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ROLL NO:MA054

SUBJECT:SOFTWARE ENGINERRING

Practical 2

Software Requirements Specification (SRS)

1.Introduction

1.1 Purpose:

The purpose of this SRS documentation is to maintain all the function and the specification of the online garage services system it contain al the description of the requriment of project.

1.2 Documentation Conventions

This SRS documentation is written in the Microsoft word and having highlighted on the the main points with the red color

1.3 Scope

The scope of this project is to provide online garage services,with the help of that the customer is able to book there care services through this web app

1.Register in to the application(If you are new)

2.Login into application

3.User Can edit his profile

4.User can search for the services

5.User can able to see the Sparparts for the car

6.User can View the service detail and status of service

7.User can able to make payment

8. Owner can manage user related information like (mobile no,Emailid)

9.Owner is able to manage the Sparparts available

10.Owner can also able to manage services regarding details

11.Owner also able see the pick up and drop time

12.Owner Can get the detail of the payment done by the user

13.Moderator Can handle the availability of the stock

14.Moderator can take care of the services in the garage

15.Moderator manage the detail of the customer

1.4 References

1. **IEEE standards for software engineering, Standard 830 includes guidance and recommended approaches for specifying software requirements**

2.WWW.google.com

3.Nodejs documentation/nodejs.org (For the back-end purpose), Mysql.com(For the database purpose)

4.Reactjs documentation(For the front-end purpose)

5. IEEE 29148 statndars

1.5 Overview

After giving a introduction about the project the body of the report is divided into two parts

1.This parts consist of the full description of the function,there properties,their aims and the requirement of the project

2.This information conation the detail of the fuctions available in the project of the development and the function constraints

2.Overall Description

2.1 Product Prespective

Online garage services related to the cars provides a cars repairing services with the interface environment using the react js(front-end).And also there will be a database which will keep all the records that done by the user using the Nodejs and mysql(back-end,database)

2.2 Product Function

1.Register to the system through web browser

2.Login to the system

3.Serch the services related the cars

4.See the Status of the garages for the services availability

5.Also able to see the payment reagarding the services they had done before

6.Also able to see the availability of the sparparts in the garages

7.As a user they are able to select there appropriate time for the services

8.Onces they have booked any services they able to track there services that in which stage the car is there

9.user is also able to cancle the services,And also able to add,remove and update services

10.logut from the web app

2.3 User class & Characteristics

Three classes of user are there

=>Owner

=>Moderator

=>user

1.Owner

-Owner can have all the access in this web app related to the users and the services regarding the garage

-Owner is responsible for the maintaining and upadating the whole system

-like adding the services,Sparparts and other informative information where added or handel by the owner in this web app

2.Moderator

-Moderator will take care of the services which are there in the garage and regarding work related to the services which available in the garage

-Moderator will also take care of the other works in the garage and see that the remaining work is done on its appropriate time or not

3.User

-User are the people who are taking the services for there cars and select the appropriate services available in the web app,They are able to book there services with the help of this web app

2.4 Operating Environment

This system can run on web app and also in the mobile device using browser like google crome,firefox,browser and with all the browser

2.5 Design & Implementation constraints

a.Hardware limitation :There are no hardware limitation

b.Browser suppot:Run on any browser which is available to the user

c.Interactive to other web app:No

d.Parallel operation:No

e.Safety and Security Consideration:The password and a valid username are the security issue.Date protection satisfied by backup process at the server side

f.Relaibility Requriment:Total number of bugs in the system not be excced,The total number of code expected connection reliability which is out of our range.

2.6 User Documentation

One help page is provide in web app in that page all the feature like

-how to search

-how to book service

-how to update services

-how to do the payment

All the thing mention on that page with Appropriate gudience and instruction with all the pages screenshot

