book the vehicle to buy.
• He can also sell his old vehicle to warehouse.

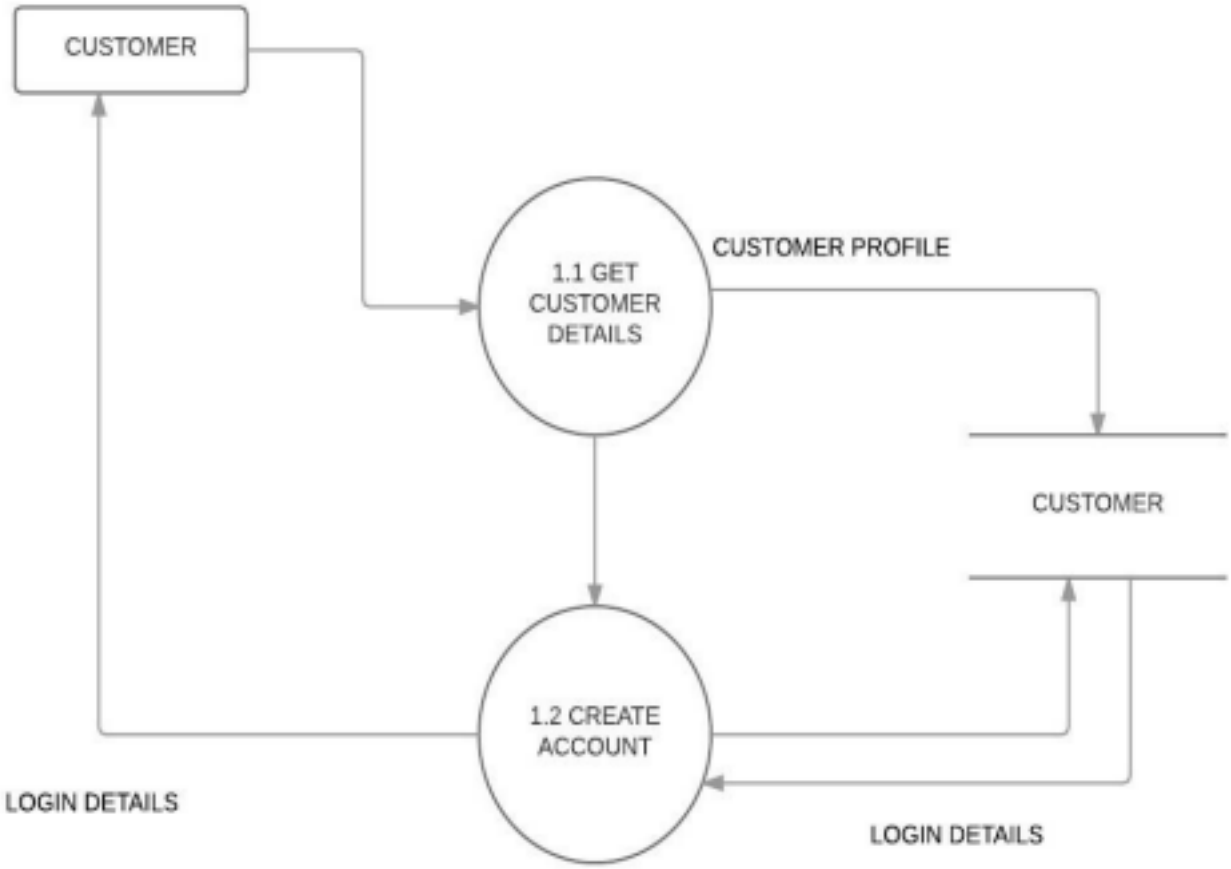
2.6 **Data Flow Diagram**

2.6.1 **Context Level Diagram**
