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03-134162-093 M ZAHID IQBAL

03-134162-045 M ZAID TAHIR

AUTOMECHANIC

In partial fulfilment of the requirements for the degree of

Bachelor of Science in Computer Science

Supervisor: Muhammad Hanif

Department of Computer Sciences

Bahria University, Lahore Campus

July 2020

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C e r t i f i c a t e

We accept the work contained in the report titled

"AUTOMECHANIC"

Written by

M ZAHID IQBAL

M ZAID TAHIR

as a confirmation to the required standard for the partial fulfilment of the degree of Bachelor of Science in Computer Science.

Approved by:

Supervisor: Muhammad Hanif

_____ (Signature)

July 20, 2020

DECLARATION

We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

Enrolment	Name	Signature
03-134162-093	M ZAHID IQBAL	
03-134162-045	M ZAID TAHIR	

Date : July 20, 2020

Specially dedicated to
my beloved mother and father
(M ZAHID IQBAL)
my beloved mother and father
(M ZAHID TAHIR)

ACKNOWLEDGEMENTS

We would like to thank everyone who had contributed to the successful completion of this project. We would like to express our gratitude to my research supervisor, Mr Muhammad Hanif for his invaluable advice, guidance and his enormous patience throughout the development of the research.

In addition, we would also like to express my gratitude to our loving parent and friends who had helped and given me encouragement.

M ZAHID IQBAL
M ZAID TAHIR

Automechanic

ABSTRACT

The objective of this project is to develop a web app through which people can book mechanic online for their vehicle at their desired location whenever required moreover they can also avail the service of car wash for their vehicle at their desired location and sometimes vehicle may ran out of fuel, this platform will also make it possible to deliver petrol to the customer at their desired location whenever required. This report explores different techniques which are used to for making this web app.

This project provides a Platform to the people to find reliable and expert Car Mechanics in Pakistan at the convenience of their Door Step also it provides petrol to the people at their desired location whenever needed. Now days almost every person is using a vehicle and sometimes they face the issues of repairing and maintenance. Every person don't have enough time to go to the workshop for small repairing and maintenance of vehicles so this platform will help them to repair and maintain their vehicles at their doorstep from our reliable and expert mechanics. Sometimes our vehicle ran out of fuel and there is no petrol pump near us for that kind of situation we are creating this application which will be very effective for all vehicle users. Moreover it also provides a facility of washing and cleaning the vehicles to the vehicle users whenever they need at their doorstep, this platform also makes life easier for the skilful mechanics who didn't find any job in the market, they can work for our services and earn handsome package. In this website basically we have three different modules. The first module includes the client module in which client can register through our website and tell us about the services that was required; second module contains workers who can apply online to work for our services; and third module includes admin module in which admin can change everything in the website.

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CHAPTER 1

INTRODUCTION

1.1 Background

Over the past several years, Ecommerce has changed how people buy and sell online. The Internet provides a fast and easy way for people to purchase things or services at their doorstep. Computers have become an essential part of today's society. With increase in the use of computers for potentially any task that was once handled manually, it is important to bring about advancements in technology to cater the needs of people in a way that appeals to consumers and eases the burden on those managing or providing a product or service.

There is a need of mechanic for every vehicle user and if they are on a new place or city they don't have an idea about workshop's if their car ran out of gas they don't know from where they get the fuel and pumps. Due to these reasons they may waste a lot of time and energy in searching petrol pumps and workstations and they may lose an important meeting, interviews, Business deals or any other loss.

Moreover, if someone wants his car to be washed, he may go to the service station wait for his turn and then his car is washed it take a lot of time. Now a day's no one have much time to waste on these things everybody wants to save his time and want a comfort zone in every field. They just want their work to be done on a single phone call.

1.2 Problem Statements

Now a day's almost every person is using cars, motorbikes, auto rickshaws, vans, buses etc. There is a need of mechanic for every vehicle user. As now a day's travelling is too much for person and when they travel to the new places and new cities they don't know the workshops and petrol pumps of that city. Prices are also different in different regions so our web application helps them in finding a mechanic with suitable rates. Moreover, while travelling sometime the vehicle breaks down or out of gas for that reason we have created our web application for dealing in such type of situations.

1.3 Aims and Objectives

Our project is based on a web application which will help the vehicle users to

- Order mechanic anywhere and anytime.
- Provide mechanics at your doorstep.
- Enable ease to the vehicle users.
- Can order petrol/diesel if car run out of fuel.
- Provides the comfort to our customers.
- Show details of mechanics with their expertise and experience.
- Show the rating of every mechanic on the basis of his services to other customers.

1.4 Scope of Project

Our proposed system is an online Auto Mechanic system that enables ease for the vehicle users. This project provides a Platform to the people to find reliable and expert Car Mechanics, motorcycle Mechanics in Pakistan at the convenience of their Door Step also it provides petrol to the people at their desired location whenever

needed. Now days almost every person is using a vehicle and sometimes they face the issues of repairing and maintenance. Every person doesn't have the time to go to the workshop for small repairing and maintenance of vehicles so this platform will help them to repair and maintain their vehicles at their doorstep from our reliable mechanics. Sometime our vehicle got out of fuel and there is no petrol pump near us for that kind of situation we are creating this application which will be very effective for all vehicle users. Moreover it also provides a facility of washing and cleaning the vehicles to the vehicle users whenever they need at their doorstep, this platform also makes it easier for the skilful mechanics who didn't find any job in the market they can work for our services and earn handsome package.

CHAPTER 2

LITERATURE REVIEW (and/or SRS)

2.1 User Classes and Characteristics

All users are segmented into three types of classes. One class is Admin user; other classes are Mechanic user and Customer user. All users need only Basic English Language reading skills to use this application. One may consult the use case diagram for more understanding.

2.1.1 Admin

Admin has the following characteristics:

- Sign In
- Add new mechanic
- View All mechanic details
- Update Mechanic List
- Delete Mechanic List
- View All Booking List
- Accept/ Reject Booking
- View/ Update Testimonial List

2.1.2 Mechanic

Mechanic has the following characteristics:

- Sign Up
- Sign In
- View Booking List
- View Review List

2.1.3 Customer

Customer has the following characteristics:

- Sign Up
- Sign In
- View Mechanic List
- View Booking Details List
- Select Mechanic
- Book service
- Give Reviews

2.2 Operating Environment

Following are the minimum system requirements at which this application can run smoothly.

- Intel Core 2 Duo or above
- Windows 7, 8 or 10
- Linux
- Mac OS X

2.3 Design and Implementation Constraints

Design and implementation constraints requirements are as follows:

2.3.1 External Interfaces:

- Gmail API
- Chat bot Integration

2.3.2 Regularity policies

Google and Gmail policies may Change.

2.3.3 Internet Limitations

The Internet connection might be a constraint for the website. Since the website fetches data from the database over the Internet, it is crucial that there is an Internet connection for the website to function.

2.3.4 Language Requirements

This web application will be developed in Core PHP programming language using Html, CSS as front end language and PHP as back end language.

2.3.5 Tools

Following tools are used for the development of Automechanic:

- Sublime Text
- SQL Server
- WAMP
- Core PHP
- Adobe Photoshop

2.4 Assumptions and Dependencies

The assumption about Automechanic is that it will always be used on computer or mobile phones that have enough performance. If the computer or phone does not have enough hardware resources available and software for the website then it may cause problems in accessing the website.

CHAPTER 3

DESIGN AND METHODOLOGY

3.1 Methodology

In this project, we will be using the Scrum Methodology of Agile development framework because it helps the project to adapt changes per request. In the Agile model, the requirements are decomposed into many small parts that can be incrementally developed. The Agile model also adopts Iterative development. Each incremental part is developed over iteration.

3.2 Use Cases:

3.2.1 Use-case Diagram

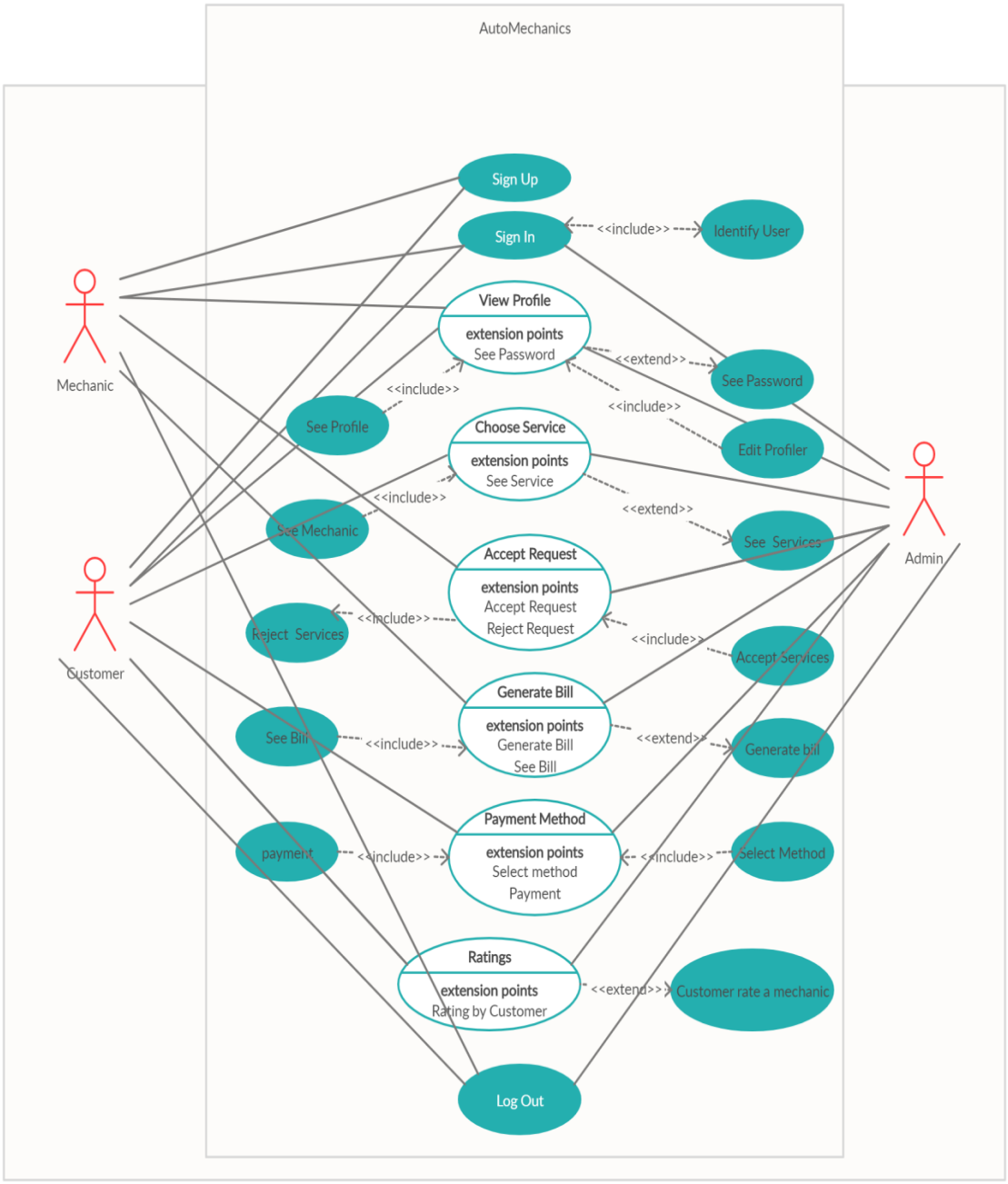

Fig 3.1: Use Case Diagram

3.1 Sign-Up:

Table 3.1: Sign Up Use Case

Name and ID	Sign Up (U1)
Brief description	Customer and mechanic can register themselves to use our website.
Preconditions	There is no as such any precondition because it is the first step.
Basic flow or Happy path	User will simply give email and password and pin is generated which will verify the user through the email provided to sign up on our site.
Trigger	User wants to view our services.
Alternate flows	User can simply search the website but wouldn't register himself.
Post conditions	User can get the access to view our available services.