3.User Interface Requirments

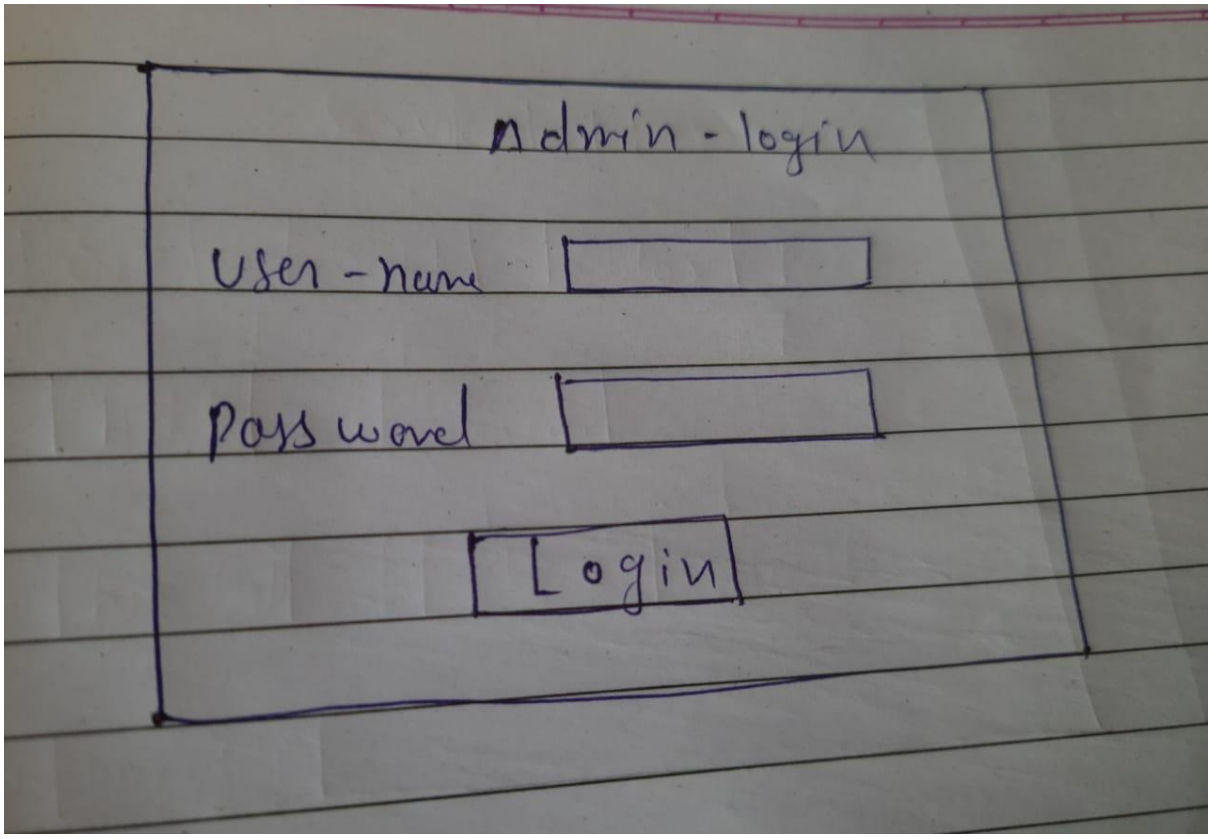
3.1 User Interface

Owner

-Owner are able access all the detail regarding the services available in the web app

-Payment regarding things where also handle by the owner

-Login for the Owner



Moderator

-Manage booking of the customer

-Manage services of the cars available in the garage

-Manage other moderators in the garage

-Login for the Moderator

User

-user can login/register in to the system

-Search for the services

- user are able to book there services as per the time and day at which they want to go for the car services as per availability of the dat and time of the particular selected

- user able to modified like add,remove or delete the that particular services If they want to

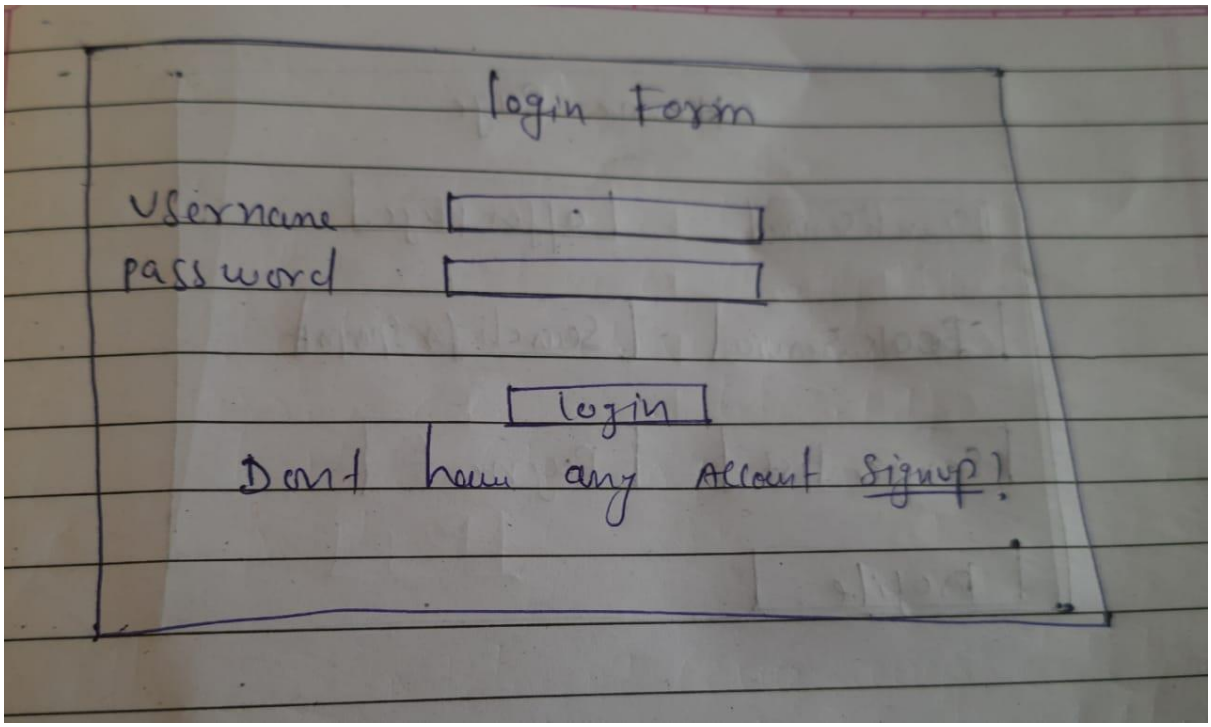
- user are also able to make payment for the particular services

