Advanced Software Engineering

Project Increment I

KC easy cars

Team 11

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1.Introduction

KC easy cars

As we know that people travel from one place to another place in search of greater economic opportunity all over the world. They face some problems when they move to another city, to adjusting to new environment, culture, transportation. Transportation is one among the major problems we face when we go to a new city. So in this vastly developing better world to make our lives easy, we thought of creating a web application where anybody who is new to specific city can buy a used car or rent a car easily without worrying for transport. So, we came up with this idea to make our lives easy and save time for everyone.

2.Project Goal and Objectives (Revised)

Overall Goal:

The main goal of this web application is to provide an quick and end-to-end communication between customers and the car dealers, the necessary guidelines for their car to get DMV(Department of Motor Vehicles) registration and also reporting and handling accident claims, mechanical repairs etc.

Specific Objectives:

The key objective of the application is to provide quick and easy access of cars to the people migrating and travelling places. The main motto is to create an interactive web based application which provides details of rental cars and used cars dealers available in that area and also provide necessary steps required for their car registration process.If the car is met with any accident then our web application also provide steps for the reporting and handling claims, minor and major mechanical repairs

Specific Features:

- Filter your search based on your interest and find your best car.
- Get an advice about the car from the chat option in our website.
- Look for a car nearby you with a single click.
- Provide best deals for your car.
- Provide guidelines for DMV registration.
- Guidelines for reporting and handling claims.
- Mechanical repairs.

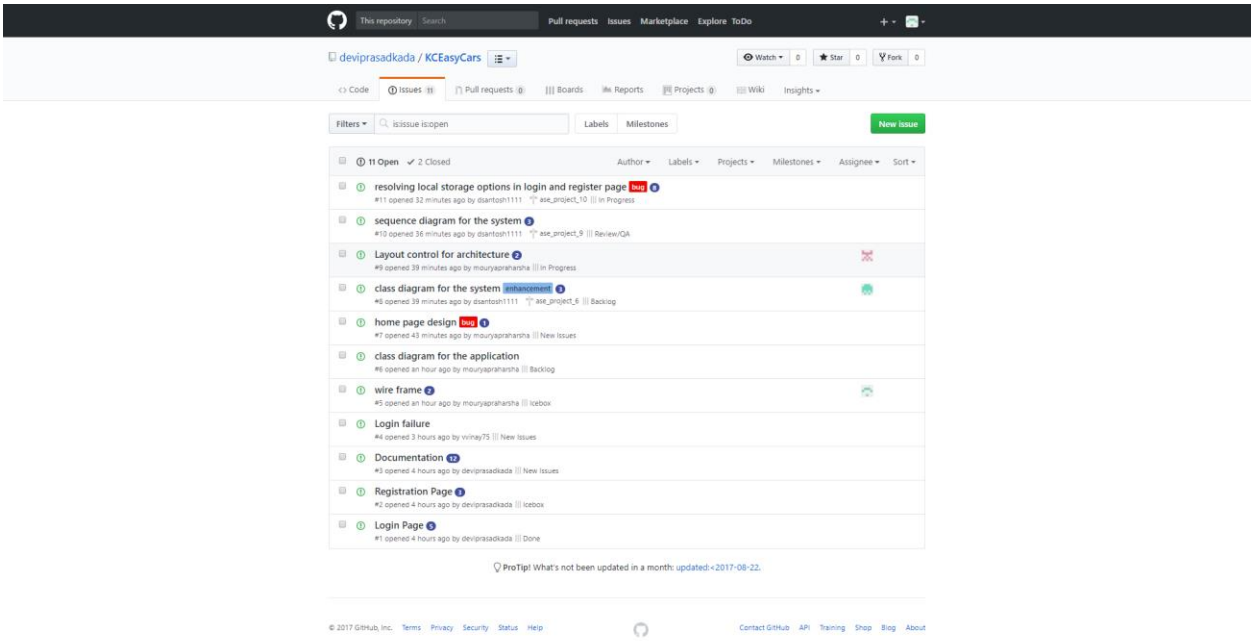
Significance:

We already have many websites for used cars, for renting of cars and guidelines for DMV registration seperately , but our web application is one stop shop for both of them. The customer can also chat with us and come up with the best deal for your cars. The customer can also easily find their new rides with respective to their region specific, they can also filter their search based on their interests, our application also provides guidelines for DMV registration etc.

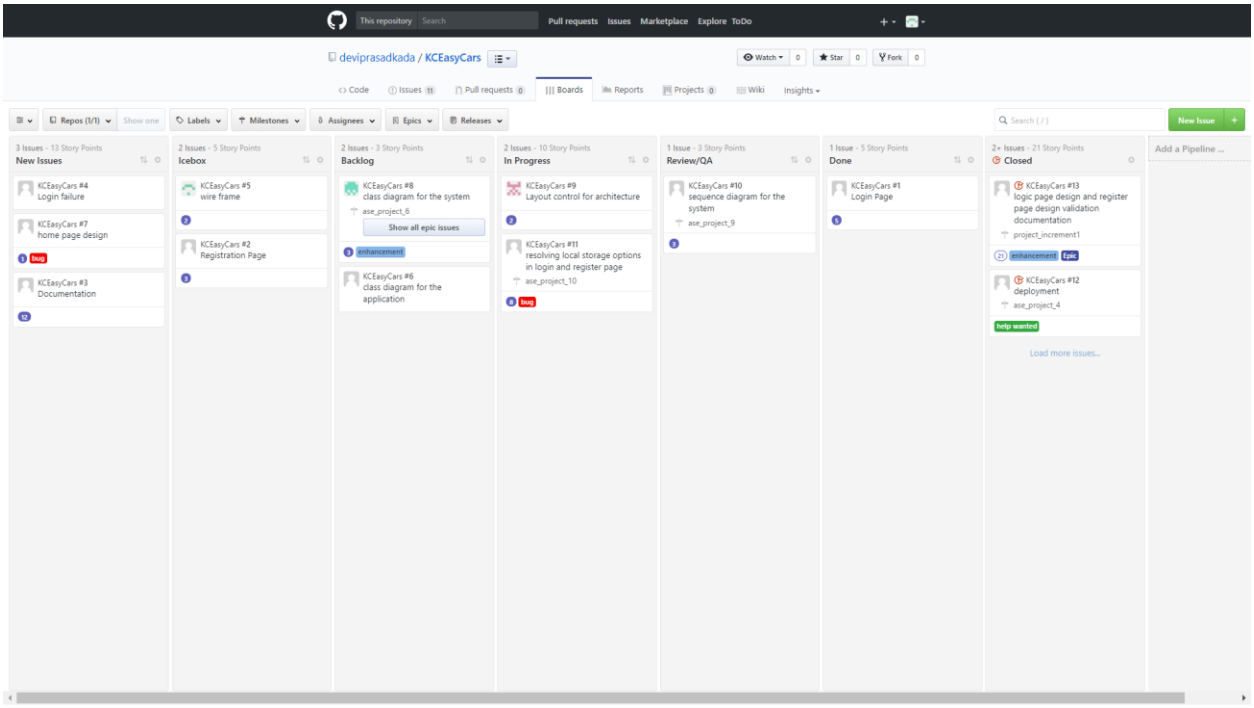
3. Project Plan

Zen-Hub Screenshot:

For the first increment of our web application the issues are Login, Register pages, Integrating Facebook and Google login API and writing unit test cases.