3.1 Login:

Table 3.2: Login Use Case

Name and ID	Login (U2)
Brief description	Customer and mechanic can login to our website to avail the required services.
Preconditions	User must sign up.
Basic flow or Happy path	User can login to our website by giving the required credentials.
Trigger	User wants to view our services.
Alternate flows	User can simply search the website but wouldn't register himself.
Post conditions	User can get the access to view our available services.

3.1.1 Select Service:

Table 3.3: Select Service Use Case

Name and ID	Select Service (U3)
Brief description	Customer can choose the service which is required from our website.
Preconditions	Customer should have signed in to our website.
Basic flow or Happy path	All the available services are given to our website customer just have to choose the required service by clicking on the service.
Trigger	Customer wants to use our services.
Alternate flows	Customer can simply see the available services but wouldn't select any Service.
Post conditions	Customer can request the mechanic.

3.1.2 Accept Service:

Table 3.4: Accept Use Case

Name and ID	Accept Service (U4)
Brief description	Mechanic can accept or reject the request of the customer for any service.
Preconditions	Customer should have requested/selected any service.
Basic flow or Happy path	A request by customer is shown on the mechanic screen and mechanic would have accept or reject the service.
Trigger	Mechanics have to provide the service.
Alternate flows	Mechanic didn't respond to the request of the customer.
Post conditions	Mechanic will go to the customer and perform the required service.

3.1.3 Generate Bill:

Table 3.5: Generate Bill Use Case

Name and ID	Generate Bill (U5)
Brief description	Mechanic can generate the bill of the service provided to the customer.
Preconditions	Mechanic should have provided the required service to the customer.
Basic flow or Happy path	After the service is provided to the customer mechanic will generate the bill by clicking the service provided a bill is generated.
Trigger	Mechanics have to receive the payment of his service.
Alternate flows	Mechanic isn't able to provide the service.
Post conditions	Customer will select the payment method of his choice.

3.1.4 Payment Method:

Table 3.6: Payment Use Case

Name and ID	Payment Method (U6)
Brief description	Customer chooses the payment method of his choice.
Preconditions	Mechanics have generated the bill.
Basic flow or Happy path	Customer will have to choose the payment method by clicking on the methods provided by our website.
Trigger	Customers have to pay the bill against the services provided by our Website.
Alternate flows	Customer didn't have money or other means of payment.
Post conditions	Customer will give ratings to the mechanics according to his work and behavior.

3.1.5 Ratings:

Table 3.7: Ratings Use Case

Name and ID	Ratings (U7)
Brief description	Customer will give ratings to the mechanics by selecting the stars out of 5.
Preconditions	Mechanic should have provided the service to the customer.
Basic flow or Happy path	After the service is provided to the customer the customer according to his satisfaction will rate the mechanic out of 5 by choosing the stars.
Trigger	Customer wants to give the feedback of our services.
Alternate flows	Customer will not give the feedback.
Post conditions	Logout.

3.1.1 Logout:

Table 3.8: Logout Use Case

Name and ID	Logout (U8)
Brief description	Customer and mechanic can logout themselves from our website after signing in.
Preconditions	A user must Sign In first to logout.
Basic flow or Happy path	Users will logout by clicking the logout button.
Trigger	User wants to logout from our website.
Alternate flows	User didn’t want to logout after sign In.
Post conditions	No post condition as it is the last step.