-And get the conformation on the mailor a register mobile number

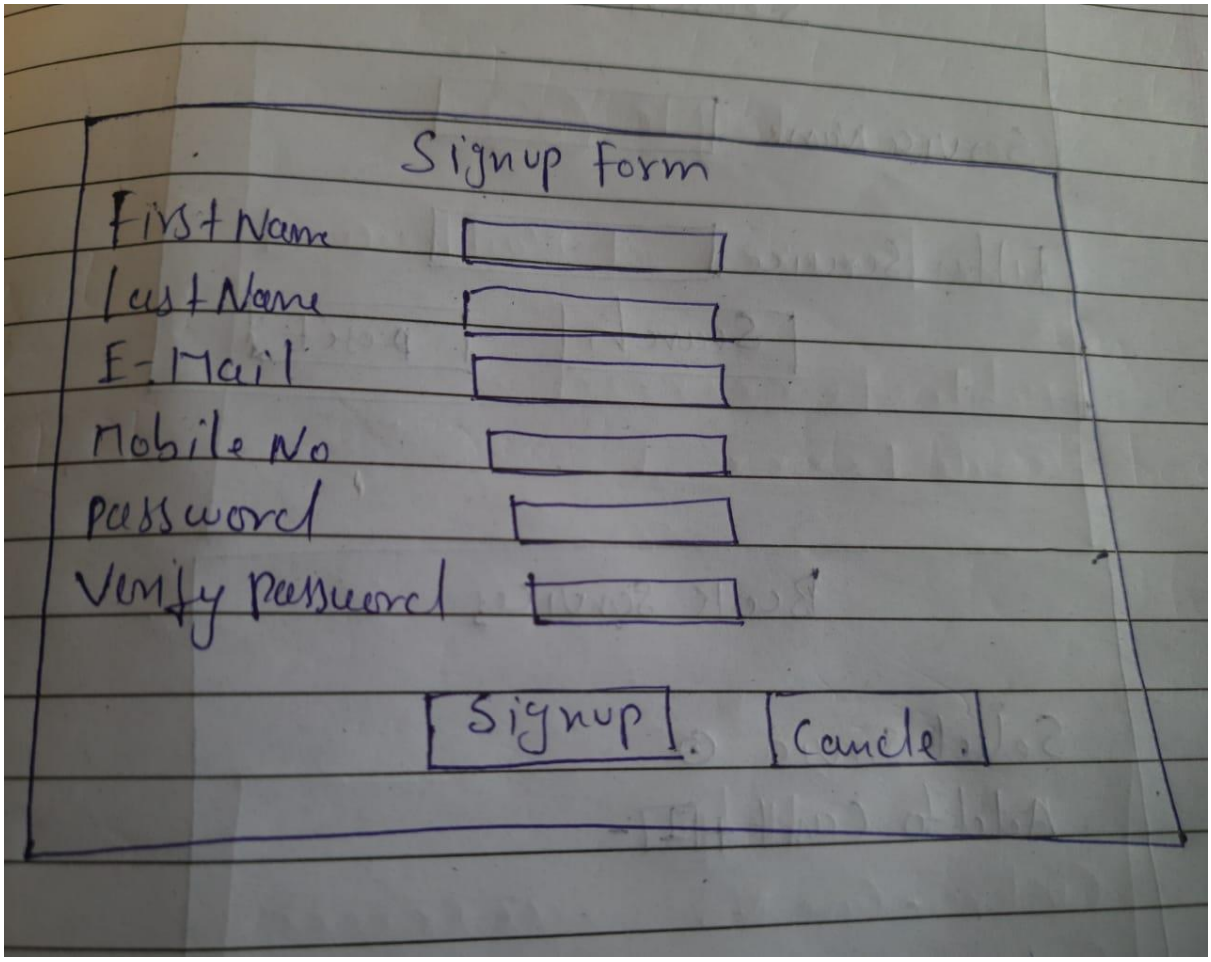
3.2 Hardware Interfaces

-This system must be run over the internet through the web browser so there is no such hardware is need just a simple computer is need with the basic specification