2.6.2 **Level 0 Diagram**

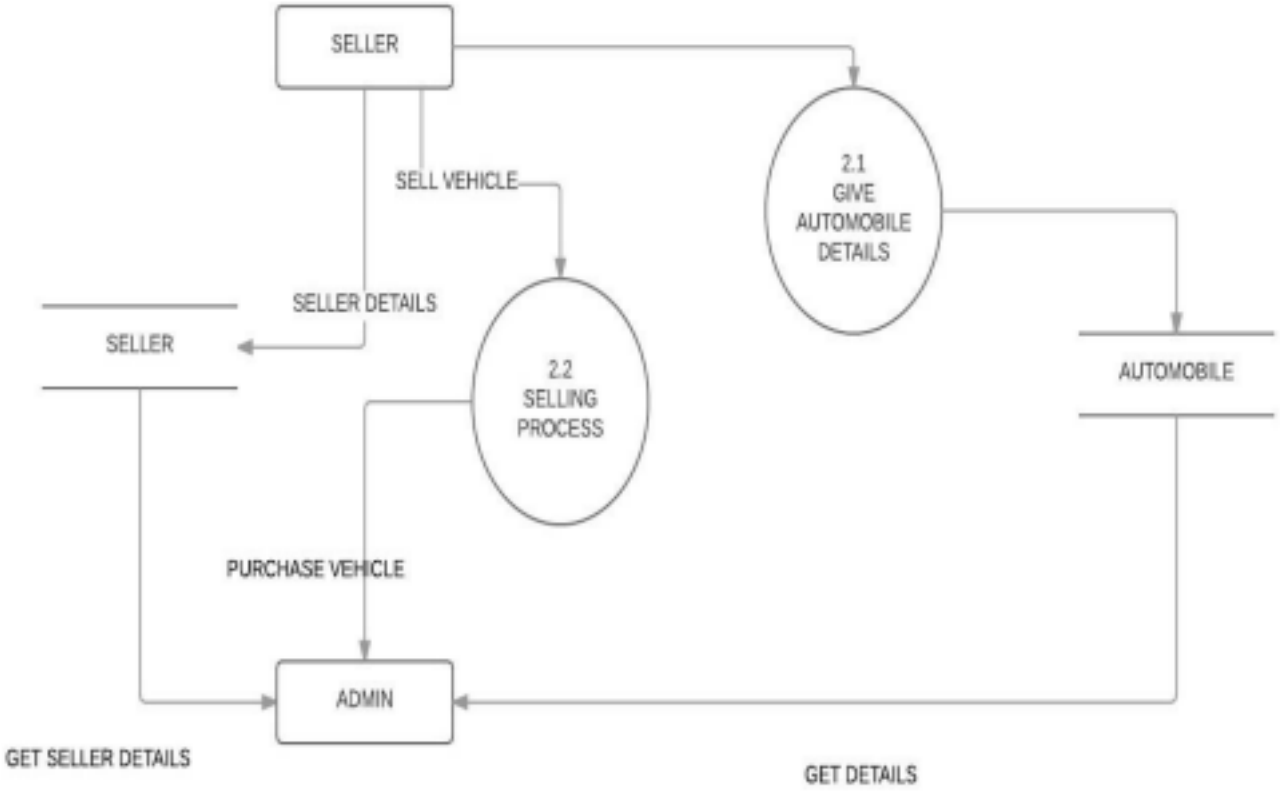


2.6.3 Level 1 Diagram

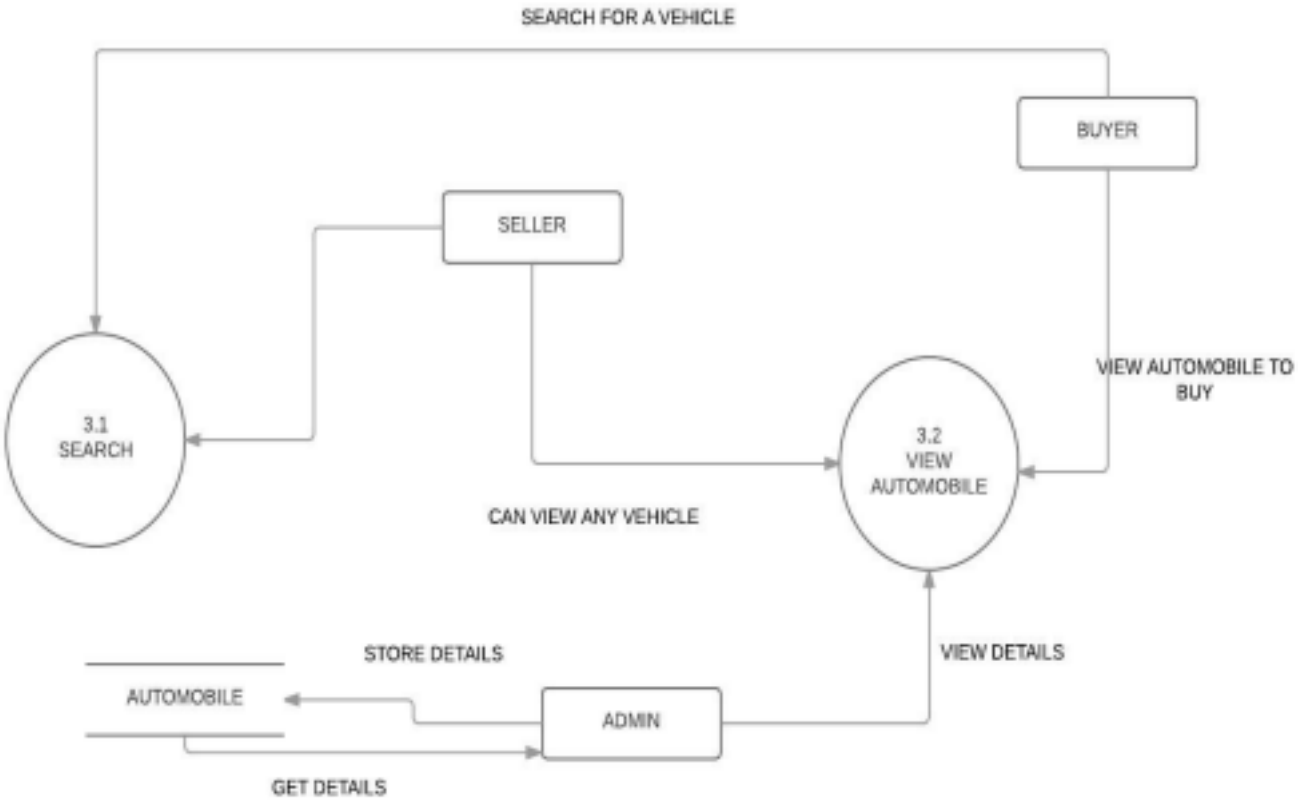
2.6.3.1 Login