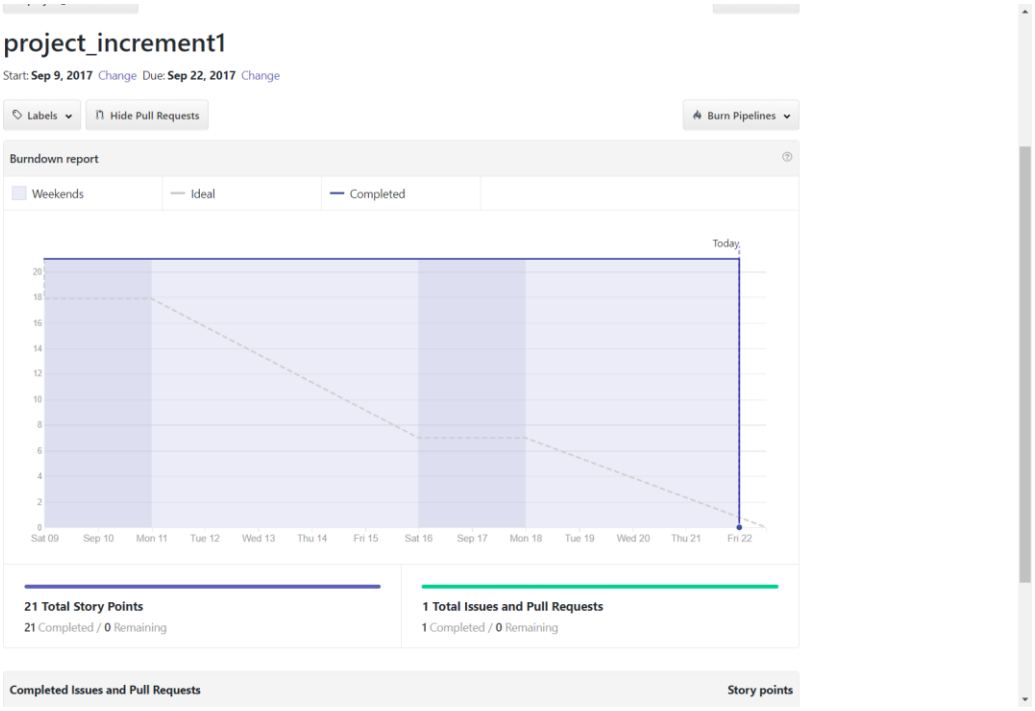


Project Timeline, Members and Task Responsibility



Burn-Down Chart:

Burn-Down chart is created for the above issues via Milestones in github



4. First Increment Report

Existing Services/ REST API

API's Used

Google API:

We have integrated Google API in our login page using O Auth 2.0 security. Users can freely login into our web application using their existed Google account.

Facebook API:

We have integrated Facebook API in our login page using O Auth 2.0 security. Users can easily login into our web application using their existed Facebook account. They can also register in our web application if they don't want to use their google and facebook login

HTML, CSS, BOOTSTRAP:

We have used HTML, CSS, Bootstrap in our login, registration pages for designing our web pages.

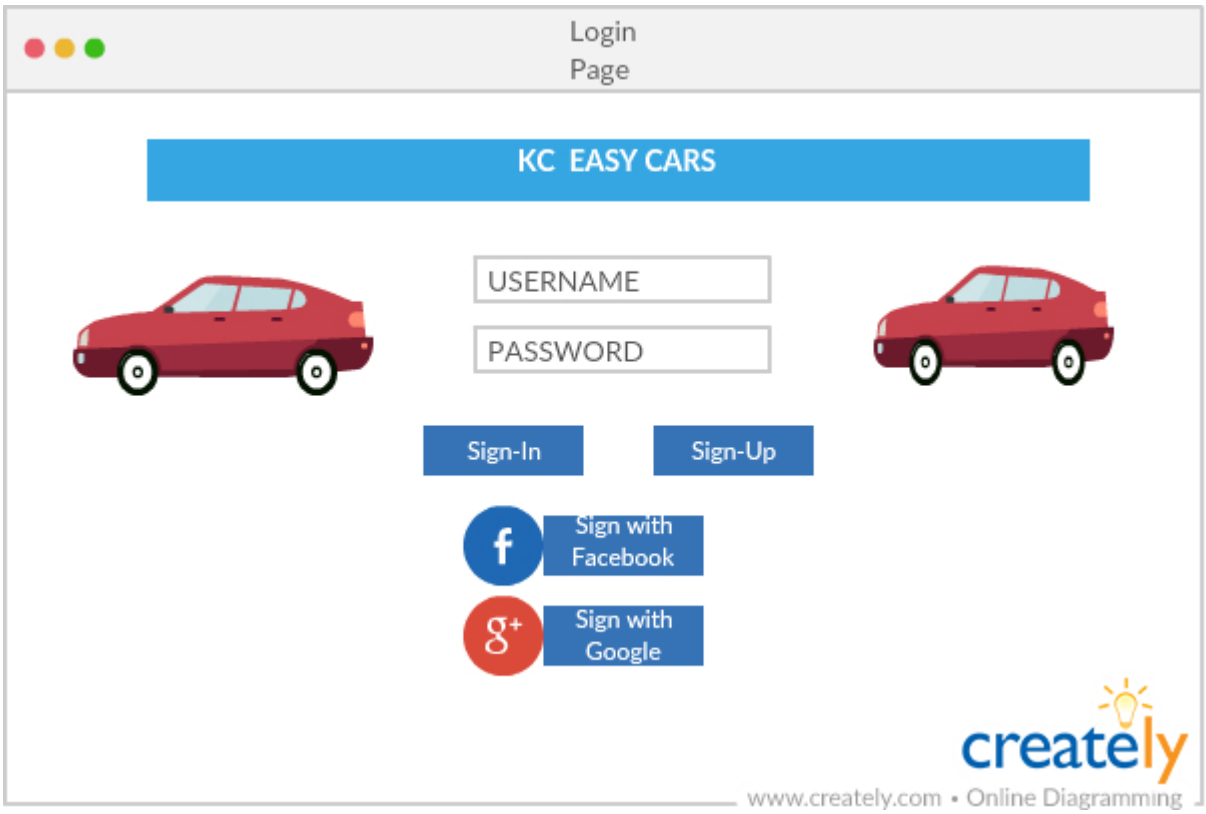
API's Forthcoming:

- Google Maps API
- Car Rental API
- DMV API
- Insurance API

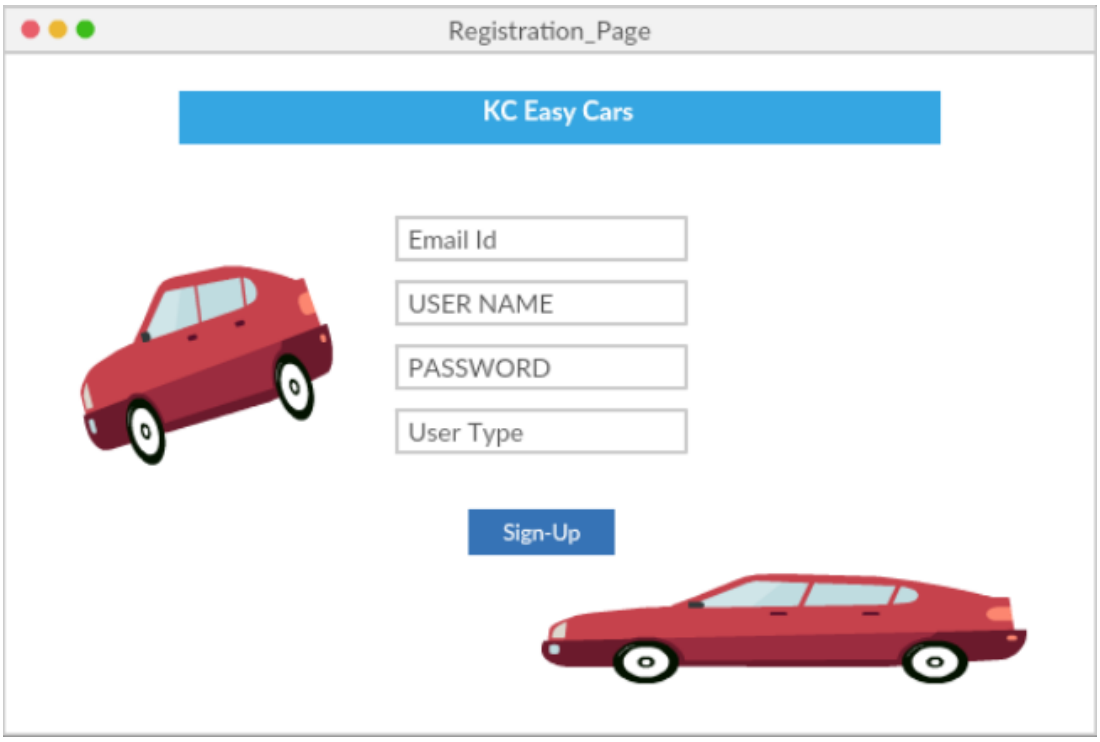
Detail Design of Features (using tools)