3.2 Sequence Diagram

3.2.1 Customer Sign-Up

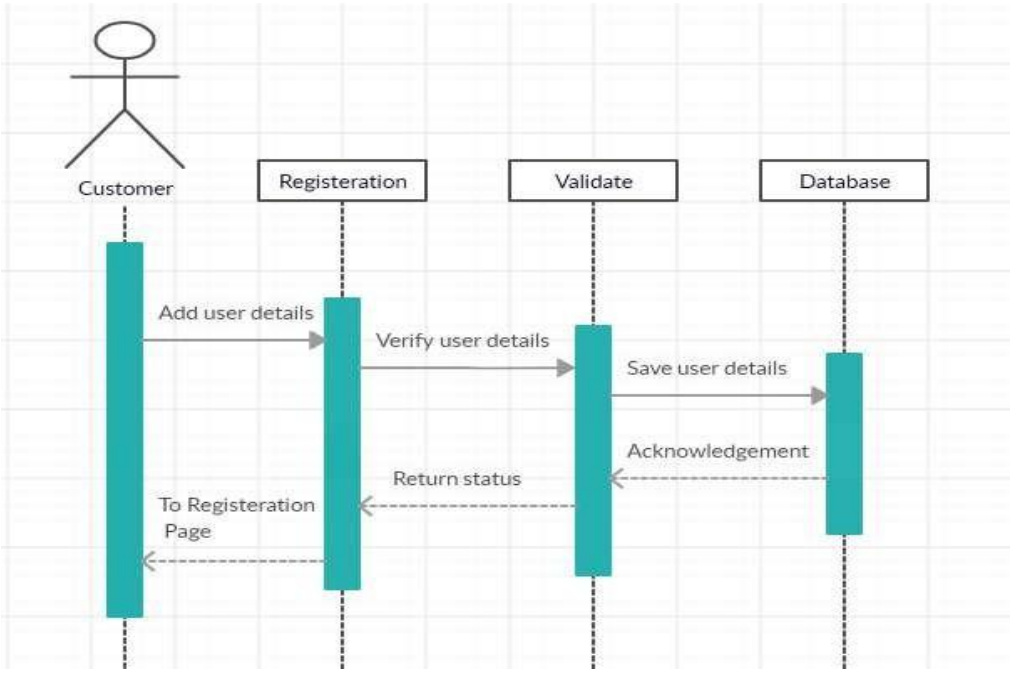

Figure 3.2: Mechanic Sign-Up Sequence Diagram

3.2.2 Mechanic Sign-Up

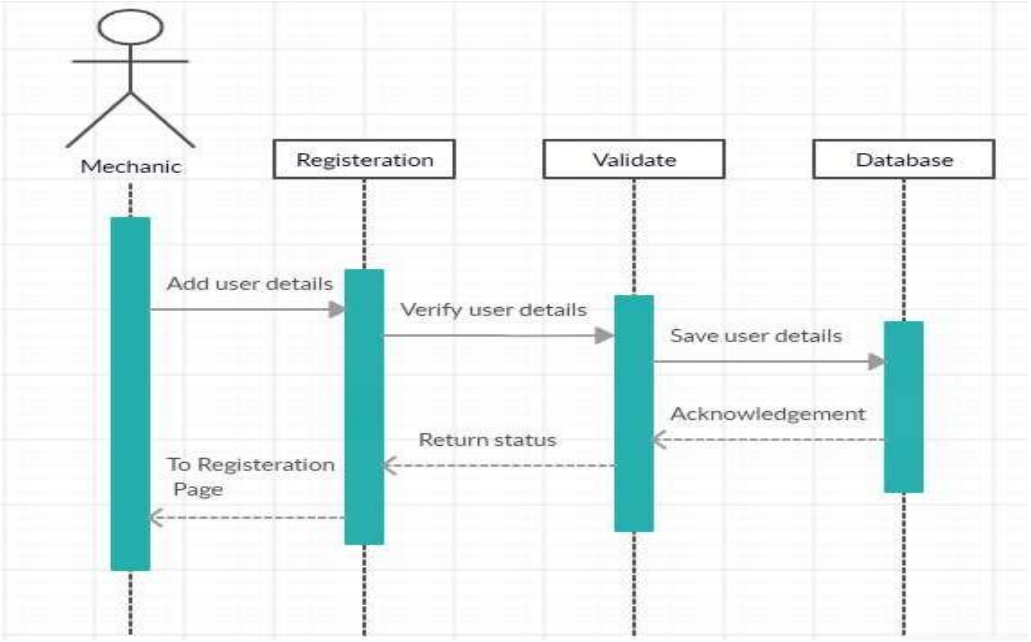

Figure 3.3: Customer Sign-Up Sequence Diagram

3.2.3 Customer Login

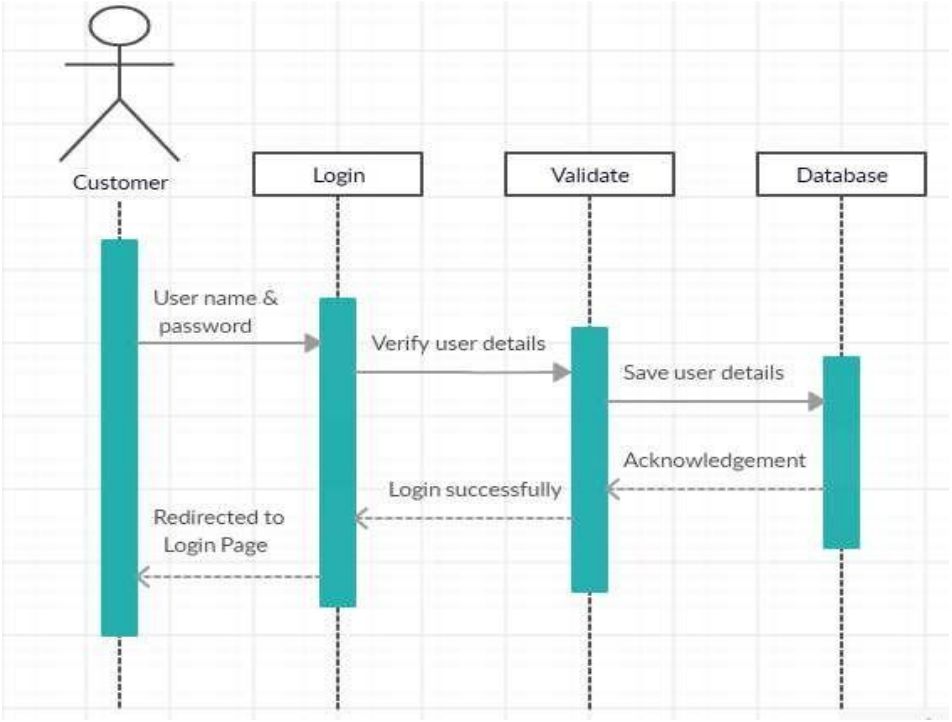

Figure 3.4: Customer Login Sequence Diagram

3.2.4 Mechanic Login

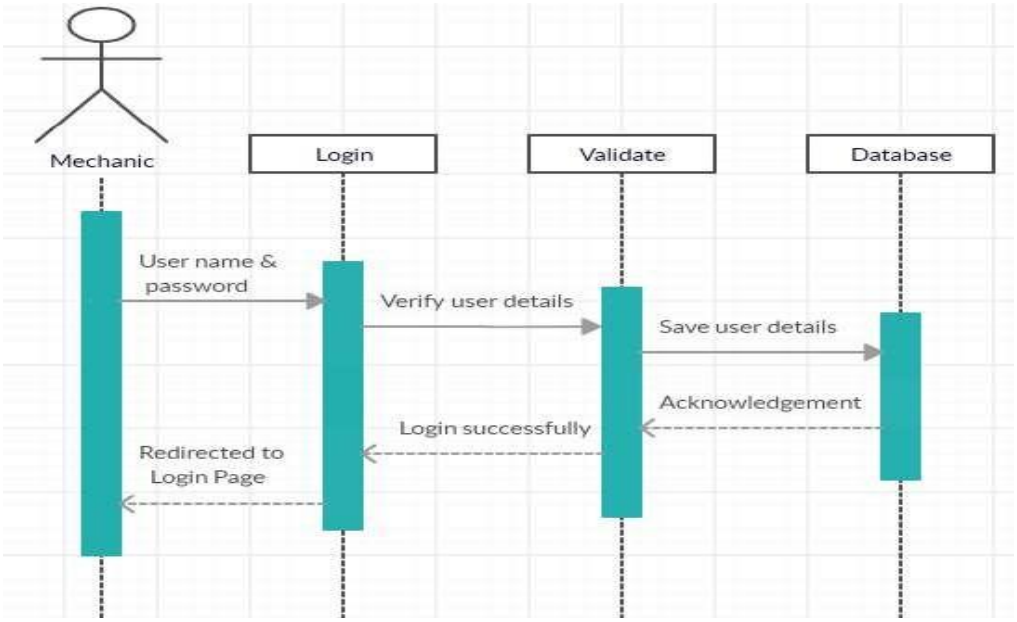

Figure 3.5: Mechanic Login Sequence Diagram

3.2.5 Customer Select Service

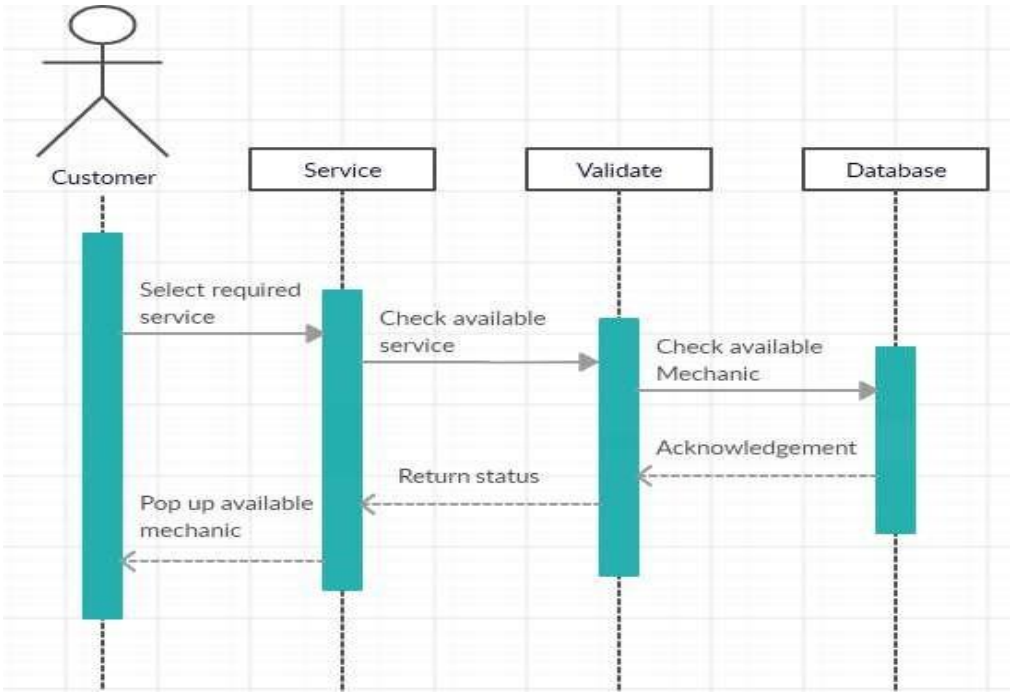

Figure 3.6: Select Service Sequence Diagram

3.2.6 Mechanic Accept Service

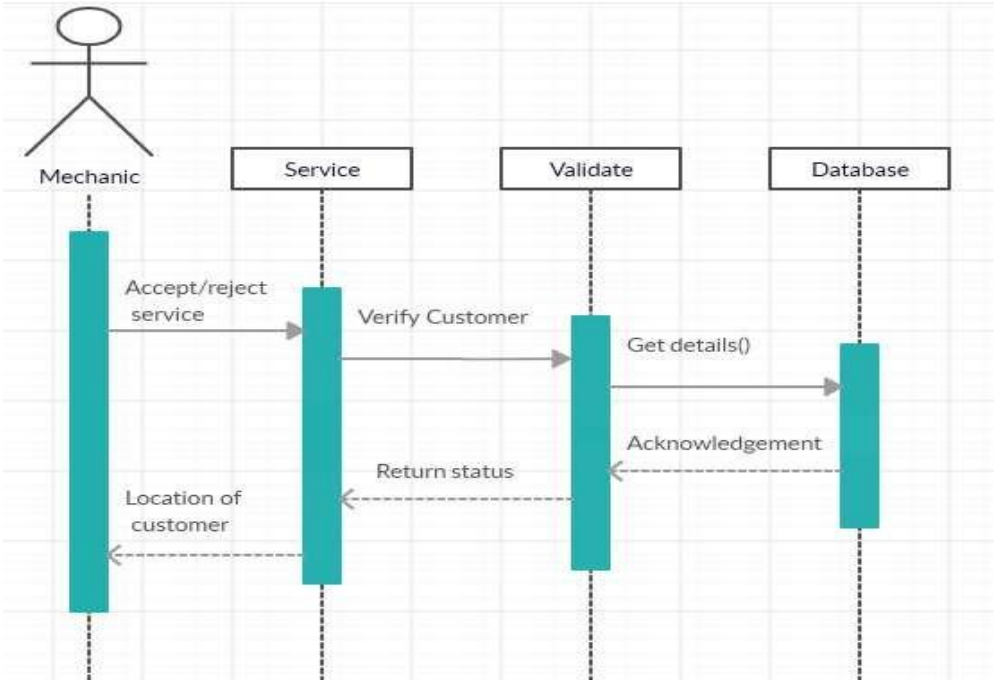

Figure 3.7: Accept Service Sequence Diagram

3.2.7 Mechanic Generate Bill

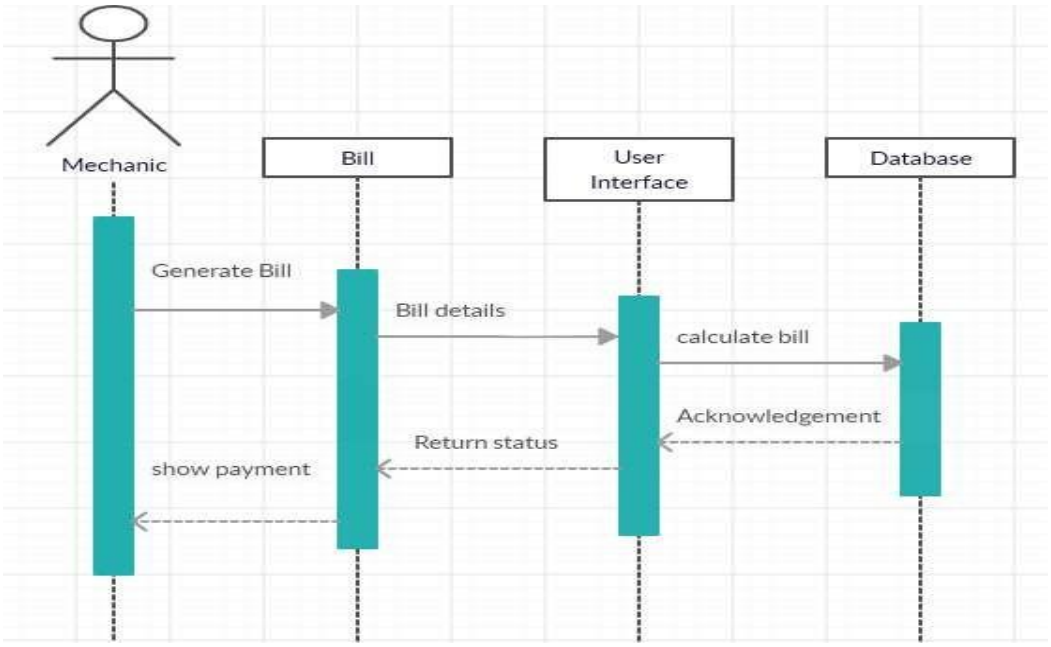

Figure 3.8: Generate Bill Sequence Diagram

3.1 Operation Contract

3.1.1 Sign-Up

Table 3.9: Sign Up Contract

Name	Sign Up
Responsibilities	Users will register themselves to our website
Cross Reference	U1
Exceptions	Wrong Credentials
Preconditions	Customers have the source to register like internet connection and have the access to our website.
Post conditions	User can get the access to view our available services.

3.1.2 Login

Table 3.10: Login Contract

Name	Login
Responsibilities	User will login to our website.
Cross Reference	U2
Exceptions	Wrong Credentials
Preconditions	User must sign up to our website by providing required credentials.
Post conditions	User have access to use any available services

3.1.3 Select Service

Table 3.11: Select Service Contract

Name	Select Service
Responsibilities	The Customer will select the service according to their needs and desire.
Cross Reference	U3
Exceptions	No
Preconditions	Customer should logged in to use the service
Post conditions	Customer can request the service which is required.

3.1.4 Accept/Reject Service

Table 3.12: Accept/Reject Service Contract

Name	Accept/ Reject service
Responsibilities	The Mechanic will accept or reject the request of the customer.
Cross Reference	U4
Exceptions	No
Preconditions	Customer must select any service.
Post conditions	Mechanic will perform the service.

3.1.5 Generate Bill

Table 3.13: Generate Bill Contract

Name	Generate Bill
Responsibilities	The Mechanic will generate the bill after performing the required services.
Cross Reference	U5
Exceptions	No
Preconditions	User must have performed the services which are required by the user
Post conditions	User may select the payment method

3.1.6 Select Payment Method

Table 3.14: Select Payment method Contract

Name	Select Payment Method
Responsibilities	The customer will scan the logo from the restaurant and the system will open the menu options
Cross Reference	U6
Exceptions	No
Preconditions	Bill must be generated.
Post conditions	Customer will rate the service which has been performed.

3.1.7 Ratings

Table 3.15: Ratings Contract

Name	Ratings
Responsibilities	The Customer will do the ratings of the mechanic according to his work
Cross Reference	U7
Exceptions	No
Preconditions	Mechanic should have performed the required services
Post conditions	Customer may logout from the website.

CHAPTER 4

DATA AND EXPERIMENTS (and/or IMPLMENTATION)

4.1 Technologies Used

4.1.1 Admin Panel

4.1.1.1 HTML5

HTML stands for hypertext mark-up language. HTML is used to form the web applications and web pages. This is the front end language used to show content on web pages.

4.1.1.2 CSS3

CSS stands for cascading style sheet. CSS3 is used for styling of front-end content and defines how HTML elements are shown on screen.

4.1.1.3 BOOTSTRAP4

Bootstrap 4 is the newest version of Bootstrap, which is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first websites.

4.1.1.4 PHP

PHP stands for hypertext pre-processor. PHP is used for the back-end of the web-based admin panel. PHP is an open-source scripting language. PHP 42 code is written between the starting and ending tag of PHP.

4.1.1.5 SQL

MySQL is a combination of “My”, the name of co-founders Michael Widenius's daughter, and "SQL". SQL stands for structured query language is an open- source relational database management system (RDBMS) used for sorting, manipulating and retrieving data from the database. That is why it is being used in this project (web-based admin panel) because there are certain forms that are used to store and manipulate information.
The data in a MySQL database are stored in tables. A table is a collection of related data, and it consists of columns and rows.

4.2 Tools Used

4.2.1 Sublime Text

Sublime Text is a proprietary cross-platform source code editor with a Python application programming interface (API). It natively supports many programming languages and mark-up languages, and functions can be added by users with plugins, typically community-built and maintained under free-software licenses.

4.2.2 XAMPP Server

XAMP Server is used for the local host of data. This host is counting the database of the project in which there is a collection of tables and each table holds data.

CHAPTER 5

RESULTS AND DISCUSSIONS (or USER MANUAL)

5.1 Admin Panel

5.1.1 How to Access

Open an internet browser and type in this URL (http://autoomechanics.com/admin) the login page of the admin panel of Automechanic will appear.