CUSTOMER
1.1 GET CUSTOMER DETAILS
CUSTOMER PROFILE
CUSTOMER
1.2 CREATE ACCOUNT
LOGIN DETAILS
LOGIN DETAILS

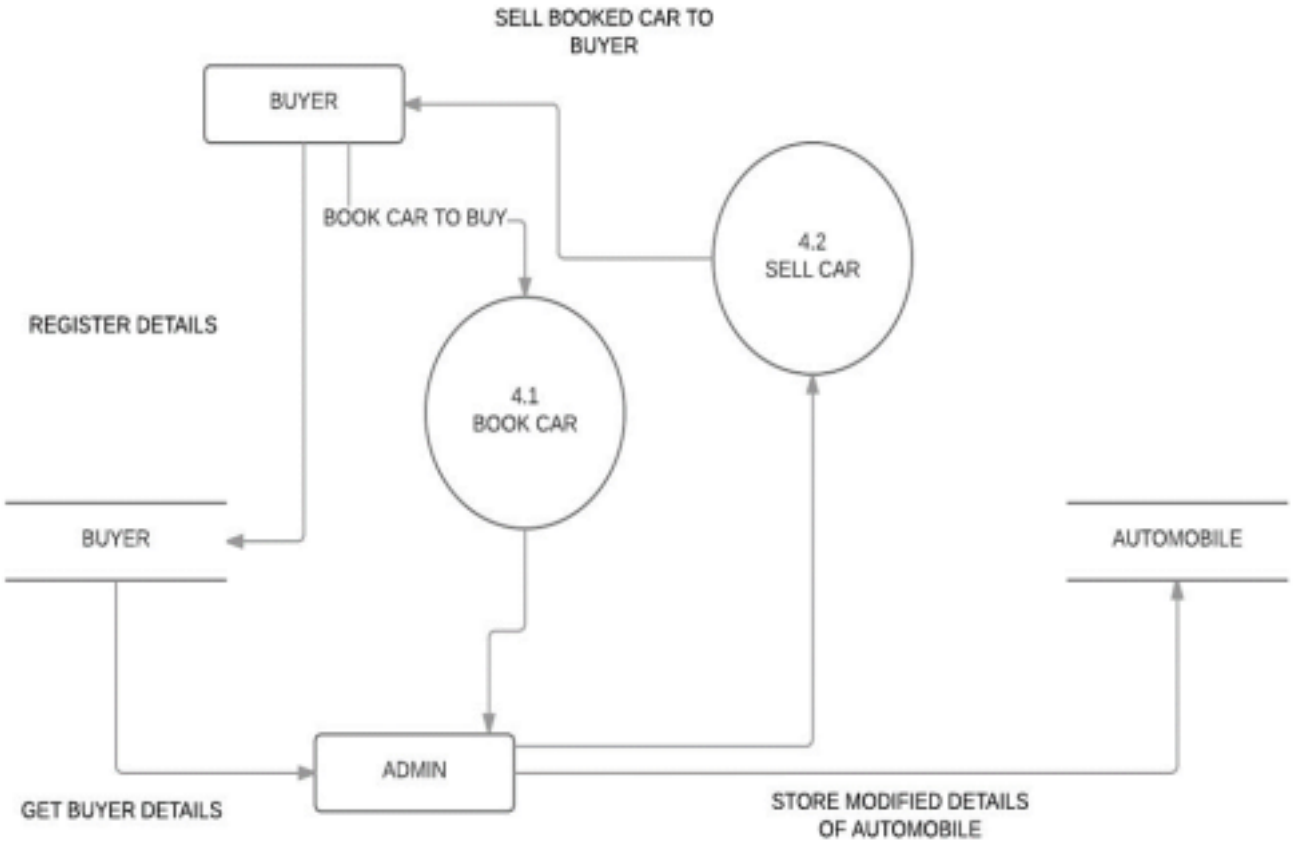
2.6.3.2 Sell


SELLER
SELL VEHICLE
2.1
GIVE
AUTOMOBILE
DETAILS
SELLER DETAILS
SELLER
2.2
SELLING
PROCESS
AUTOMOBILE
PURCHASE VEHICLE
ADMIN
GET SELLER DETAILS
GET DETAILS