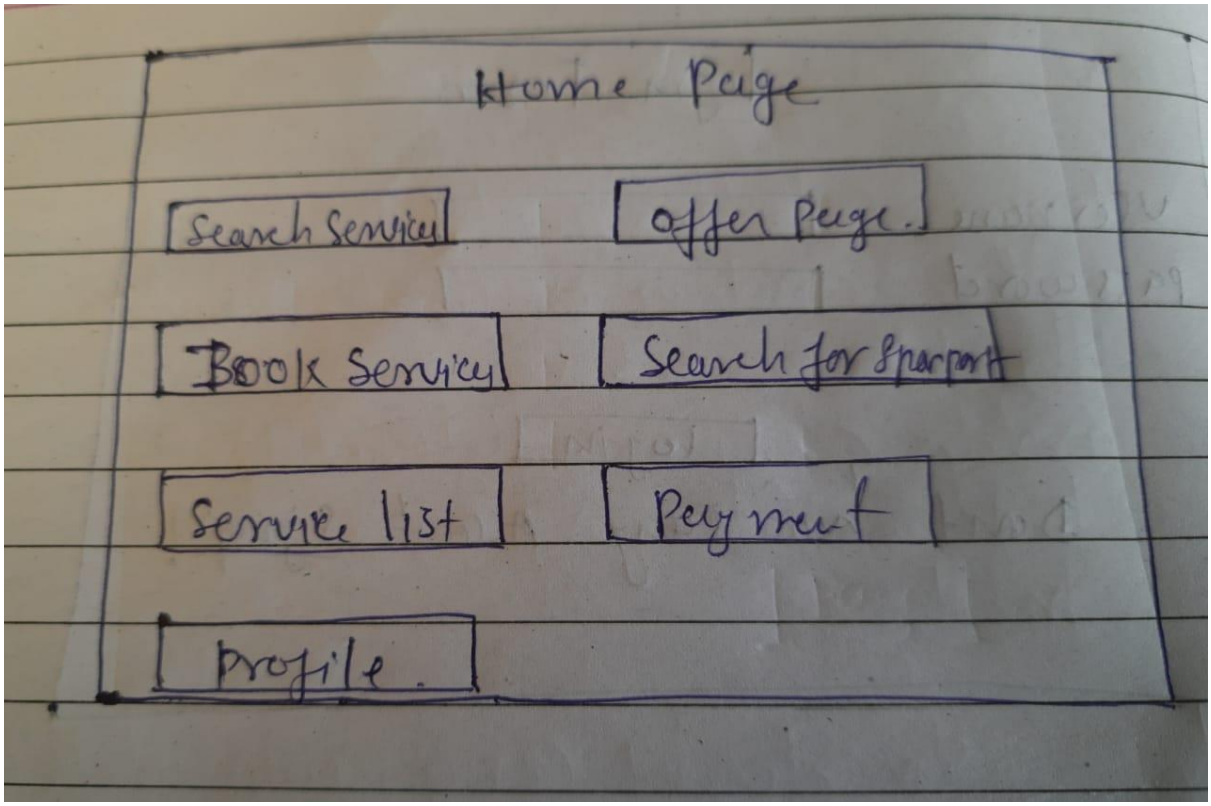
-login for user



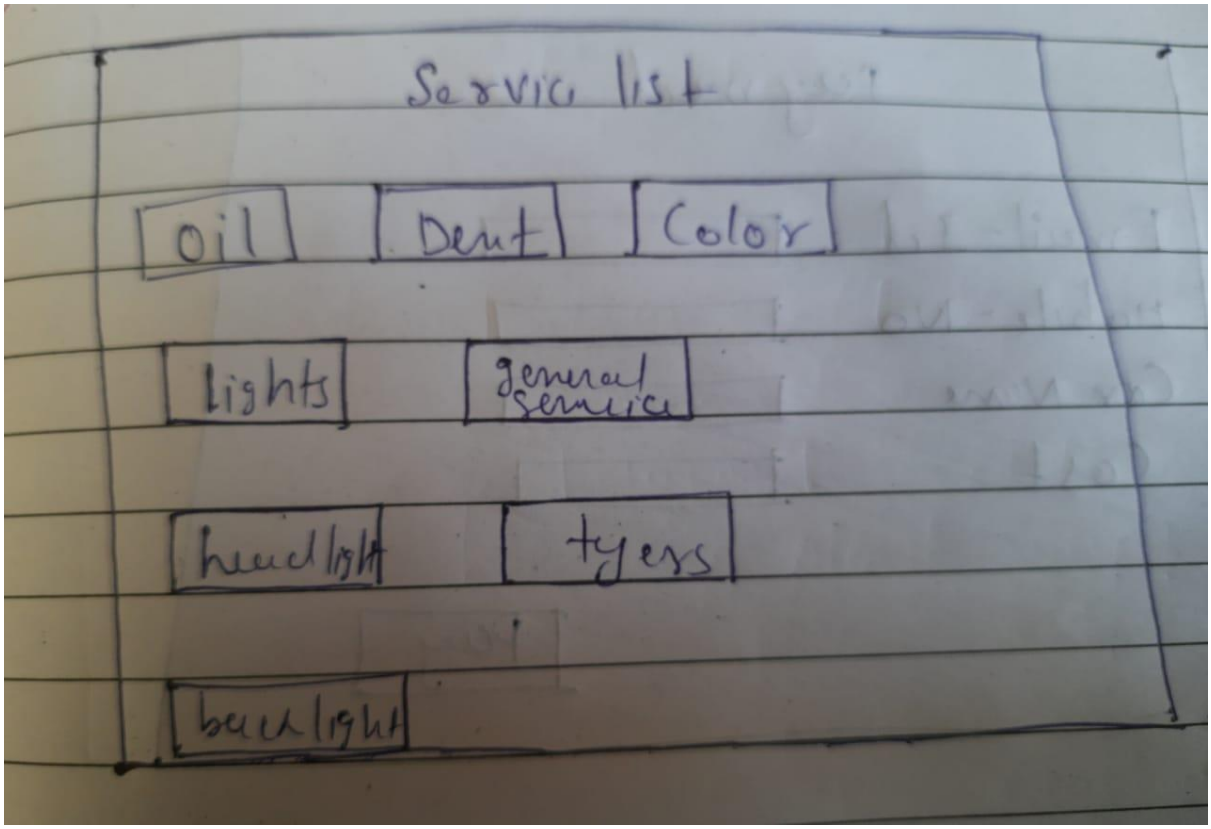
-Register for user


Signup Form
First Name
Last Name
E-Mail
Mobile No
password
Verify password
Signup
Cancle