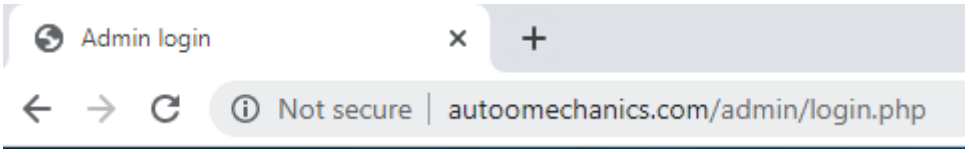

Figure 5.1: How to access admin panel

5.1.2 Login Page

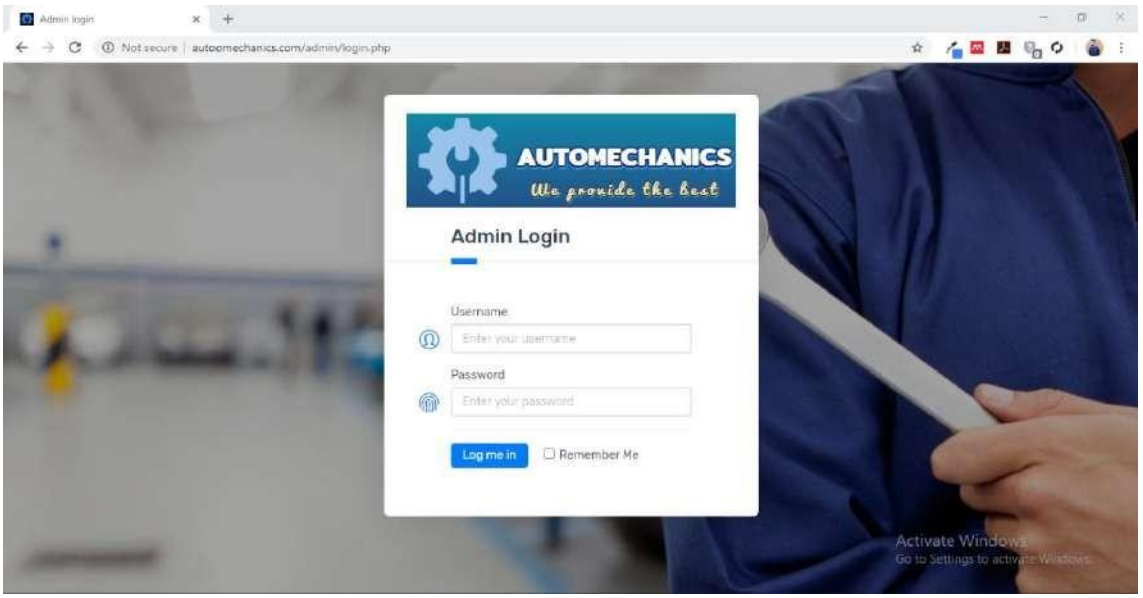

Figure 5.2: Log-In Page Admin Panel

5.1.3 Admin Dashboard

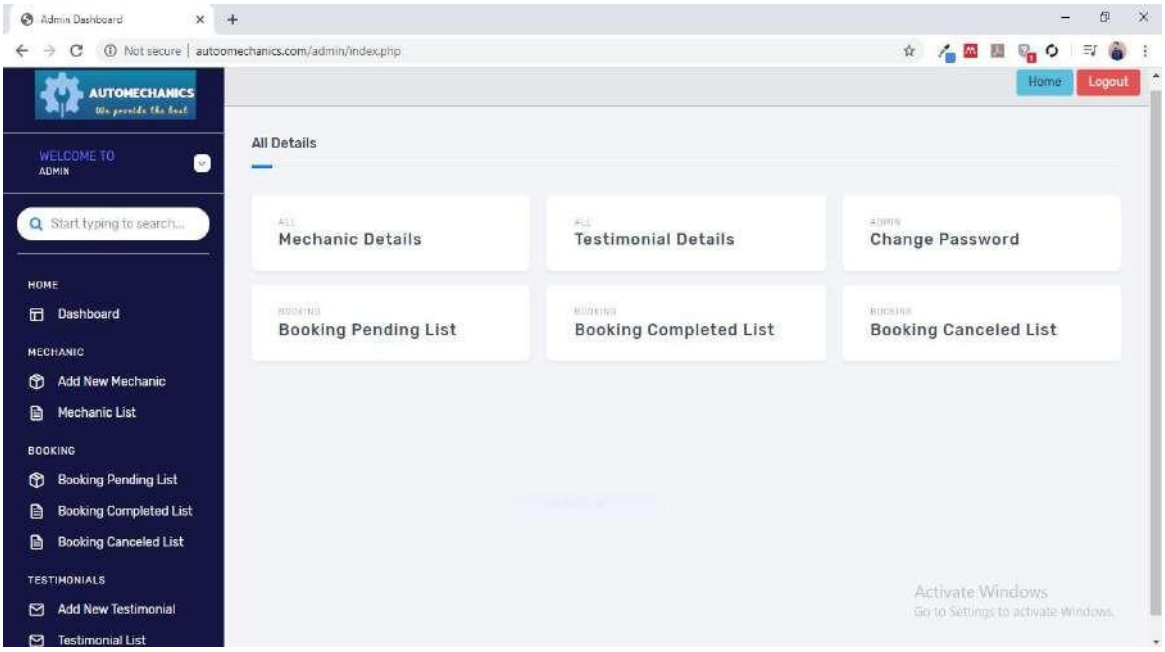

Figure 5.3: Admin Dashboard

5.1.4 Mechanic Details

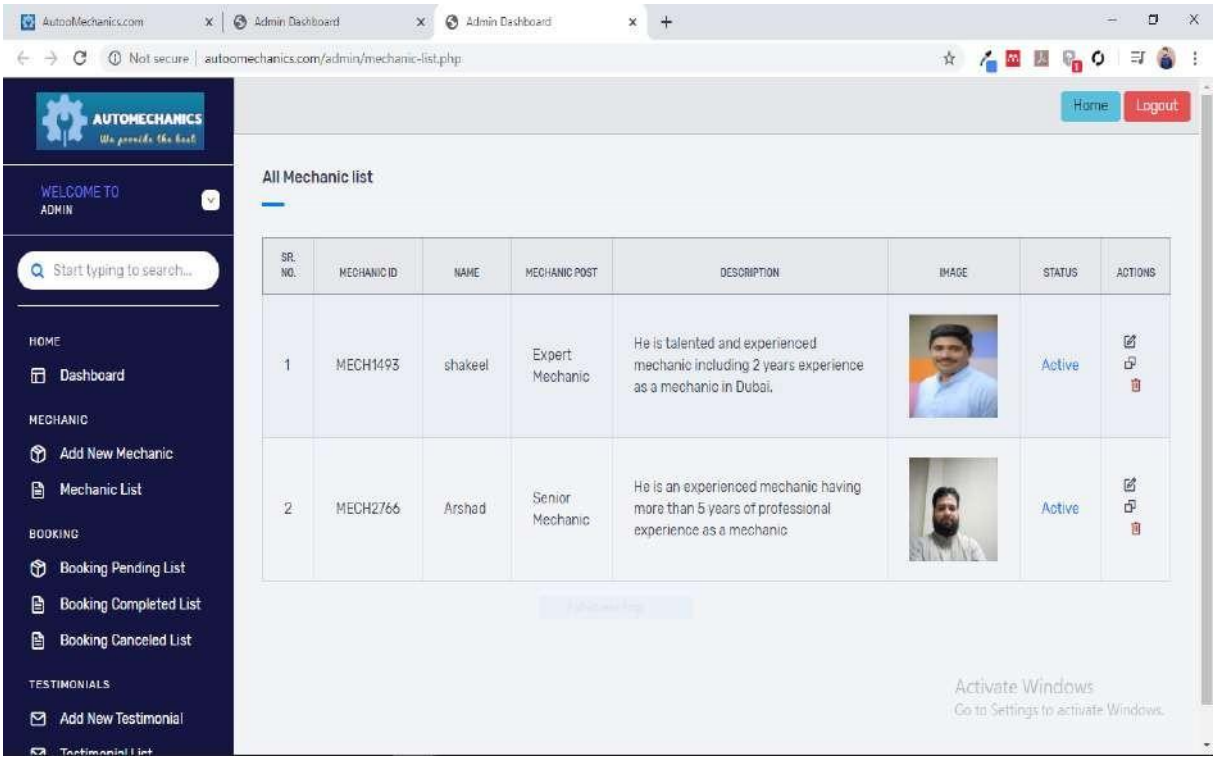

Figure 5.4: Mechanic details

5.1.5 Testimonial Details