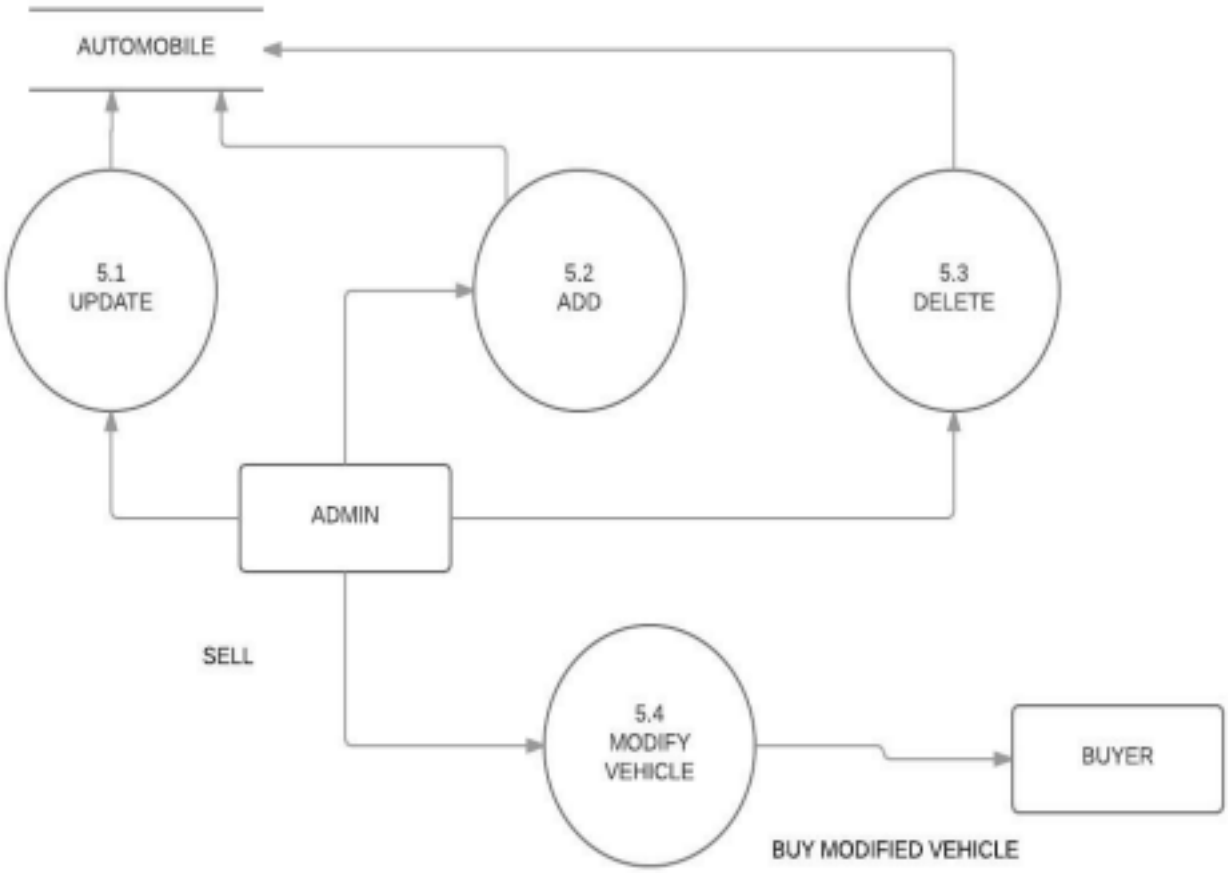
2.6.3.3 View


SEARCH FOR A VEHICLE
BUYER
SELLER
3.1
SEARCH
VIEW AUTOMOBILE TO
BUY
3.2
VIEW
AUTOMOBILE
CAN VIEW ANY VEHICLE
STORE DETAILS
VIEW DETAILS
AUTOMOBILE
ADMIN
GET DETAILS