Wireframes:

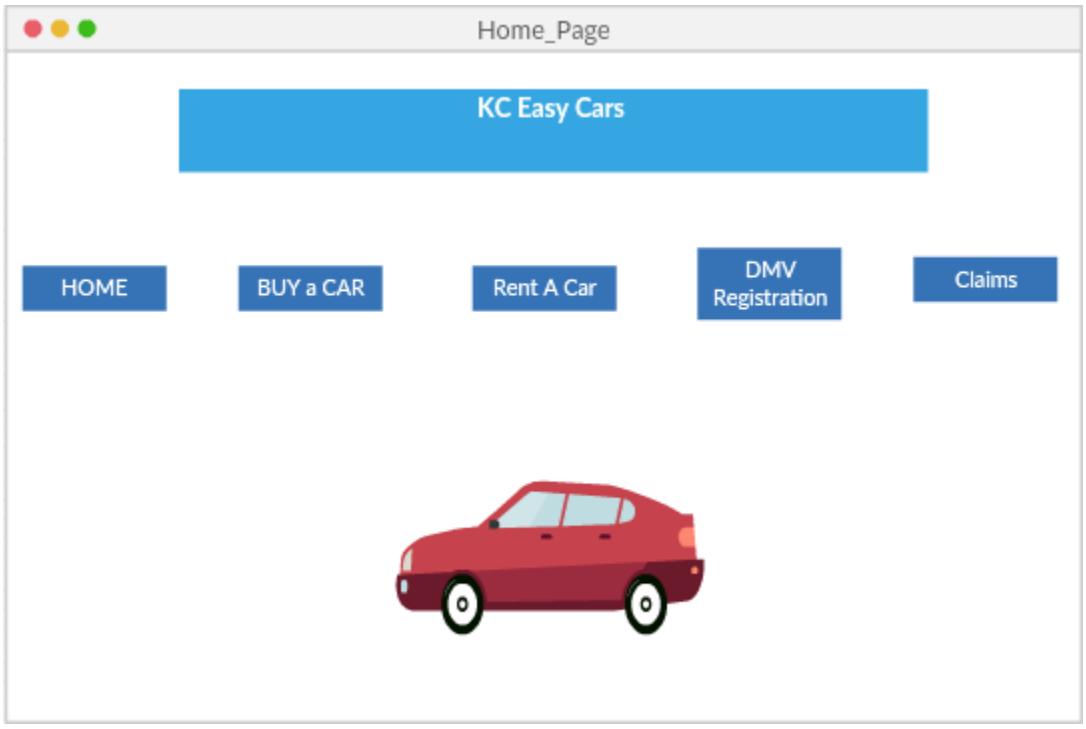
Login page wireframe:



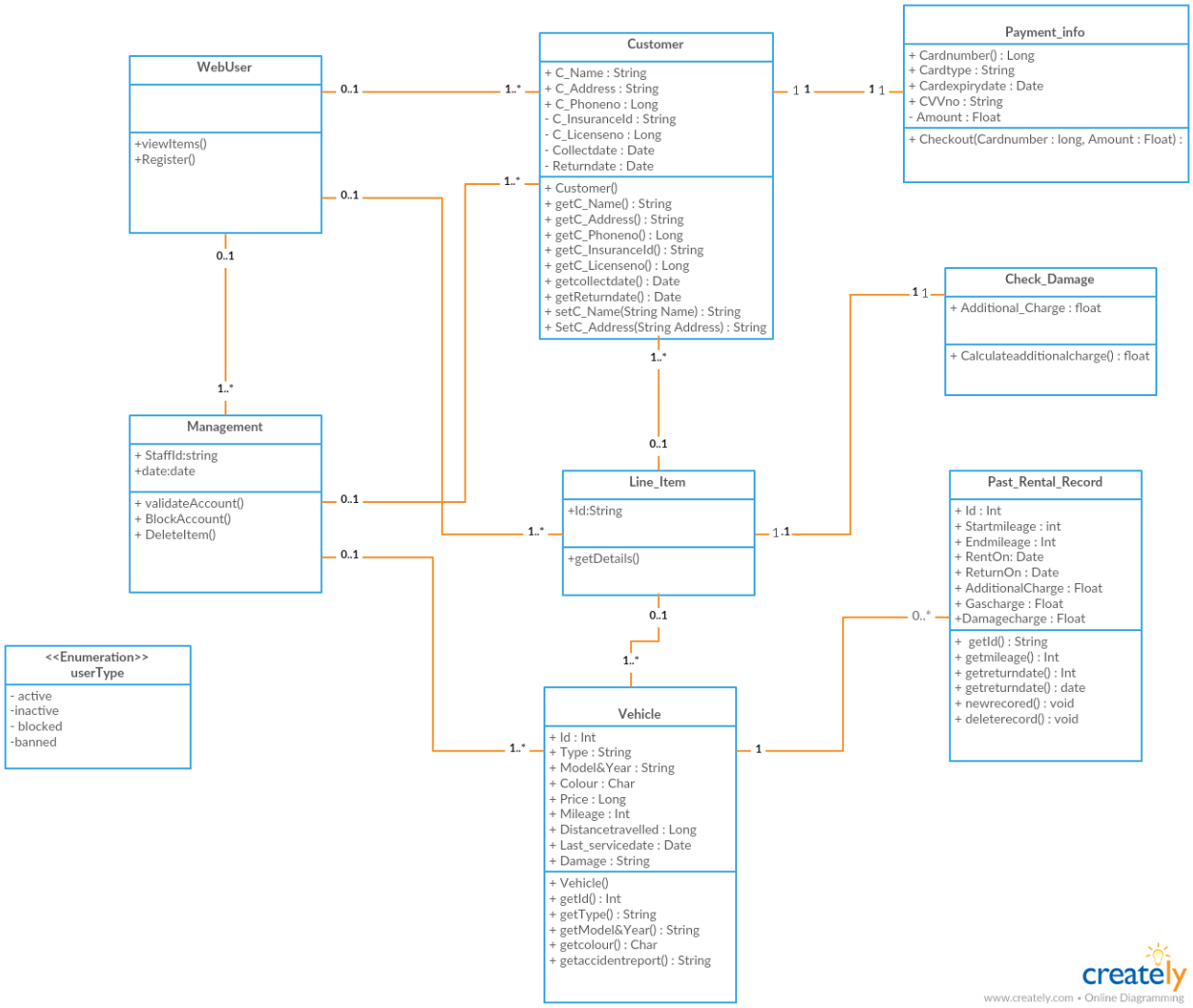
Registration page wireframe:



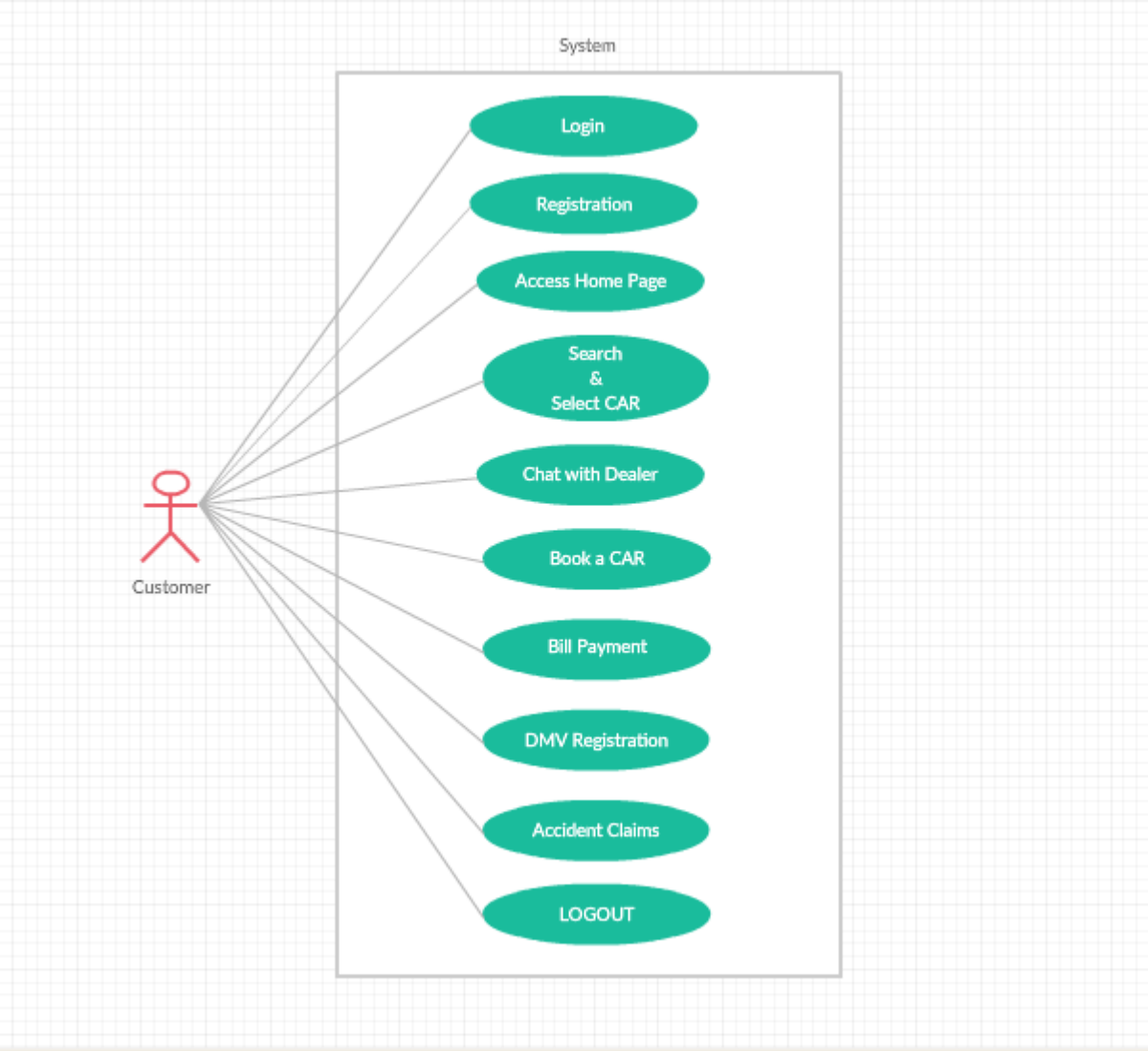
Home page wireframe:



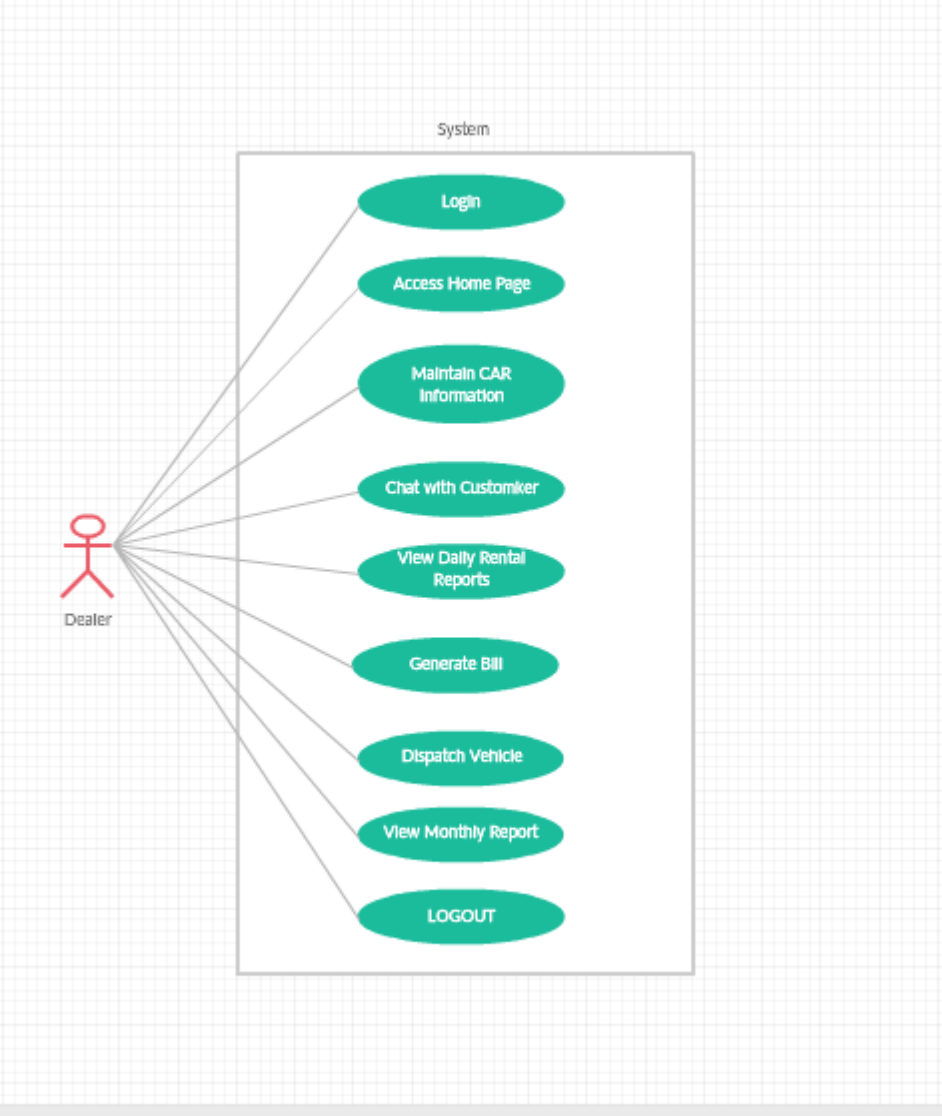
Class Diagram:



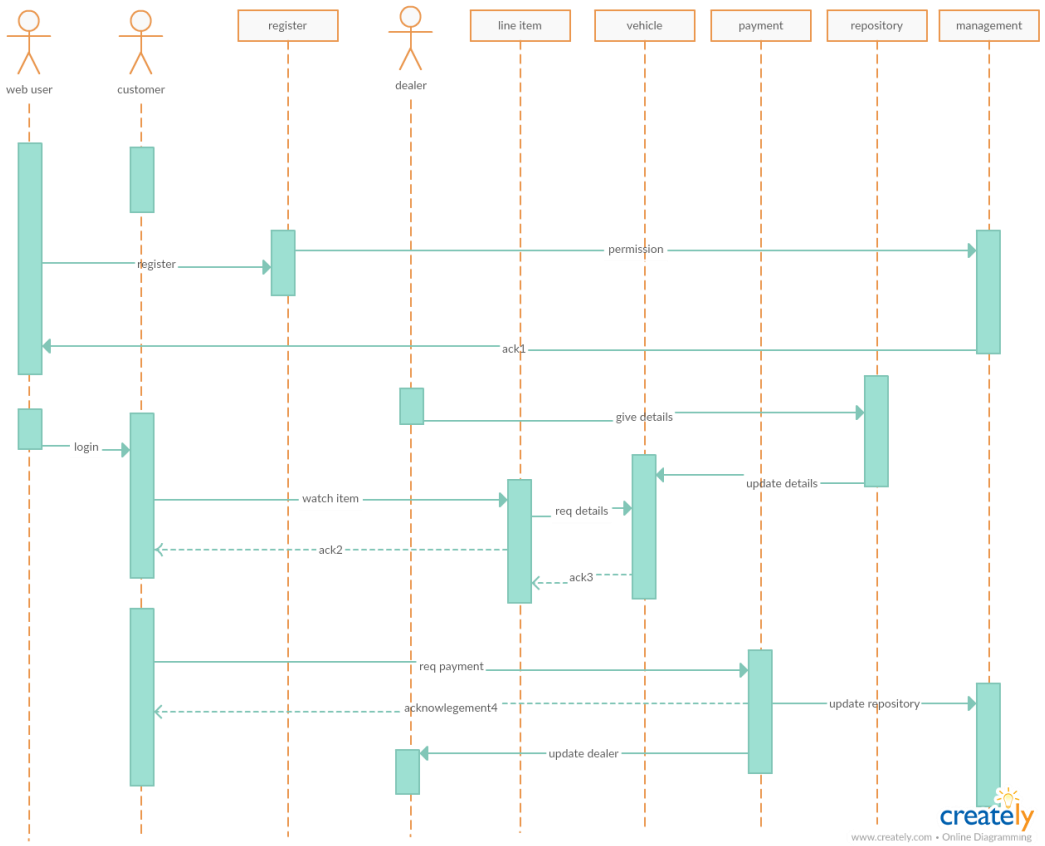
Use case Diagram-I:



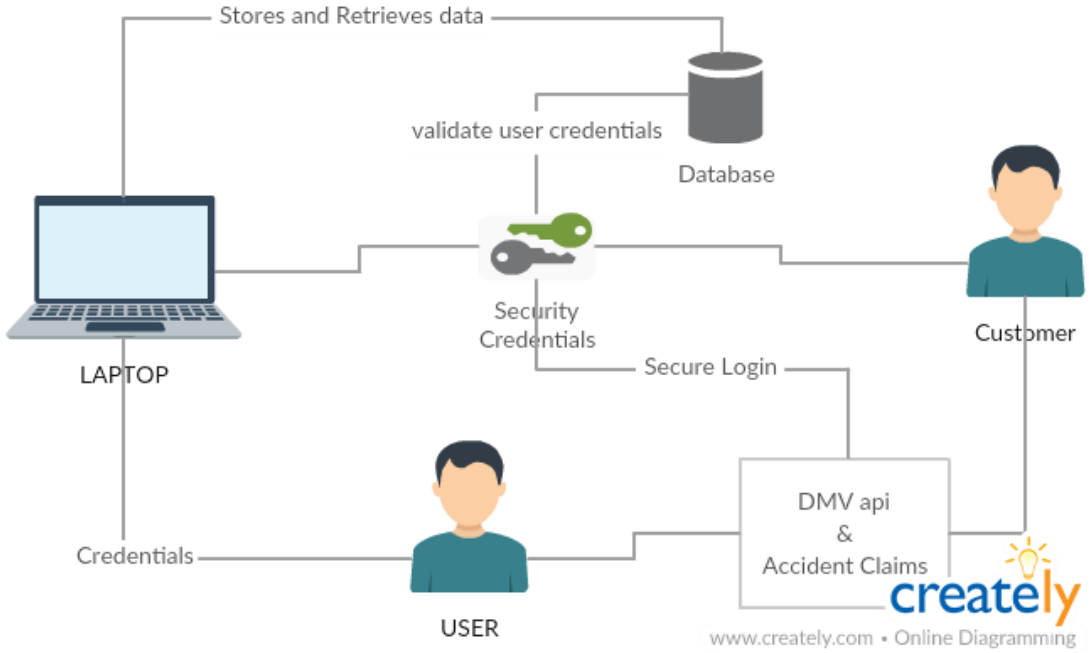
Use case Diagram-II



Sequence Diagram:



Architecture diagram:



User Stories:

User can do many things in our web-application besides login and registration. Below are some things a user can do.

A	**Can**	**So**
User	Filter his/her search for a favorite car.	He/she gets a car based on their preference.
User	Chat with the dealer directly.	Dealer can reserve the car for that particular user.
User	Search for nearby car dealers.	That user can easily find a car near to his location.
User	Search for DMV registration.	User can get the guidelines of what to do after buying a car.
User	Information regarding reporting and handling accident claims.	User need not to worry about how to make reporting and claims.

Unit testing:

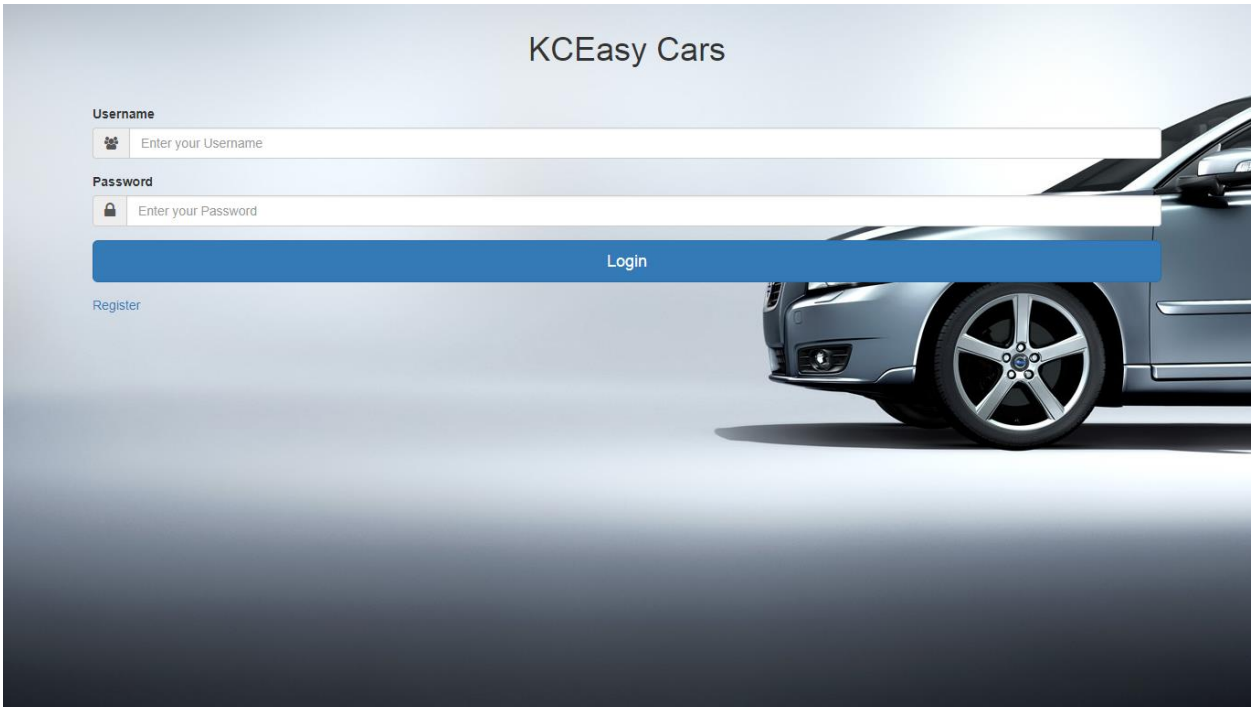
Test cases for login and signup pages:

Case	**Test case Description**	**Expected Result**	**Actual Result**	**Pass/ Fail**
login	Invalid Userid and password	Warning message should pop-up stating invalid credentials	Warning message should pop-up stating invalid credentials	Pass
Login	Incomplete details entered	Warning message pop-up stating empty credentials.	Warning message pop-up stating empty credentials.	Pass
Login	Valid Userid and password	Redirect to home page	Redirect to home page	Pass
SignUp	Must satisfy emailID format	Warning message pop-up stating invalid emailId format	Warning message pop-up stating empty credentials.	Pass
SignUp	Password and Confirm Password should be same	Warning message pop-up stating passwords doesn't match	Warning message pop-up stating empty credentials.	Pass

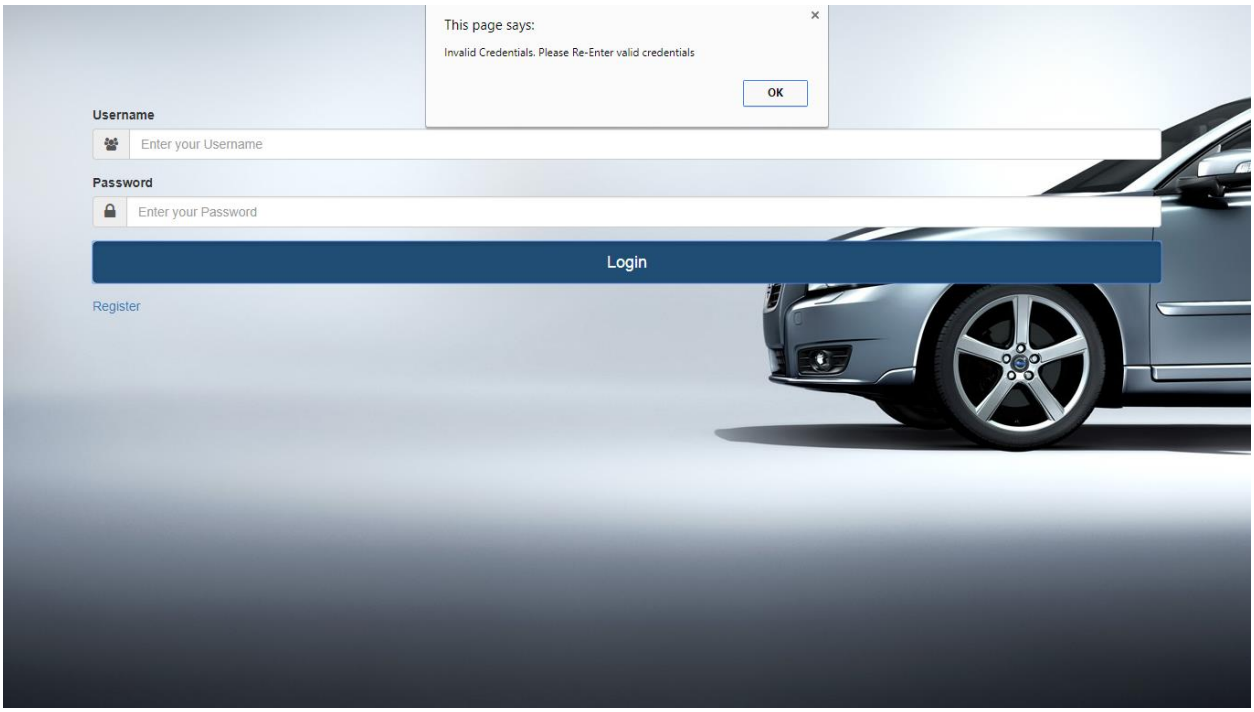
5. Implementation and Deployment

Implement and Deployment of our web application is done and the screen shots are mentioned below.

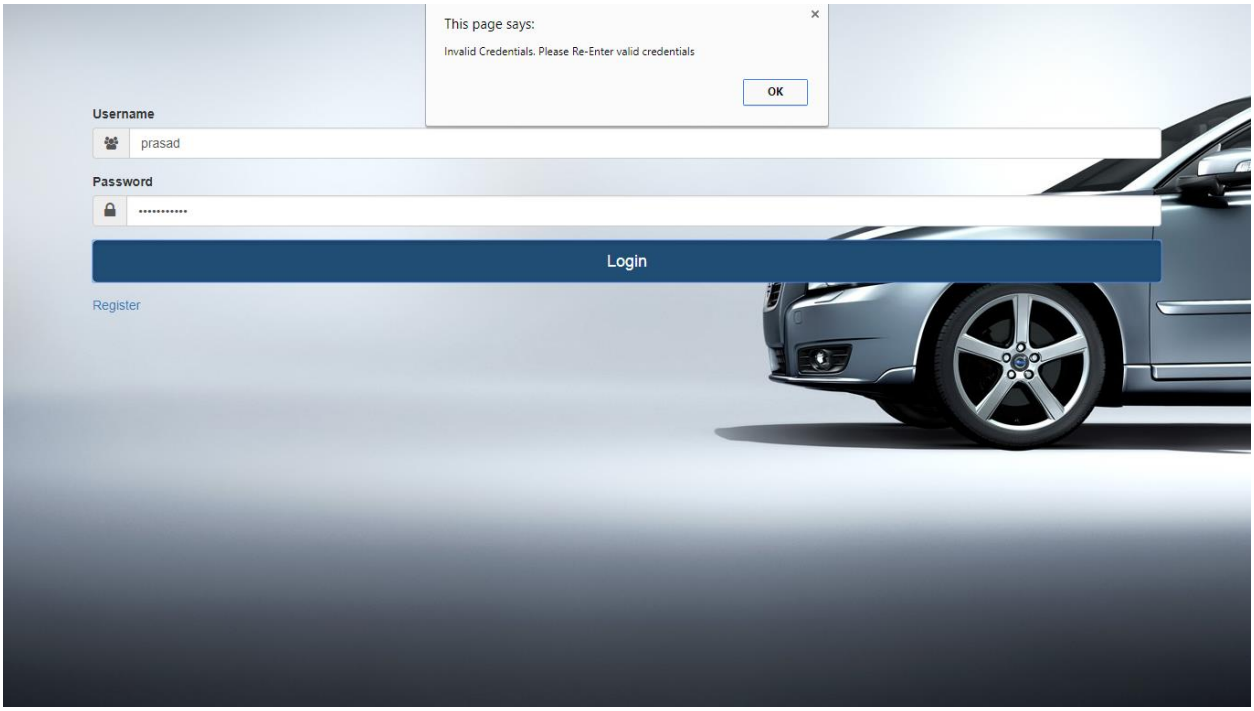
The login page of our web application screenshot is attached below.