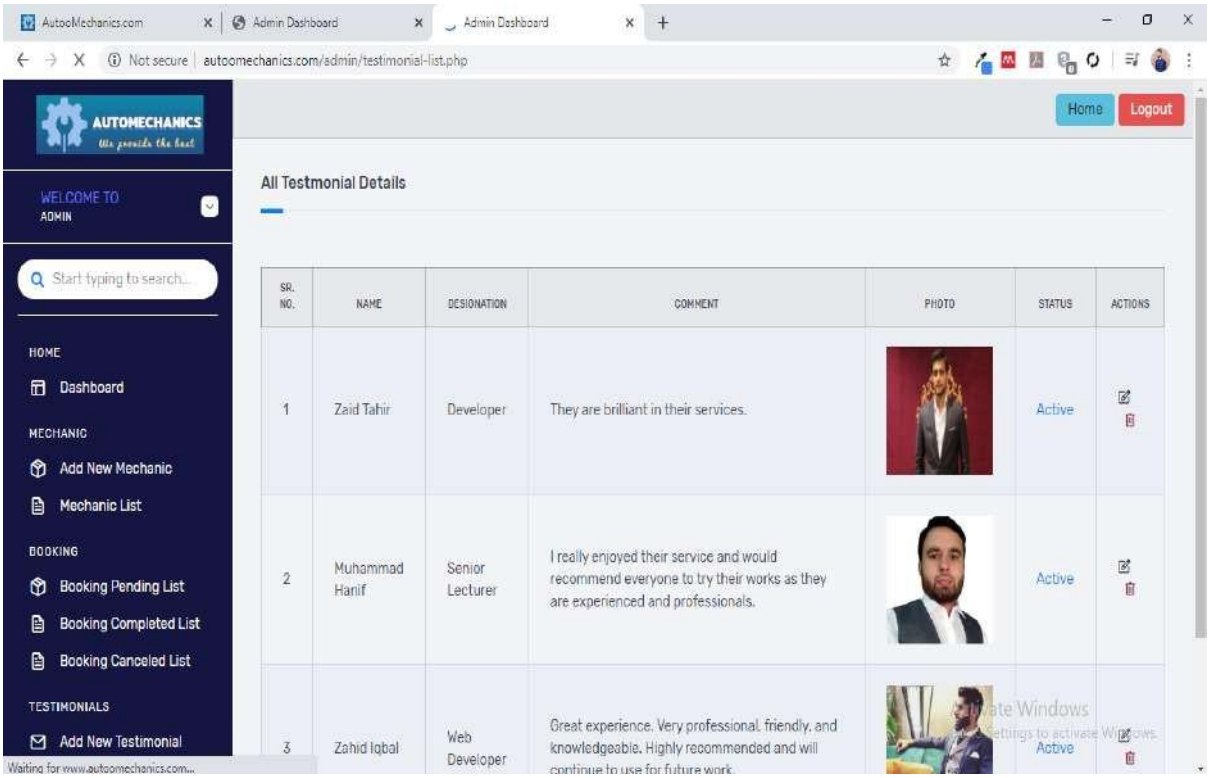

Figure 5.5: Testimonial Details

5.1.6 Change Password

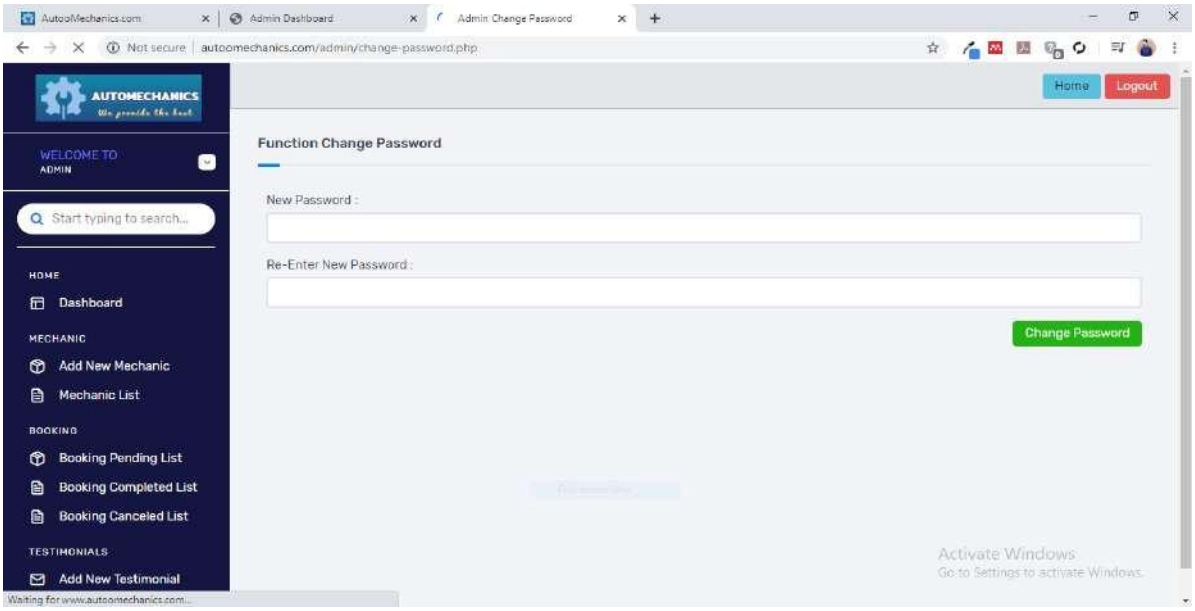

Figure 5.6: Change Password

5.1.7 Booking Pending List

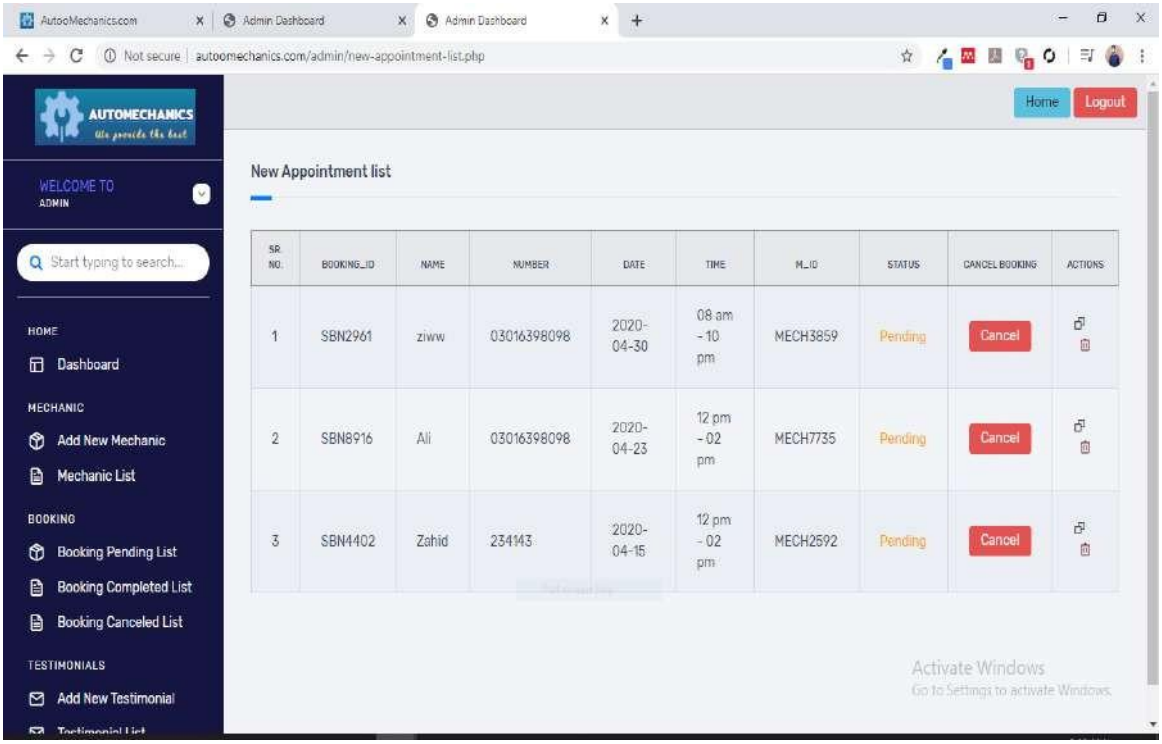

Figure 5.7: Booking Pending List

5.1.8 Booking Completed List

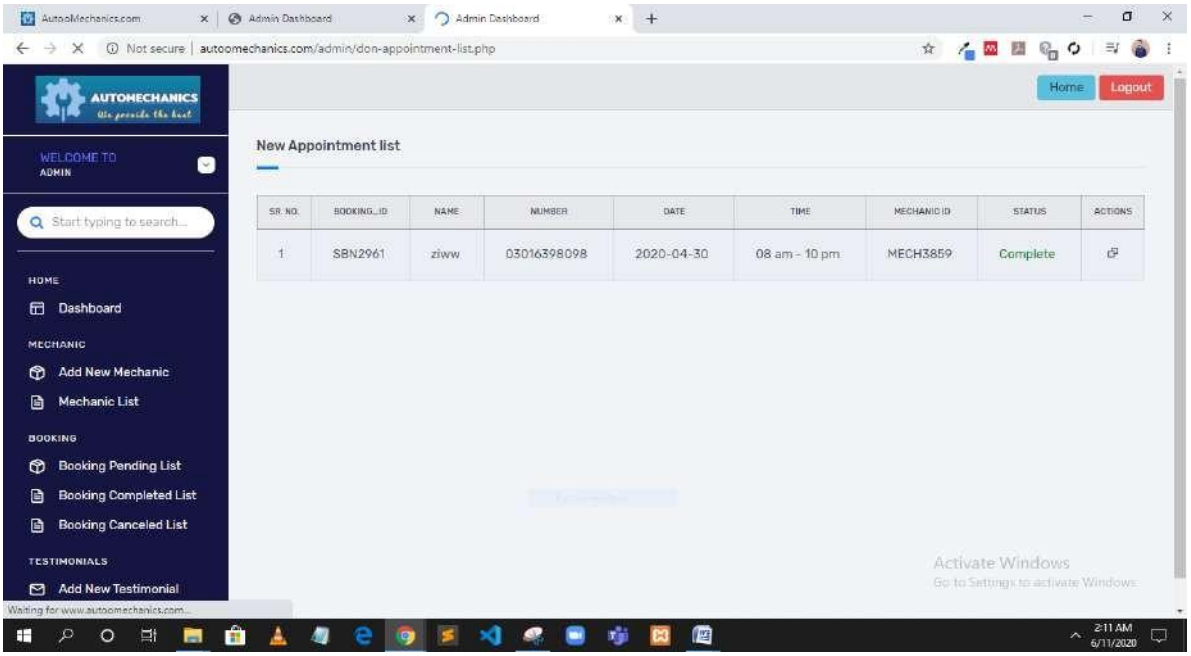

Figure 5.8: Booking Completed List

5.1.9 Booking Cancelled List