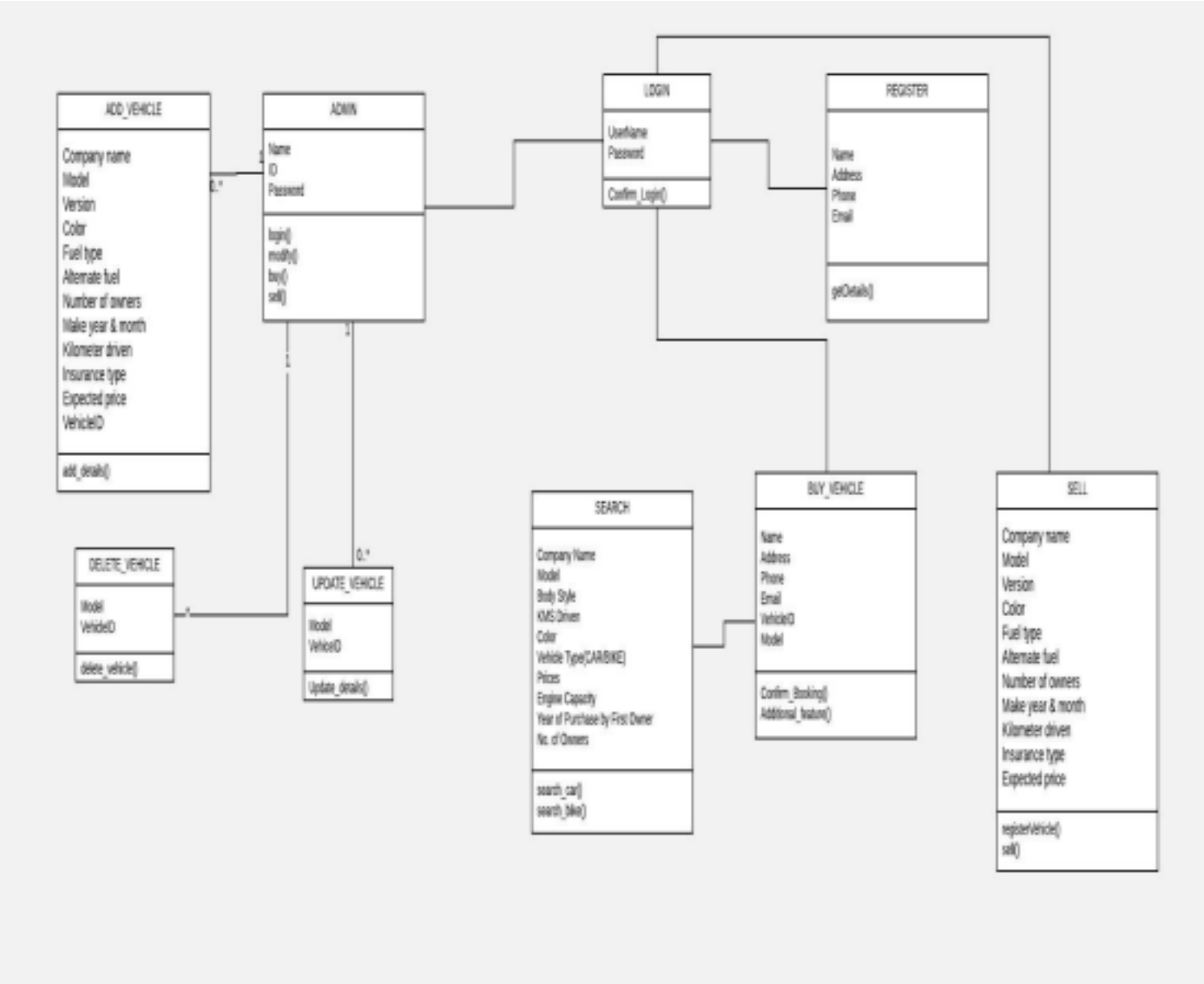
2.6.3.4 Buy


SELL BOOKED CAR TO BUYER
BUYER
BOOK CAR TO BUY
4.2 SELL CAR
REGISTER DETAILS
4.1 BOOK CAR
BUYER
AUTOMOBILE
ADMIN
GET BUYER DETAILS
STORE MODIFIED DETAILS OF AUTOMOBILE