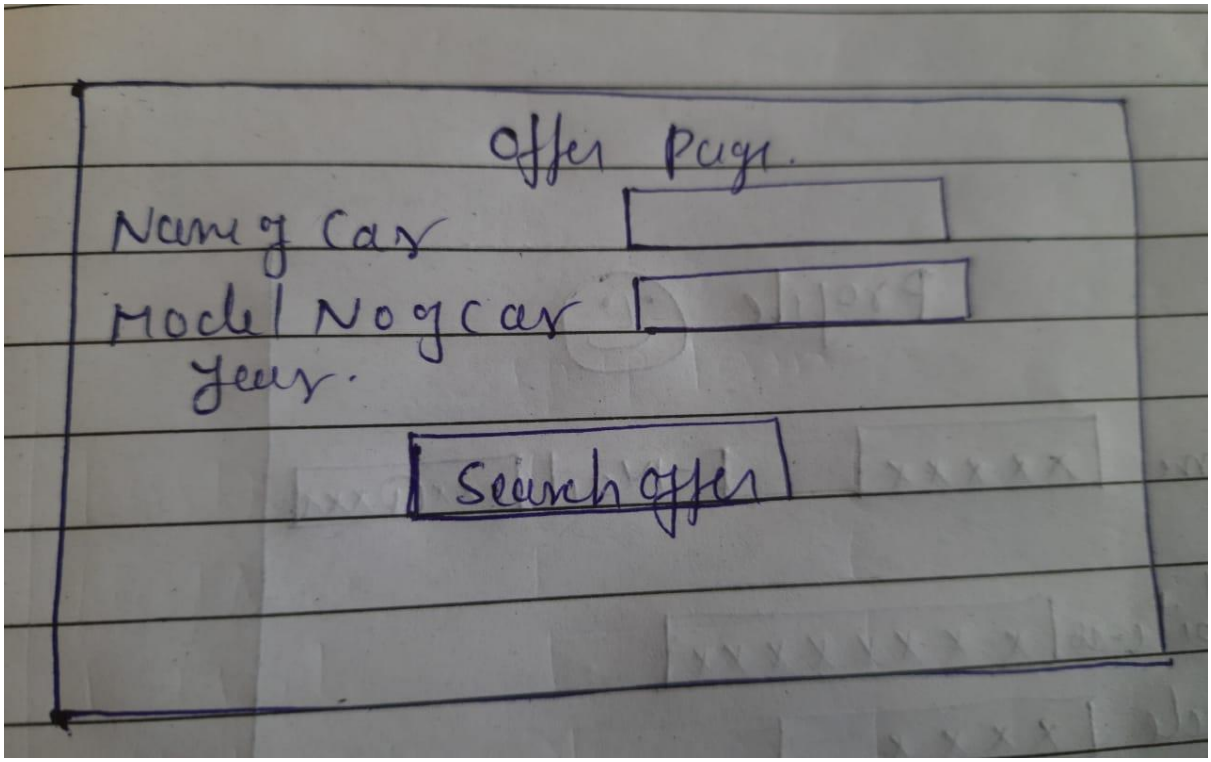
-Home page



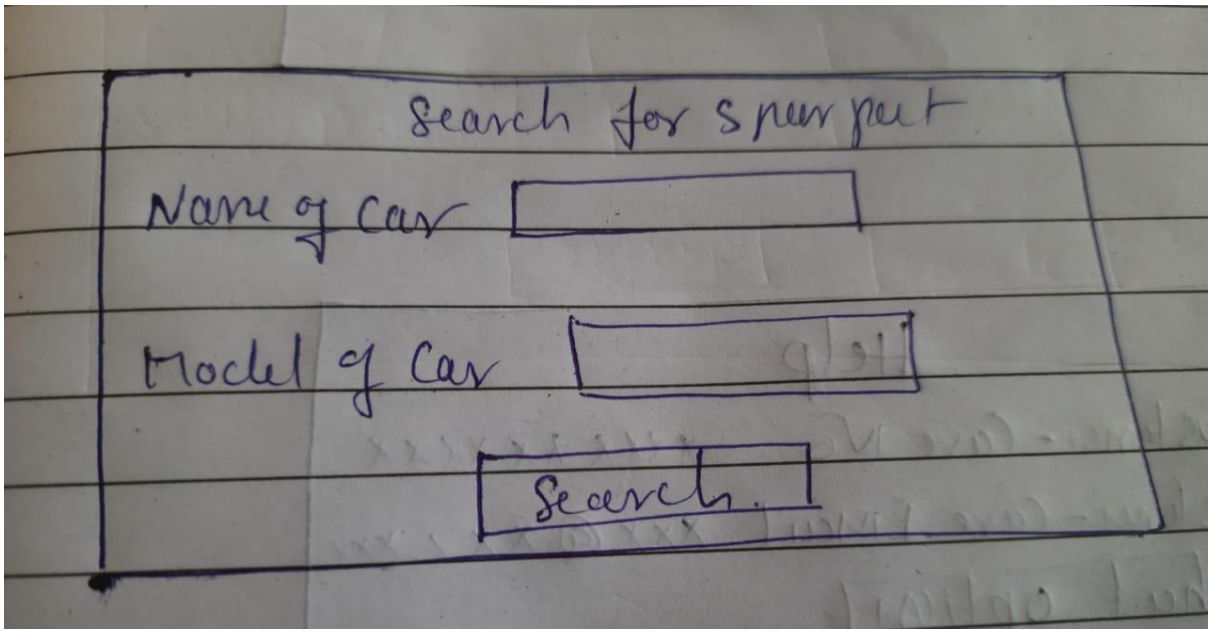
-Services list



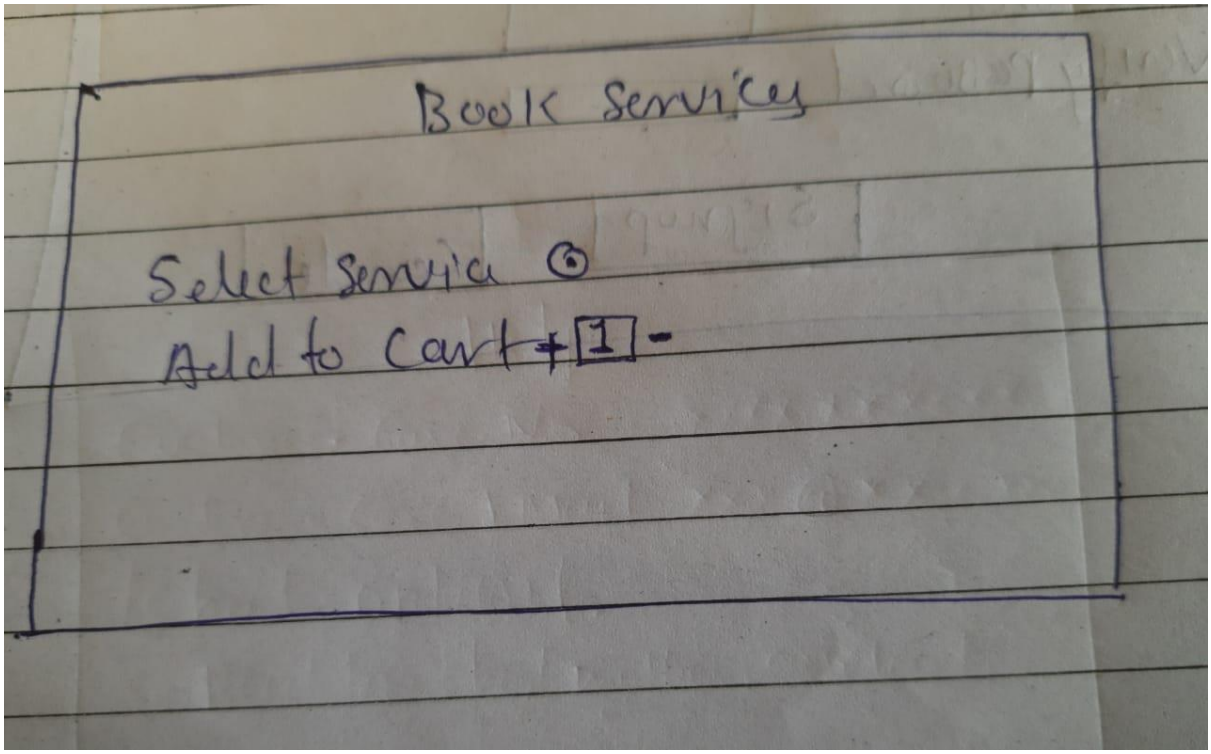
-Offer page



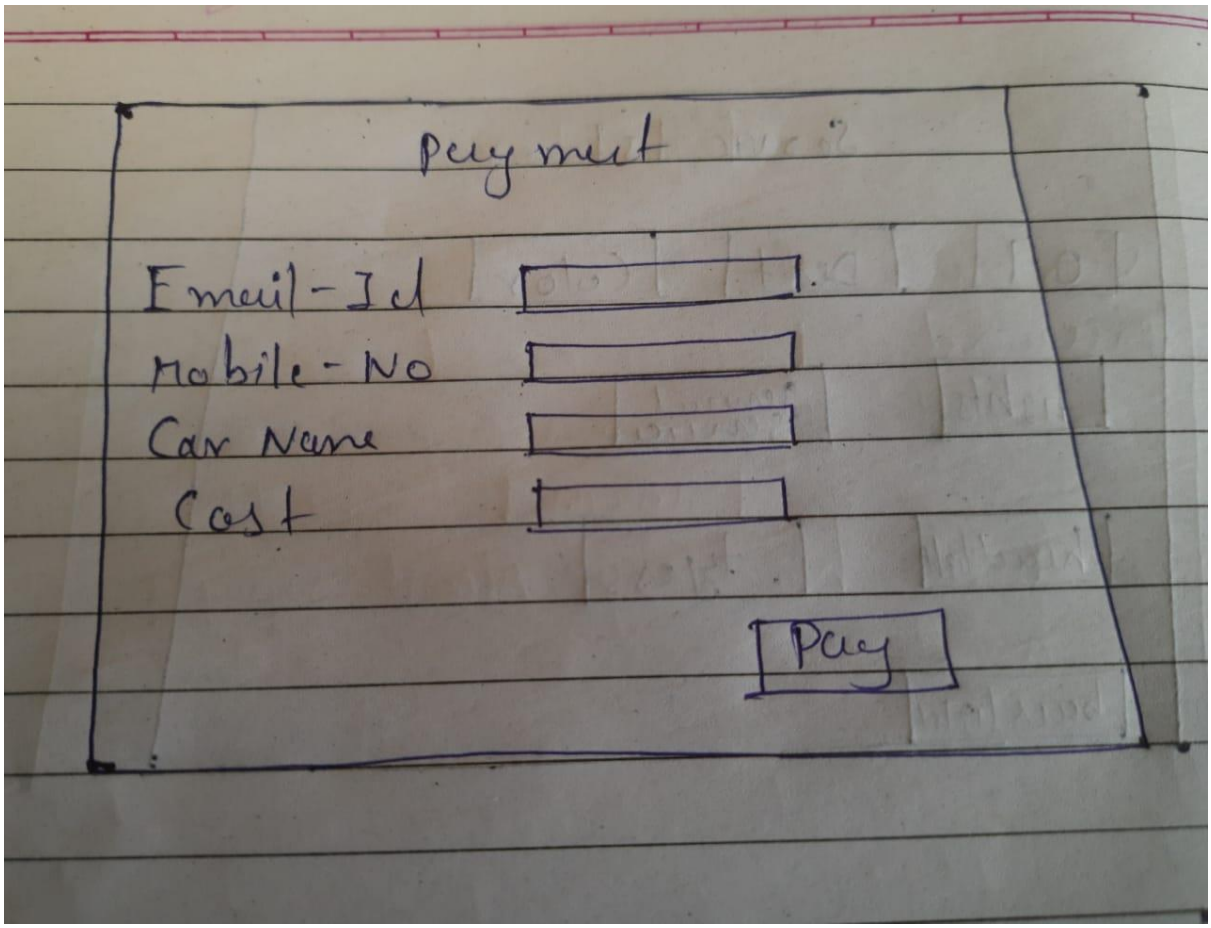
-Search for spaerparts



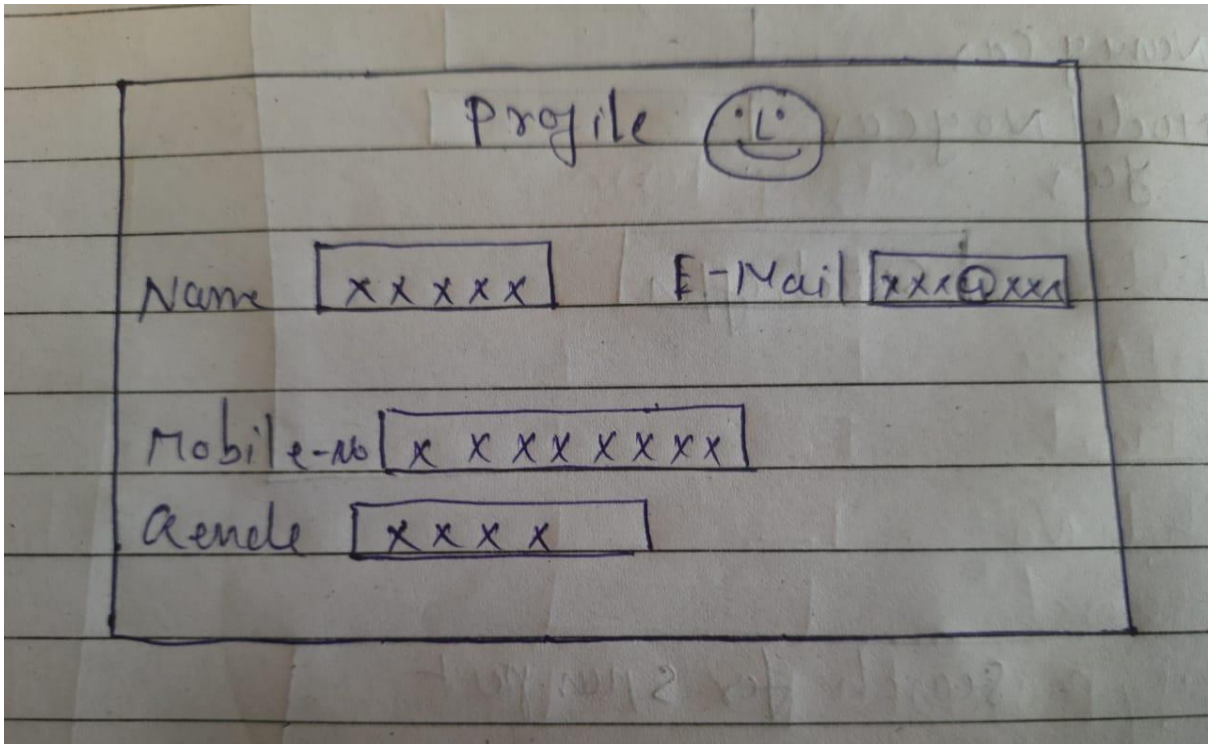
-Book Services


Book Services
Select Service ⊙
Add to Cart + [1] -

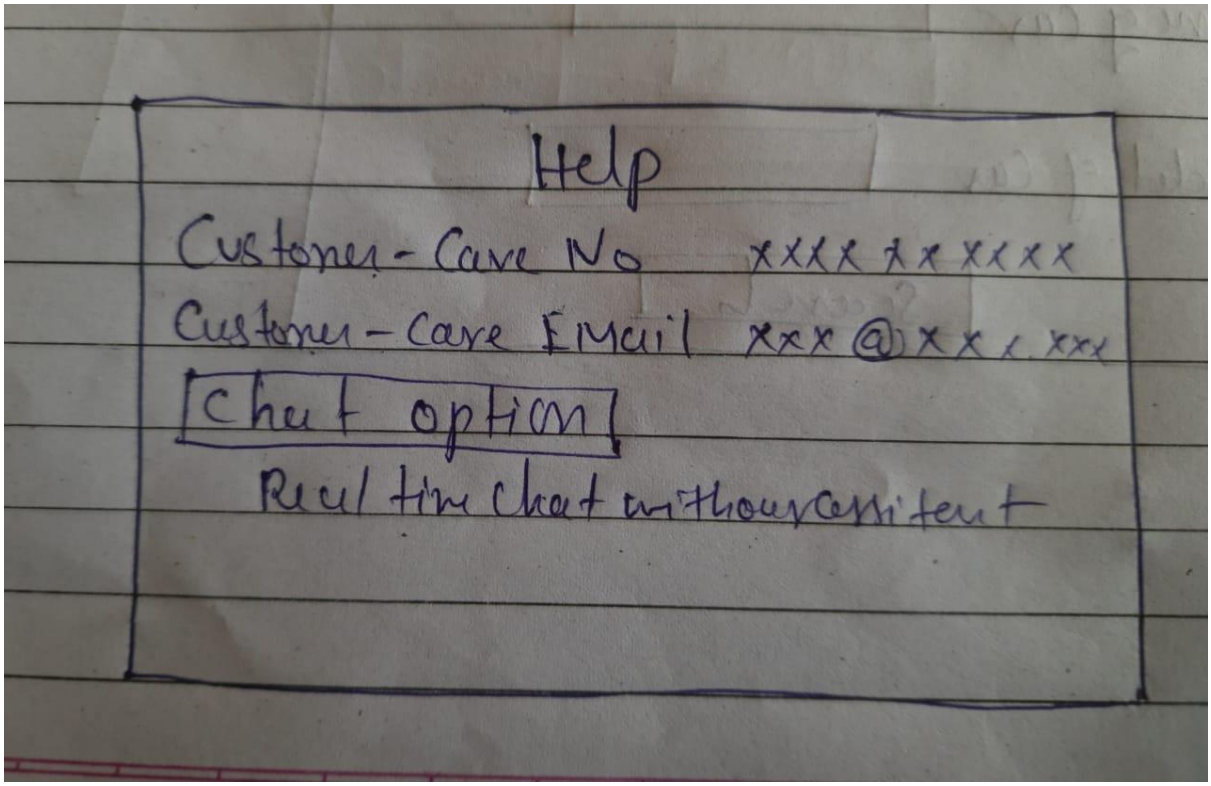
-Payment


Payment
Email-Id
Mobile-No
Car Name
Cost
Pay

-Profile



-Help



-Run on any kind of browser like google crome,firefox,browser,edge.

3.3 Software Interface

-React js and node js(For the user interface front-end development and for the backend development for managning the user data and admin data)

-pc:Ram of 8gb,and Rom(ssd)-256gb

For database mysql 5.2.6 is required