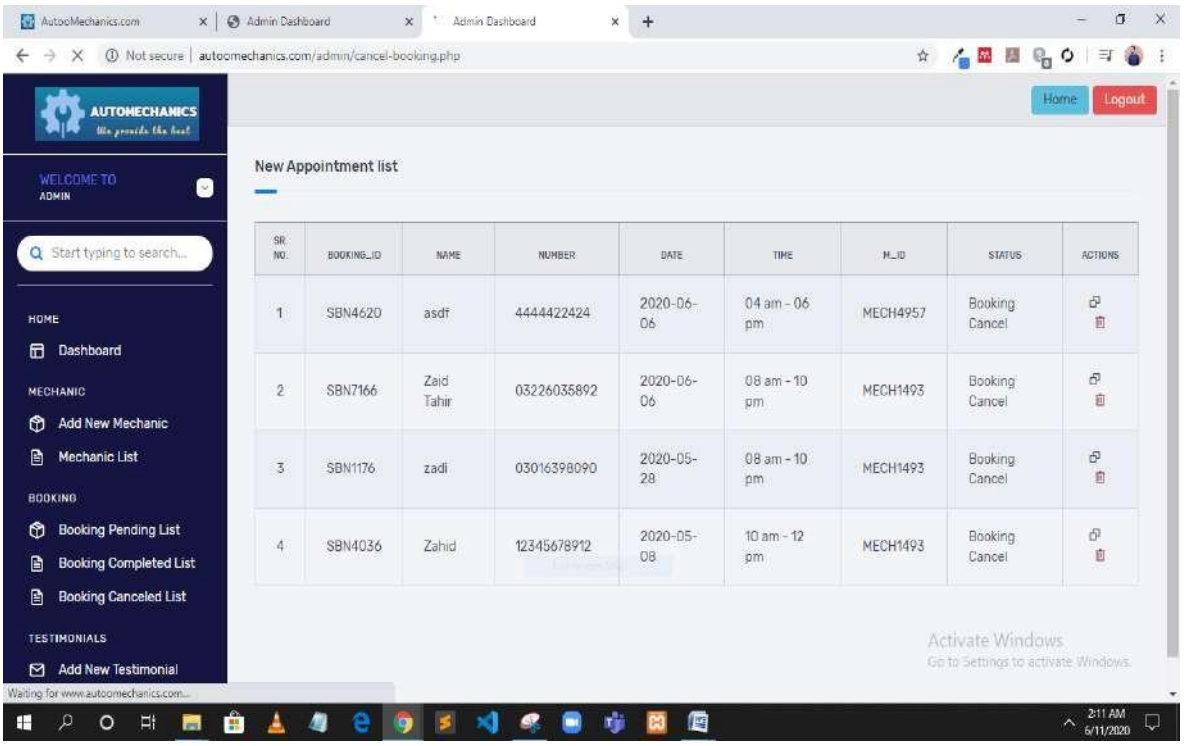

Figure 5.9: Booking Cancelled List

5.2 Index Page

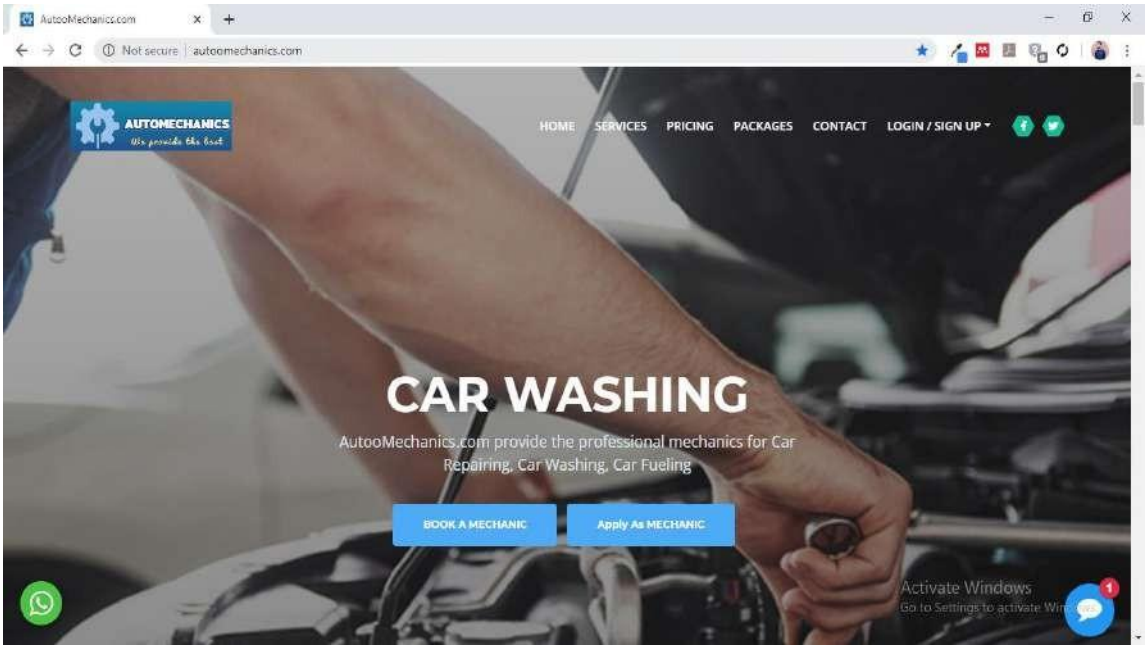

Figure 5.10: Index Page

5.2.1 INTRO

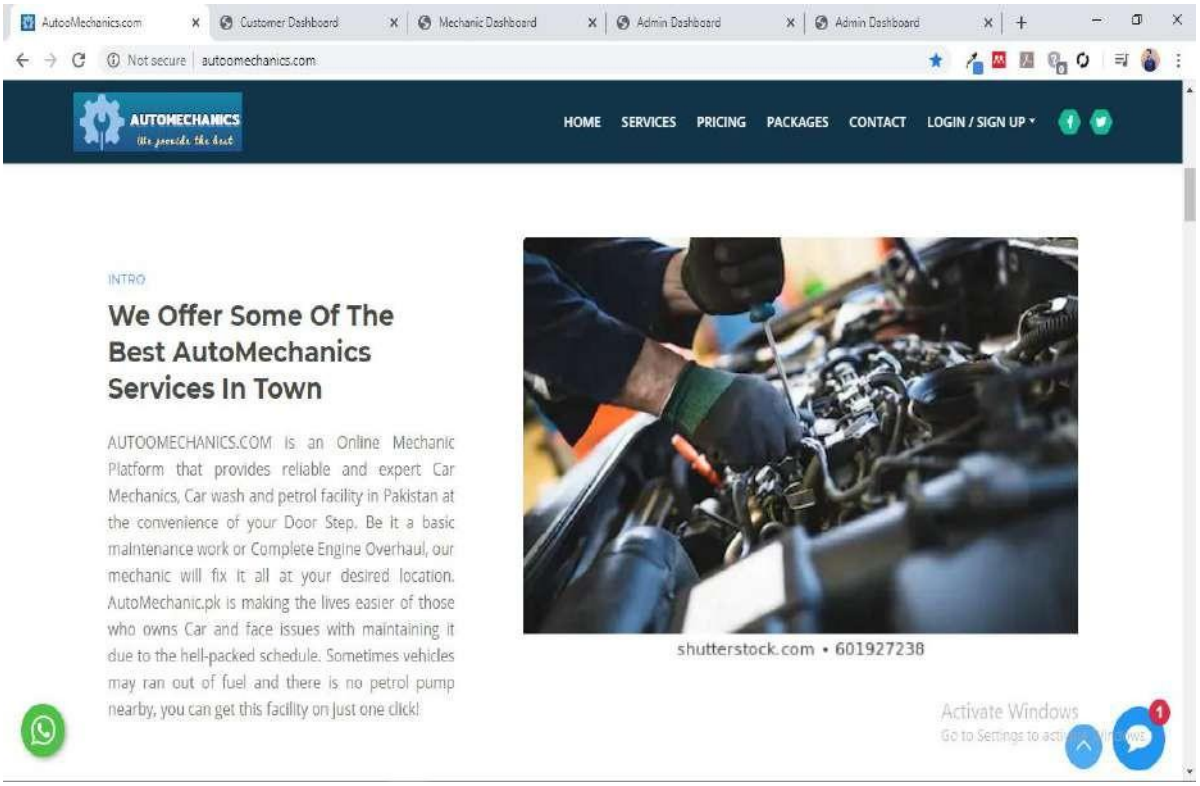

Figure 5.11: Intro

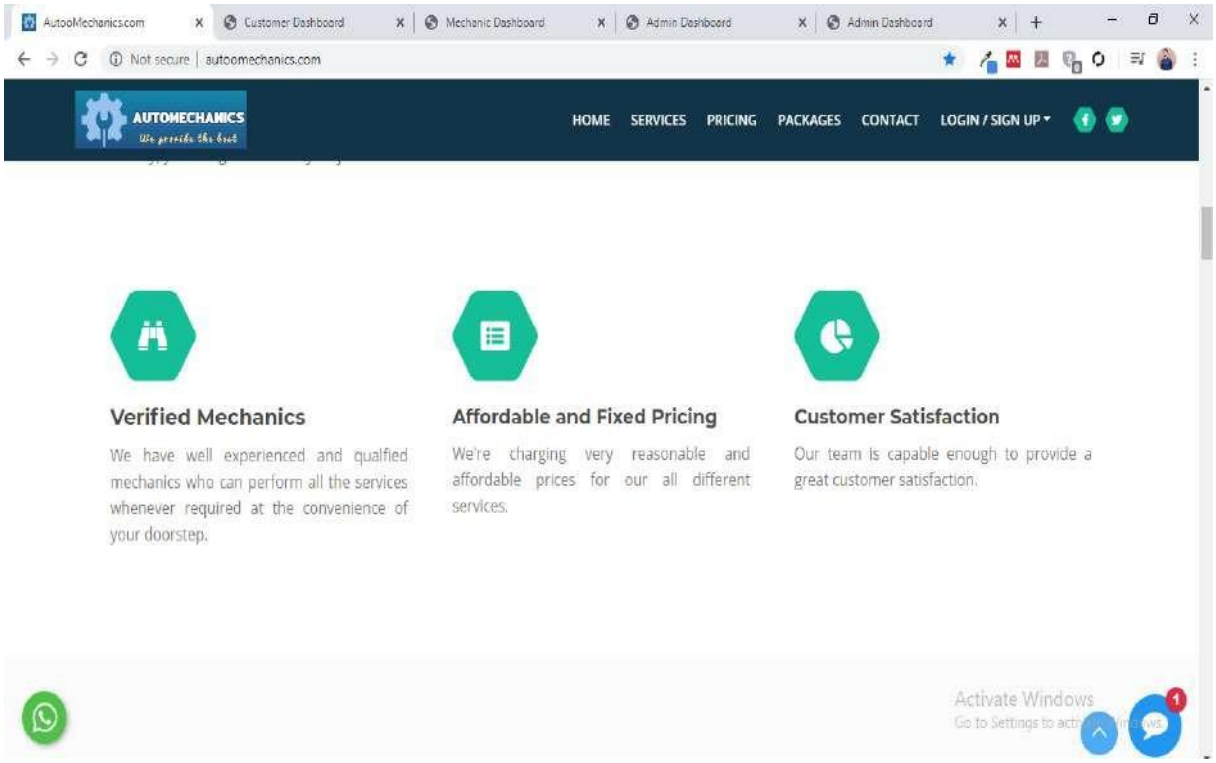

Figure 5.12: Intro

5.2.2 SERVICES

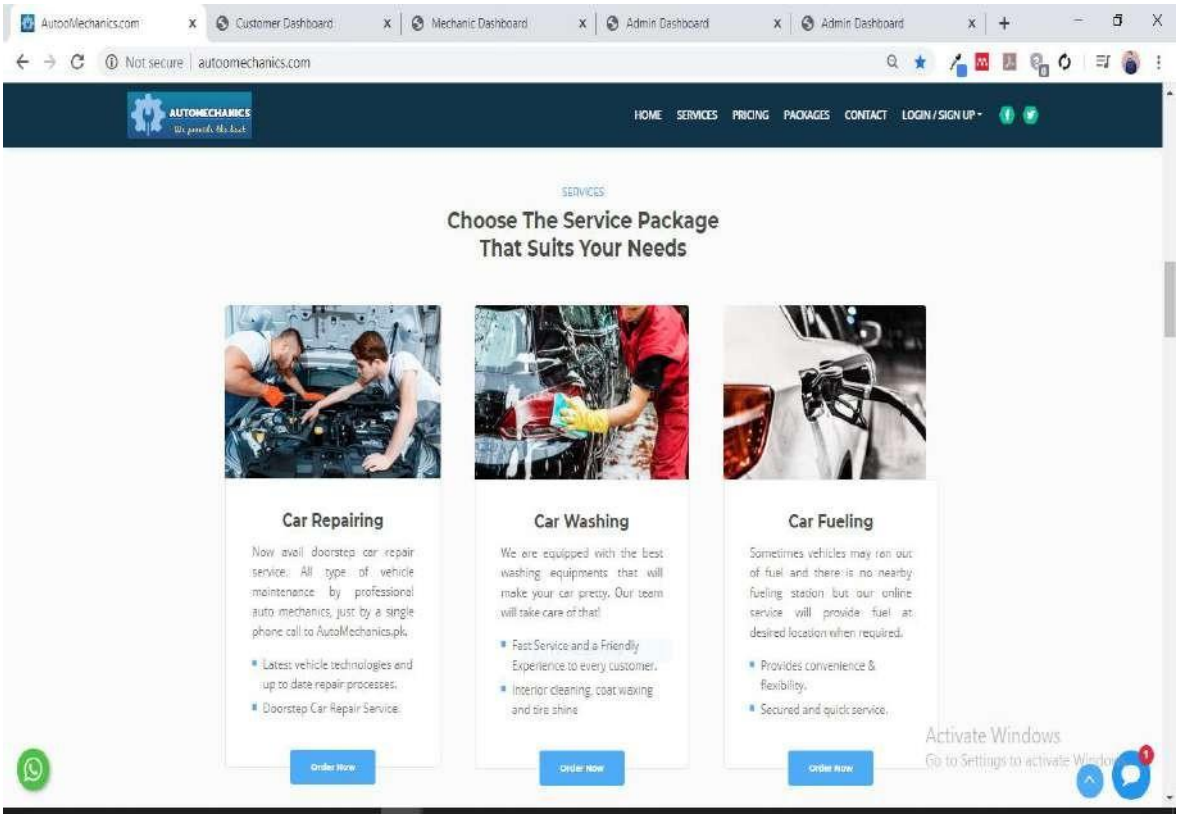

Figure 5.13: Services

5.2.3 PRICING