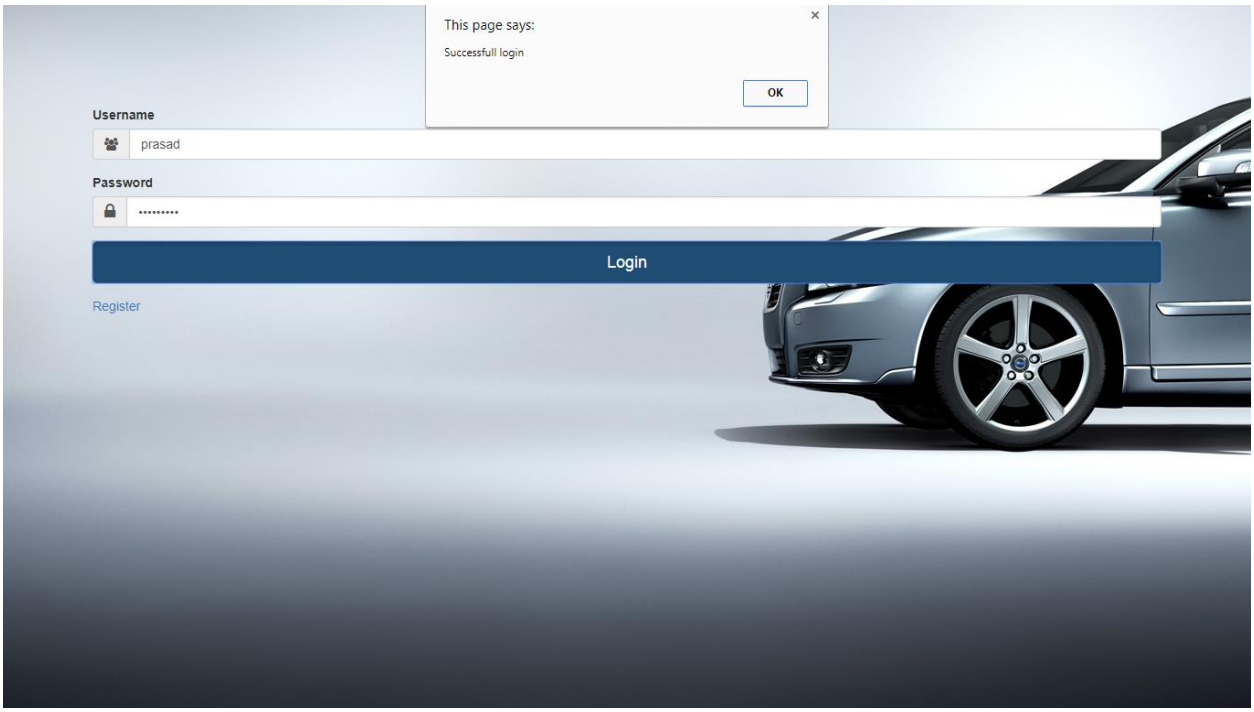
Login page Empty details:



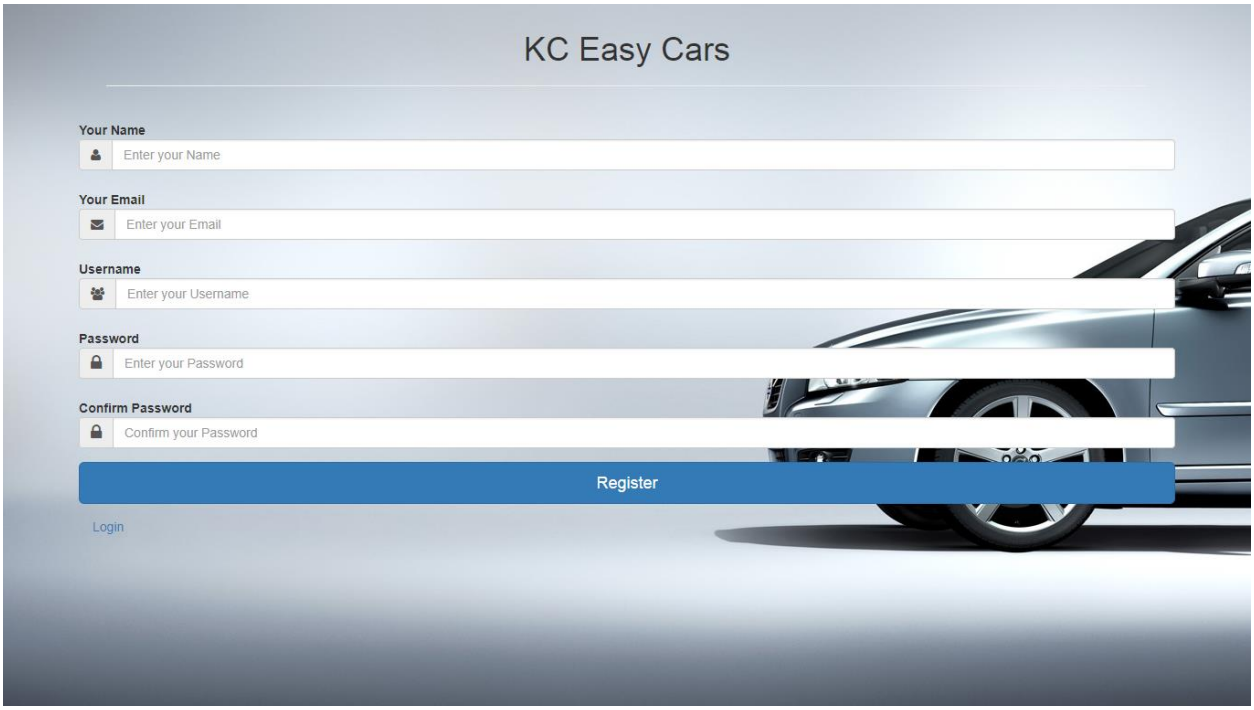
Login page Invalid Details:



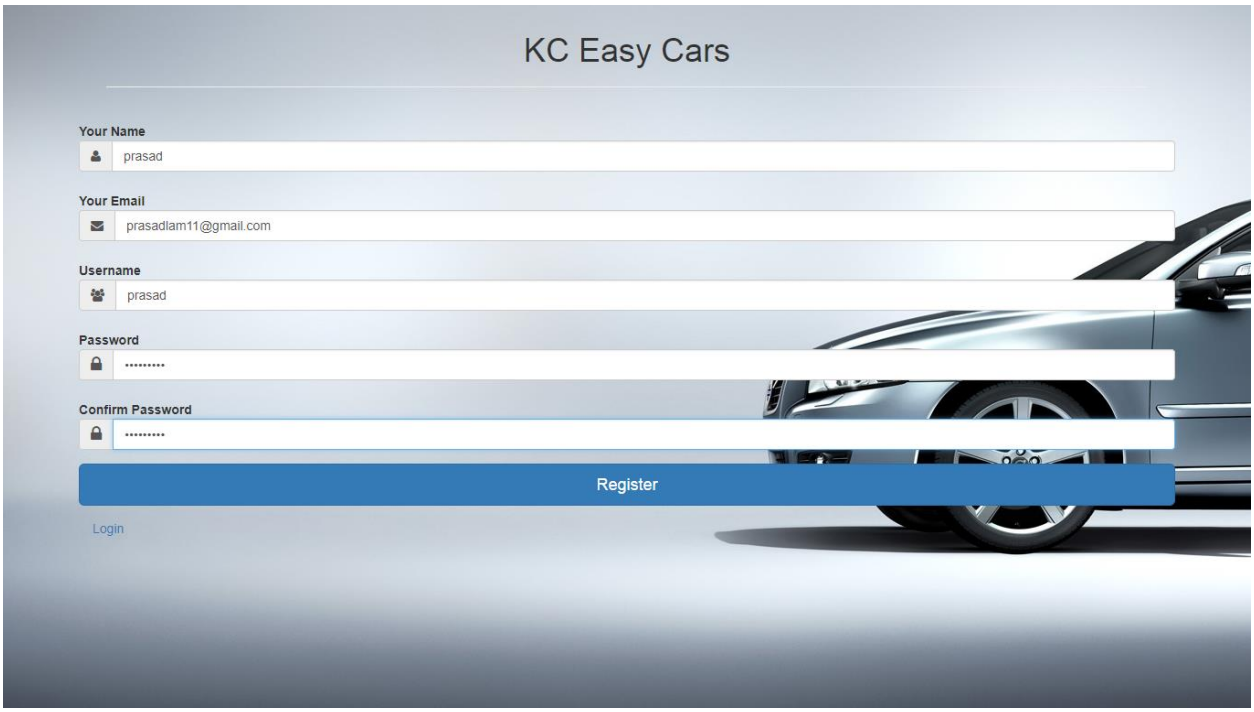
Login page Successful Login:



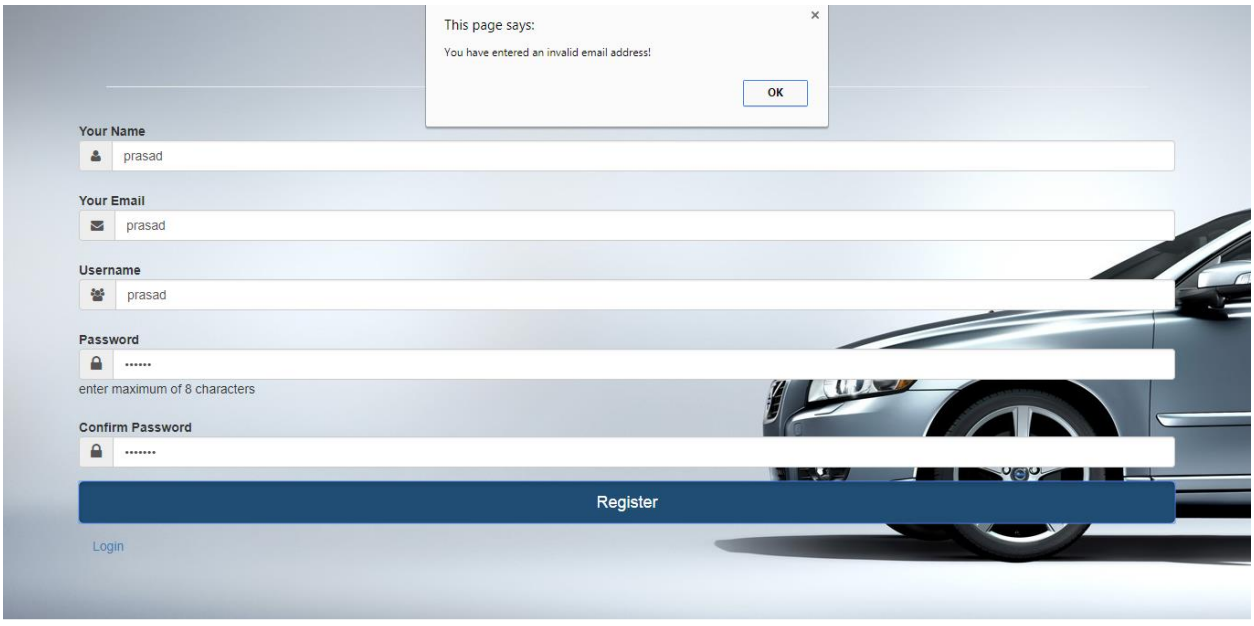
Registration Page:



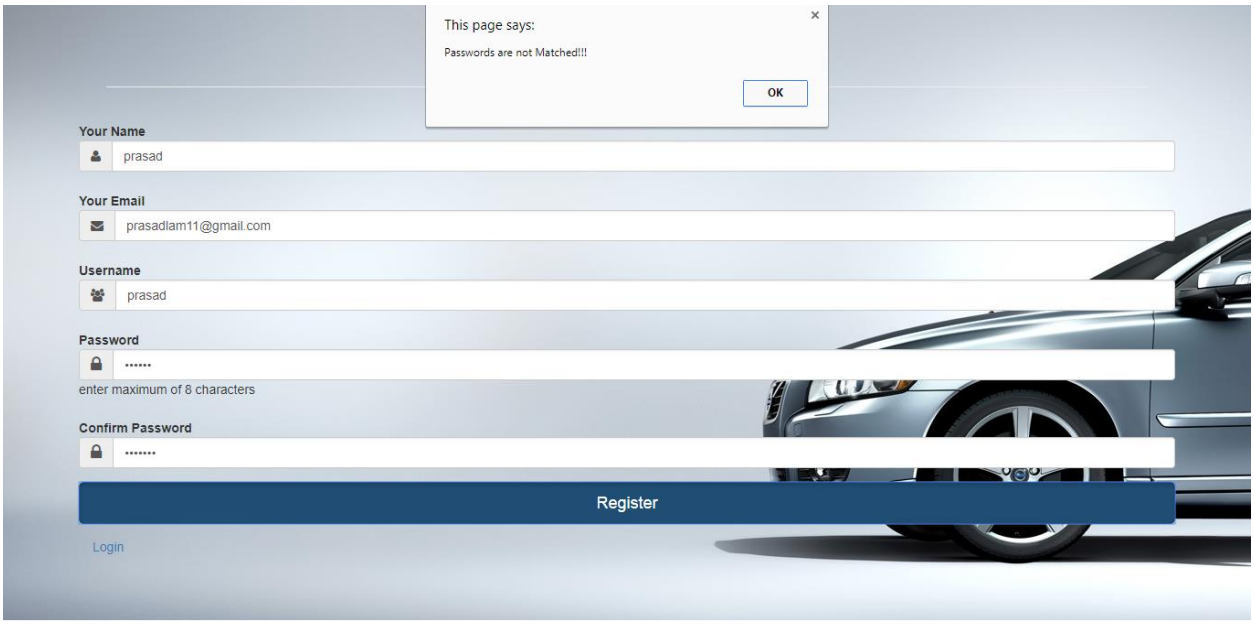
Registration Page signup:



Registration page Invalid Email



Registration Page passwords doesnot match:



Home page:

6.Project Management

Implementation Status Report:

Technologies used:

The technologies used so far in developing or web application are mentioned below. By collaborating with various technologies together we have come up with this web application.

- HTML5
- CSS3
- BootStrap
- JavaScript
- AngularJS

Work Completed:

The completed tasks in this increment are:

Description:

- Implement and deployment of Login and Register pages.
- Login and Register pages using O Auth 2.0 security.
- Sign-in using Google and Facebook APIs.
- Architecture of our application is defined.

Contributors:

- Devi vara Prasad Kada—25%
- Santosh Gandhi Diddi—25%
- Mourya Praharsha Bobbili—25%
- Vinay Chandra Vasamsetti—25%

Responsibility and Time Taken:

- Wireframes----------Mourya(1 ½ hrs)
- UML Diagrams----------Santosh(2hr)
- Login Page----------Santosh(2hr)
- Registration Page----------Mourya(1 ½ hrs)
- Design Elements----------Vinay (2hrs)
- O Auth Security----------Vinay(1 ½ hr)
- Local Storage Implementation--- Prasad (1hr)
- Home Page----------Vinay(1/2hr)
- User Stories----------Mourya(1/2hr)
- Unit Test cases----------Prasad(1/2hr)
- Project Increment Report----------Prasad (2hrs)

Work to be completed:

Works to be completed for upcoming increments are

- Writing the codes and designing the remaining pages.
- Navigation of one page to another pages through hyperlinks.
- Integration of other DMV API, Insurance APIs etc.
- Changes to the UI
- Guideline services to registration process.
- Guidelines Services for reporting and handling accident claims.

7.Bibliography

1. https://creately.com/
2. https://www.w3schools.com/
3. https://developers.google.com/
4. https://developers.facebook.com/