3.4 Communication Interface

For the communication purpose the device should be fully connected through internet

4.System Features

4.1 Registration and login

4.1.1 Description & priority

If the customer want to book the services related to there cars than they should have to register first in the application with all the appropriate detail(like mobile number and email id)

4.1.2 Response sequence

When user login or register to the application the user gt pop up screen on that particular screen an redirect to the home page and also get the email reagarding the login or register ex:That xyz@gmail.com you have login successfully

4.1.3 Functional Requirment

Database should be control by the owner to keep track of all records of customer details for future purpose

4.2 System Feature

4.2.1 Description & Priority

Customer can view the services which they have booked for there car and are able to track the status of there services

4.2.2 Response Sequence

When the booked the service the customer recive the mail regarding the services and also get the detail regarding the free pick up from there home

Once the services is done than also the customer recive the mail for the free drop of there car

4.2.3Function Requirment

System allow user to track the services regarding information and also allow the user to track there services

5.Other non Functional Requirments

5.1 Performance Requirment

-Better component design to get better performance for the users.

-The system should be available for the user for the 12 hours(8 Am to 8 Pm).

5.2 Safty Requirment

-In the case of the hardware failure or database corruption a replacement page will be shown and backup of the database should be retrived from the server and saved by the owner

5.3 Security Requirment

-The system must be secure for the customer translation detail

-The system will be automatically logout after 24 hours

5.4 Software quality Attribute

-The availability of the product is any time anywhere through internet connection

5.5 Bussiness Rules

-The basic principle of this system is to provide the services to the user who have cars and mainly of the local garage owner

6.Other Requirments

-The additional information like the location of the each and every garages and the other requirements are want by customer should be added in this part later