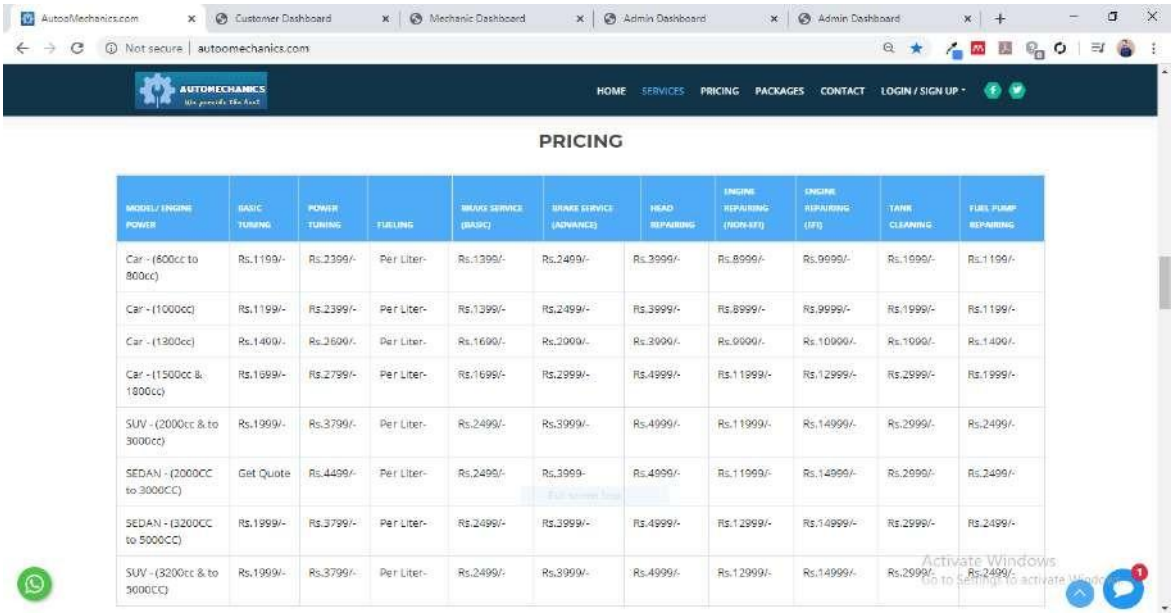

Figure 5.14: Pricing

5.2.4 OUR SERVICES

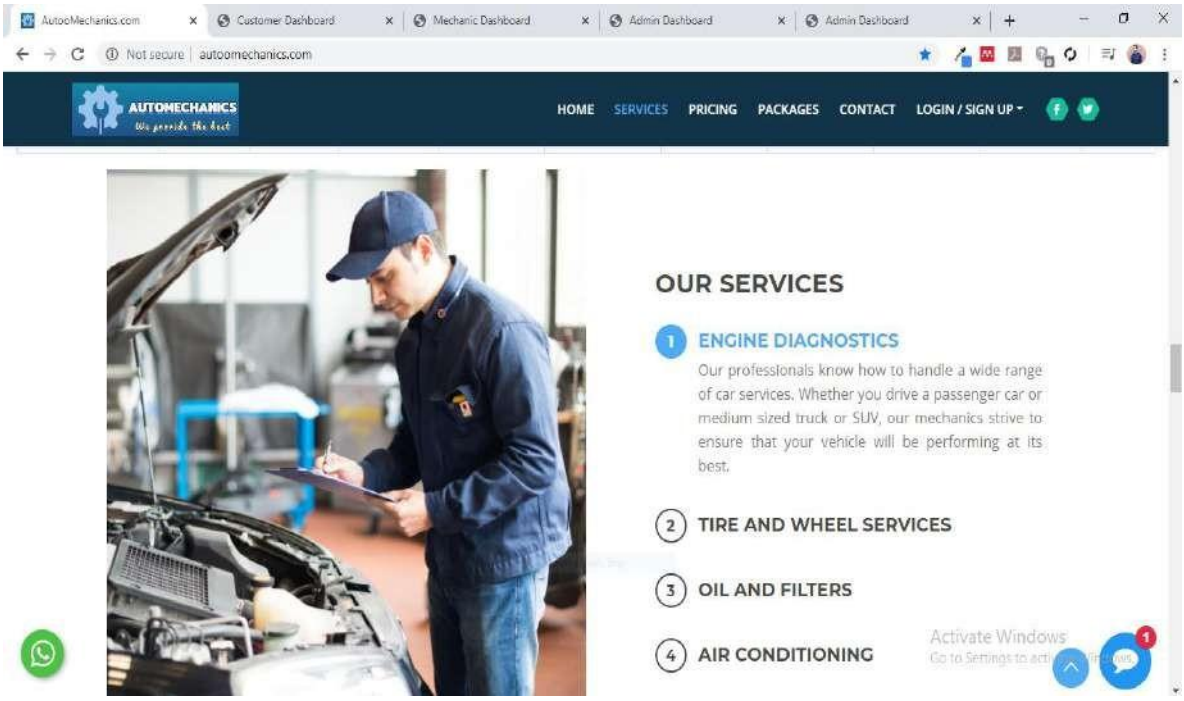

Figure 5.15: Our Services

5.2.5 OUR SKILLS

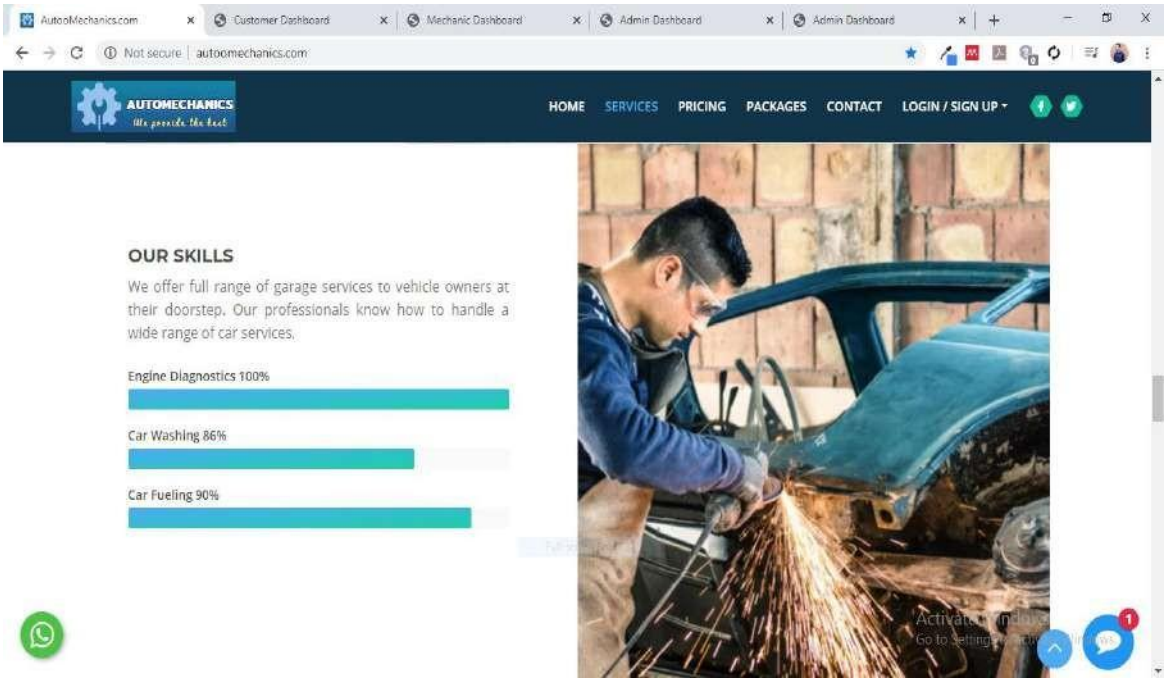

Figure 5.16: Our Skills

5.2.6 ABOUT

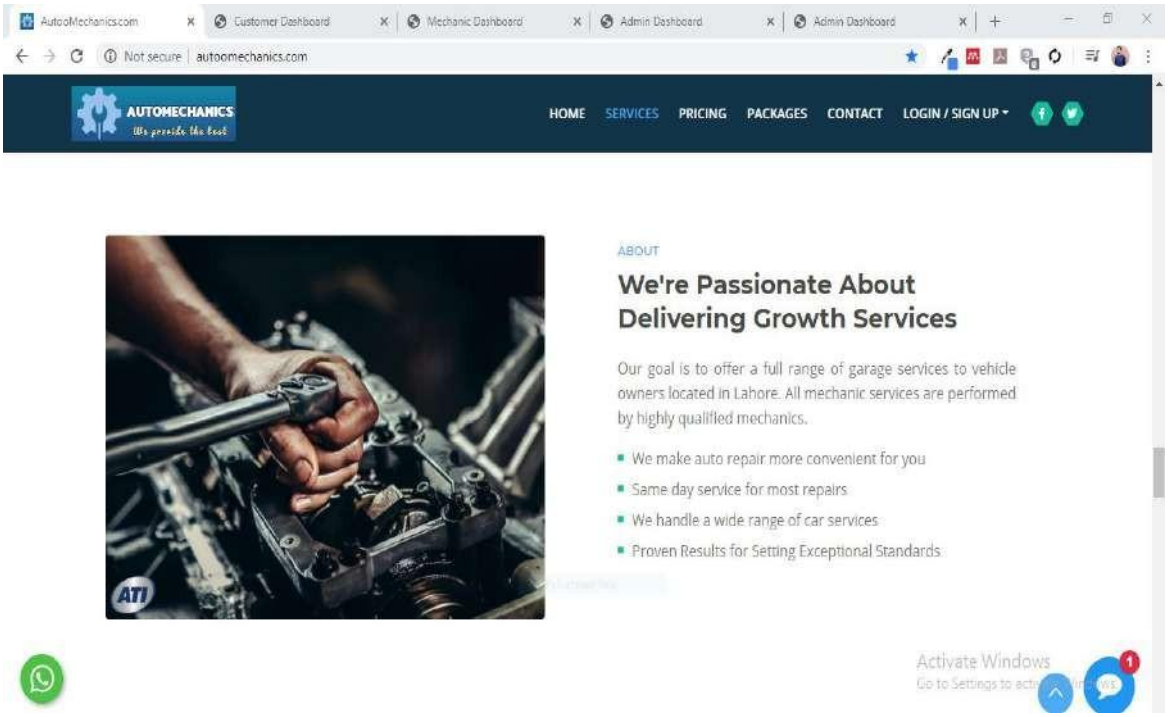

Figure 5.17: About

5.2.7 CLIENTS TESTIMONIALS

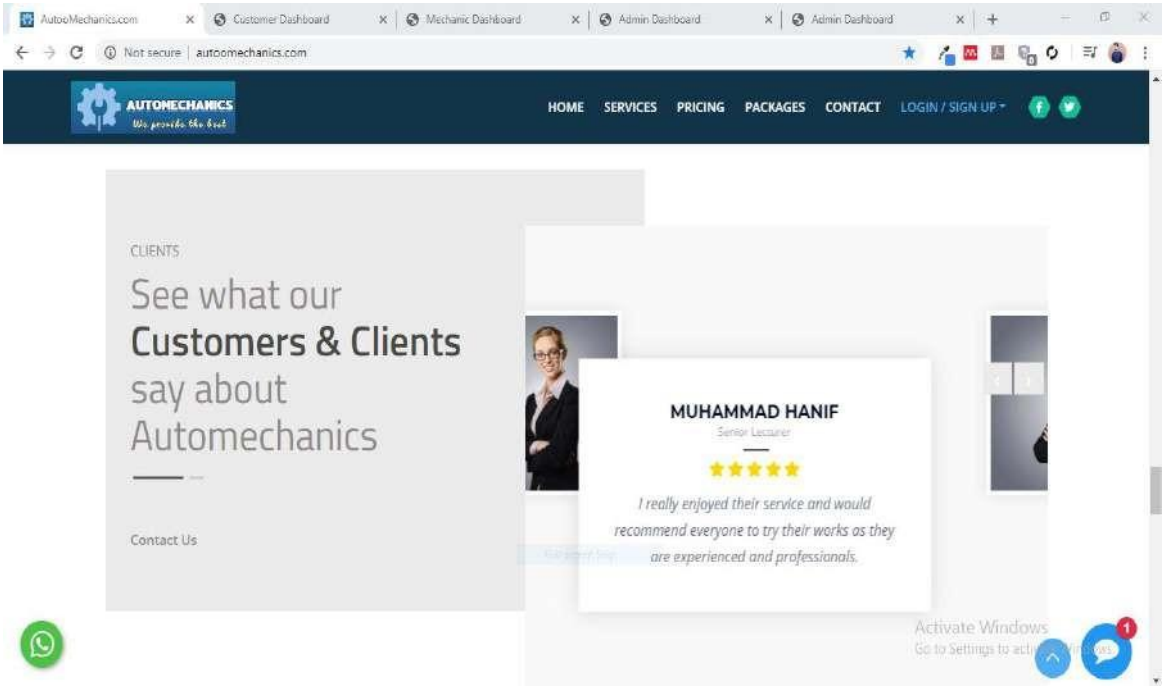

Figure 5.18: Clients Testimonial