2.6.3.5 Modify

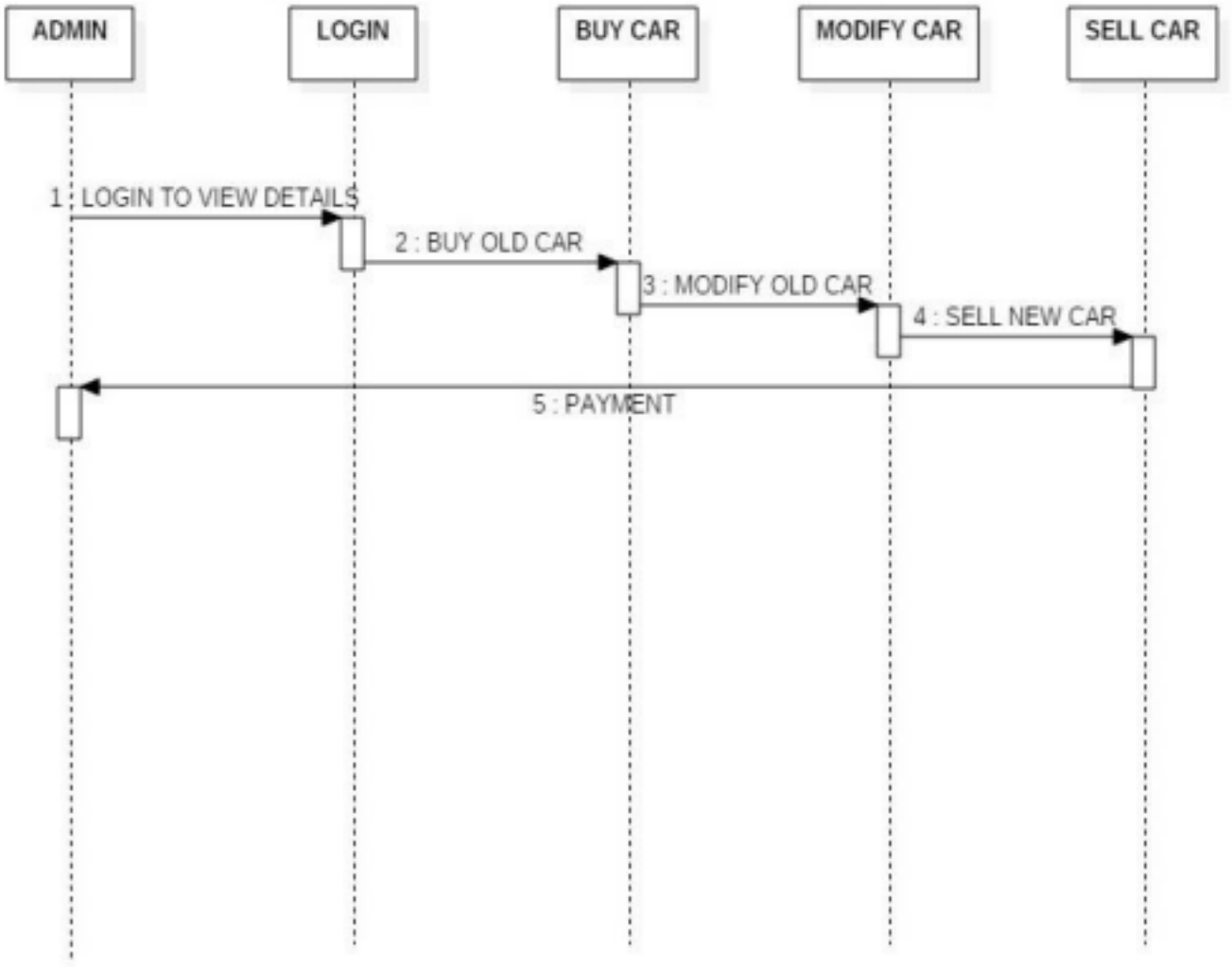


2.7 Class Diagram

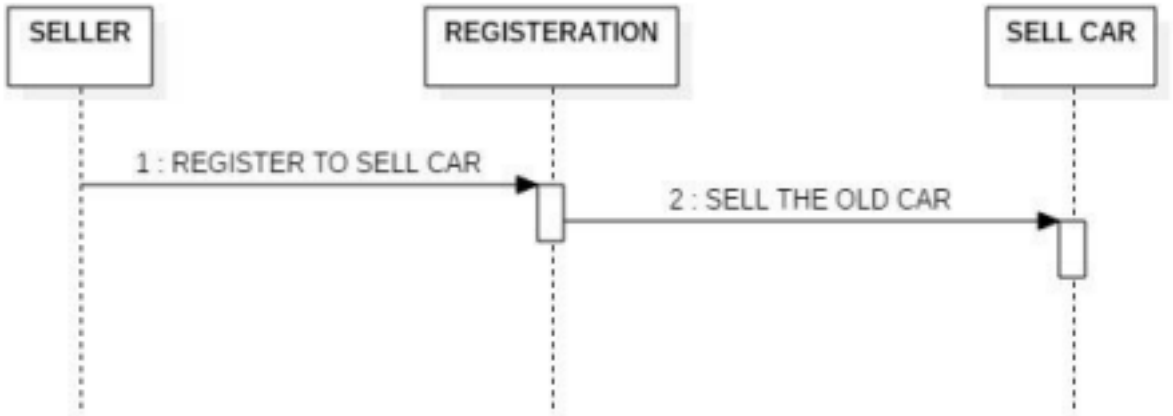


2.8 Sequence Diagram

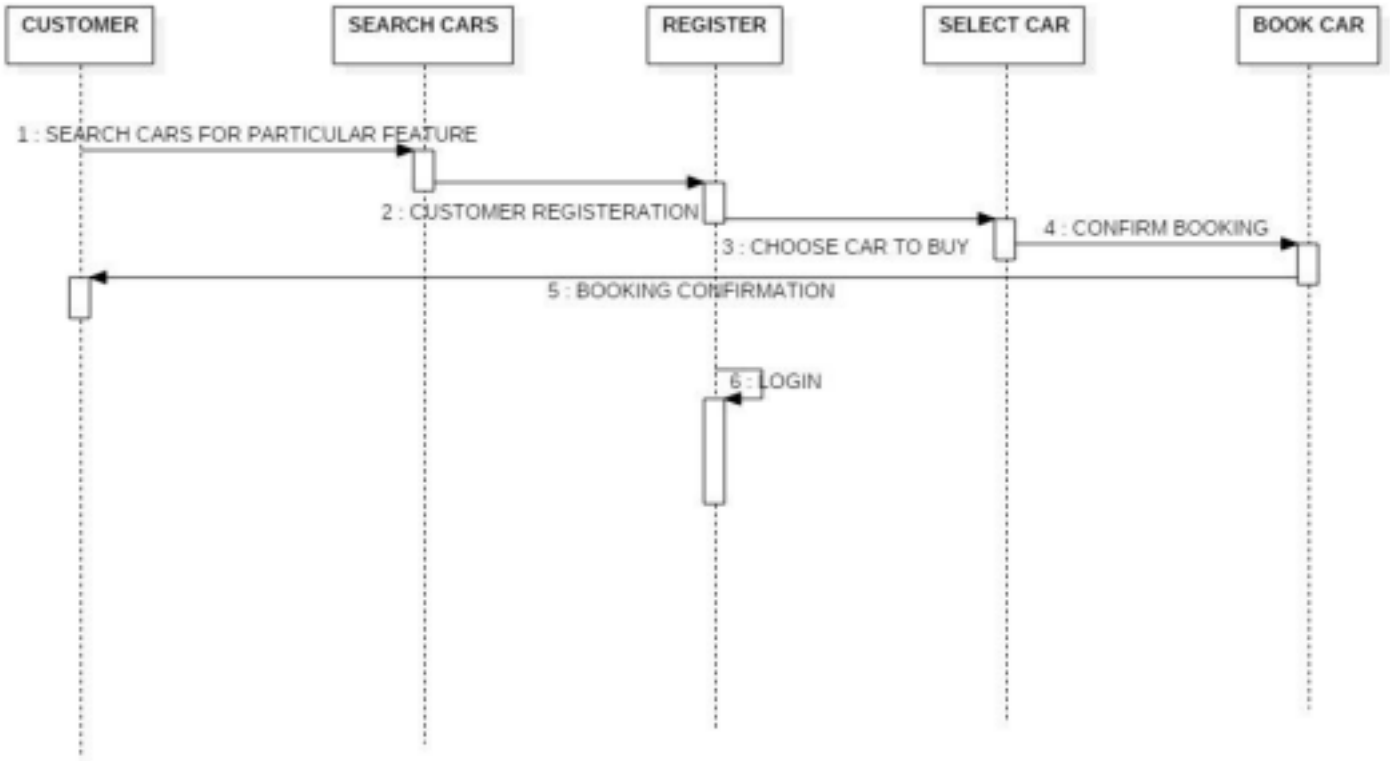
2.8.1 Admin Sequence Diagram



2.8.2 Seller Sequence Diagram



2.8.3 Customer Sequence Diagram



3.0 CONCLUSION

The pre-owned Automobile Catalogue is one step towards the digital world and refurbished the old car and bike where customer can buy or sell any type vehicle according to their requirements. It helps to release the vehicles with a new modification. The design and implementation of this system environment is such that customer could search the refurbished vehicles and also genarated request for their activity. After analyzing the cost benefit analysis of the current system, we conclude that the automated system is best. It also reduces the burden of work and wasting time to searching old vehicles.

The system is highly user friendly and is well efficient to ease interactions with admin and customer. The system is done with aninsight into the necessary modification that may require in the future. Finally the total system can be maintained successfully with any man power.