5.2.8 MECHANICS LIST

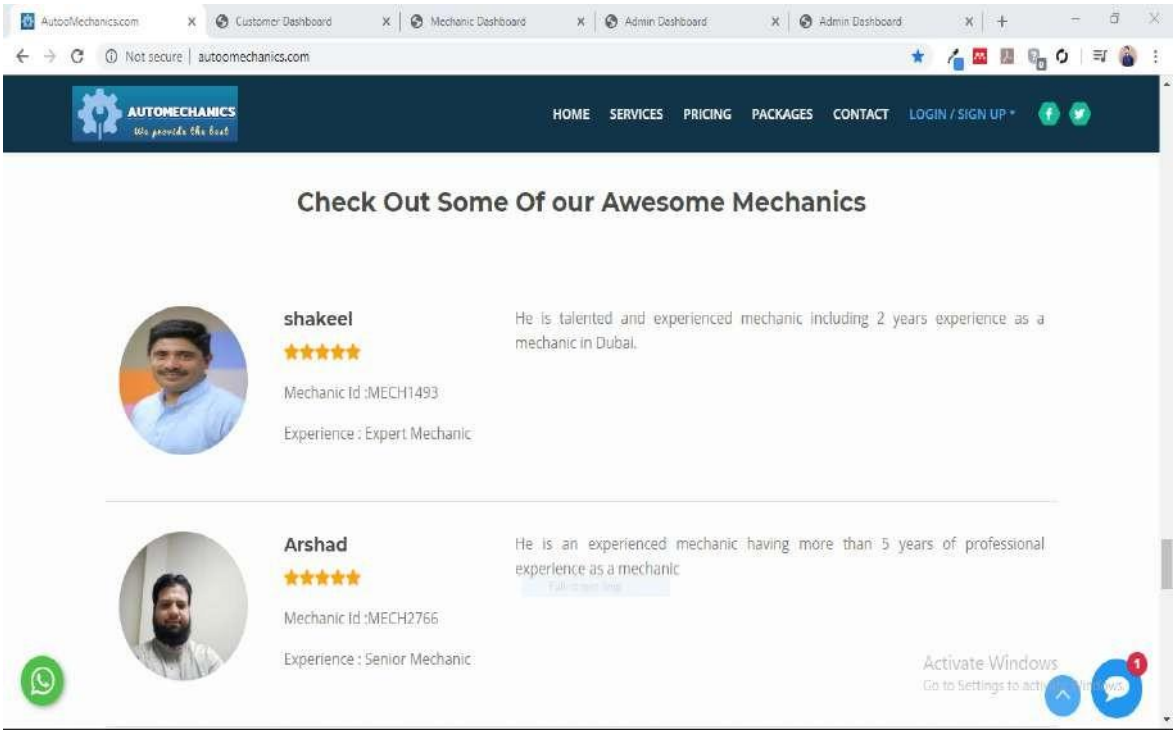

Figure 5.19: Mechanics List

5.2.9 OUR TEAM

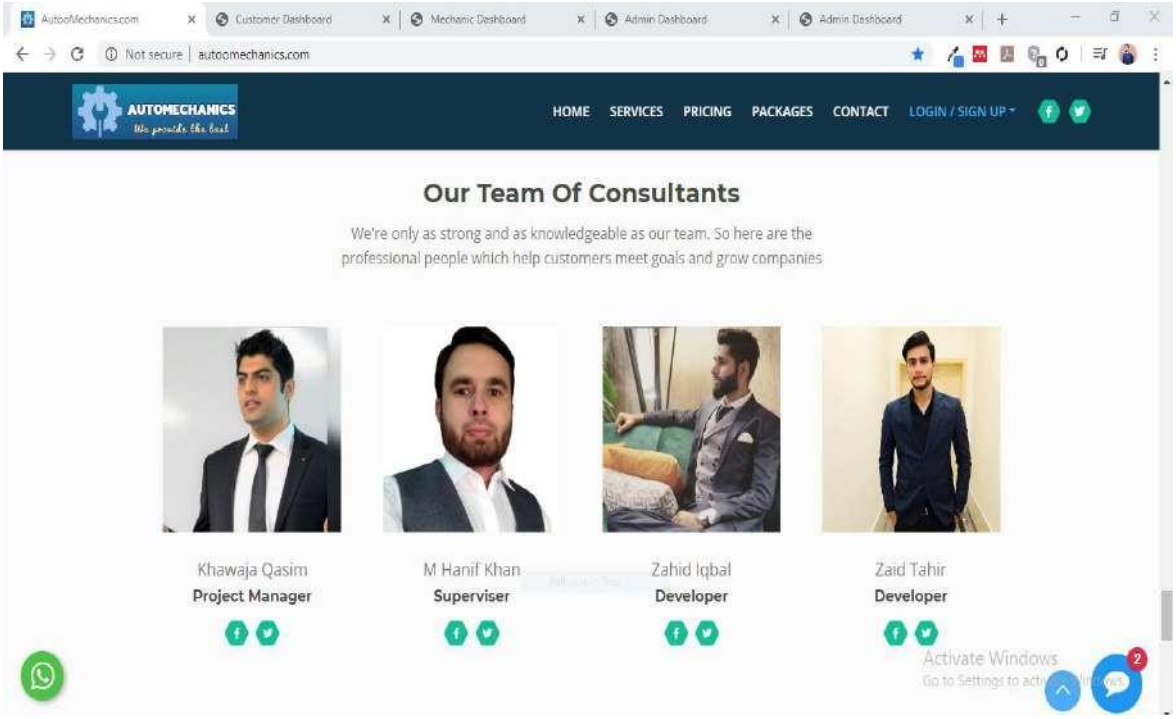

Figure 5.20: Our Team

5.2.10 CONTACT FORM

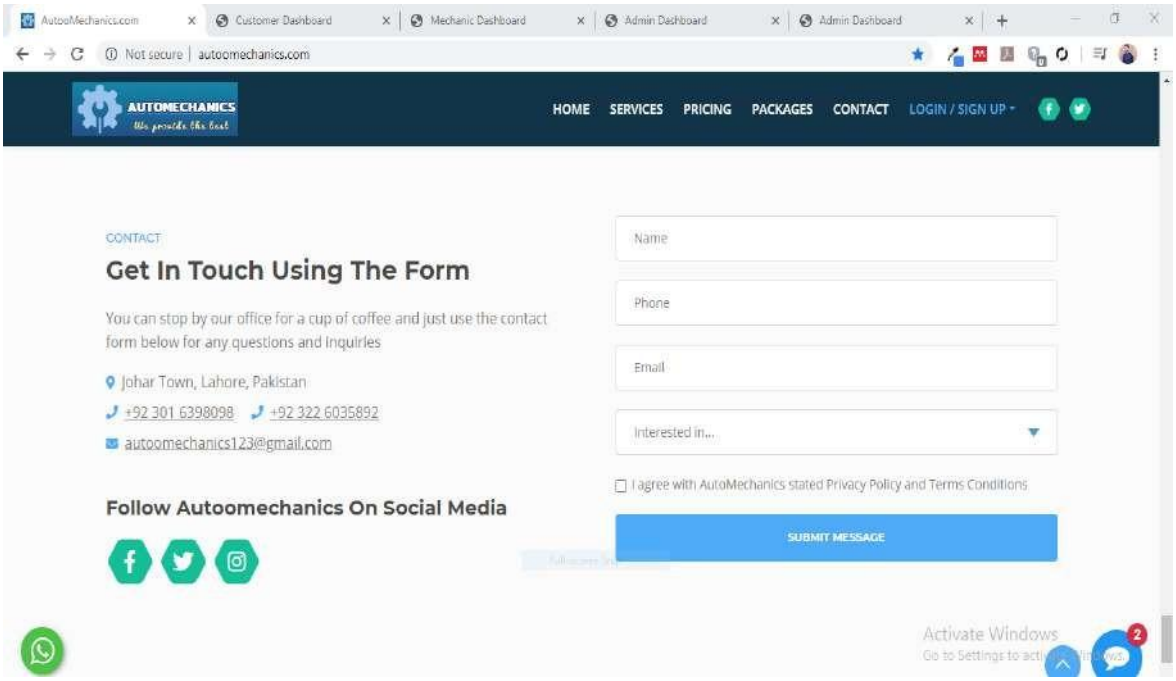

Figure 5.21: Contact Form

5.2.11 FOOTER

Figure 5.22: Footer

5.3 Customer Signup

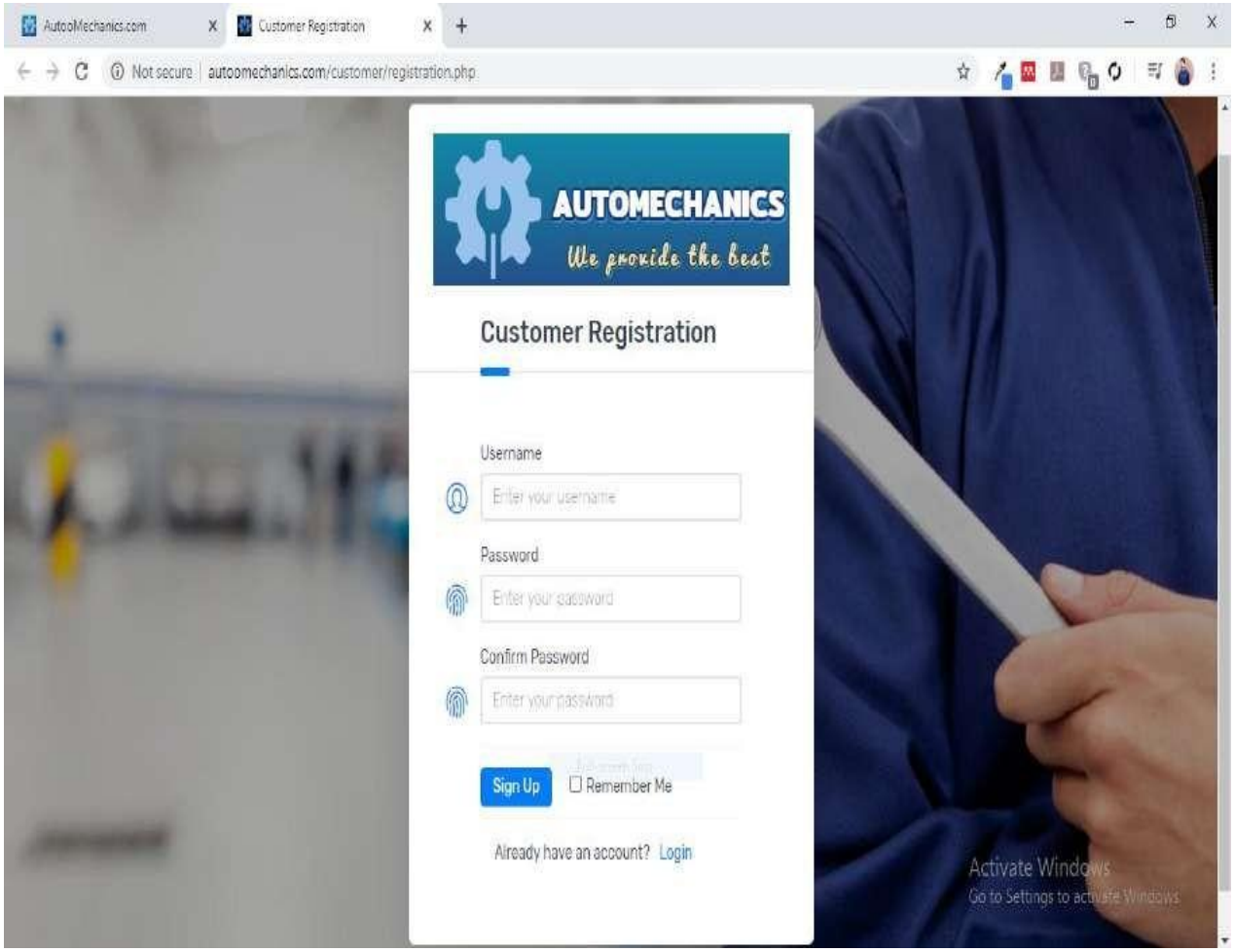

Figure 5.23: Customer Signup

5.3.1 Customer Login

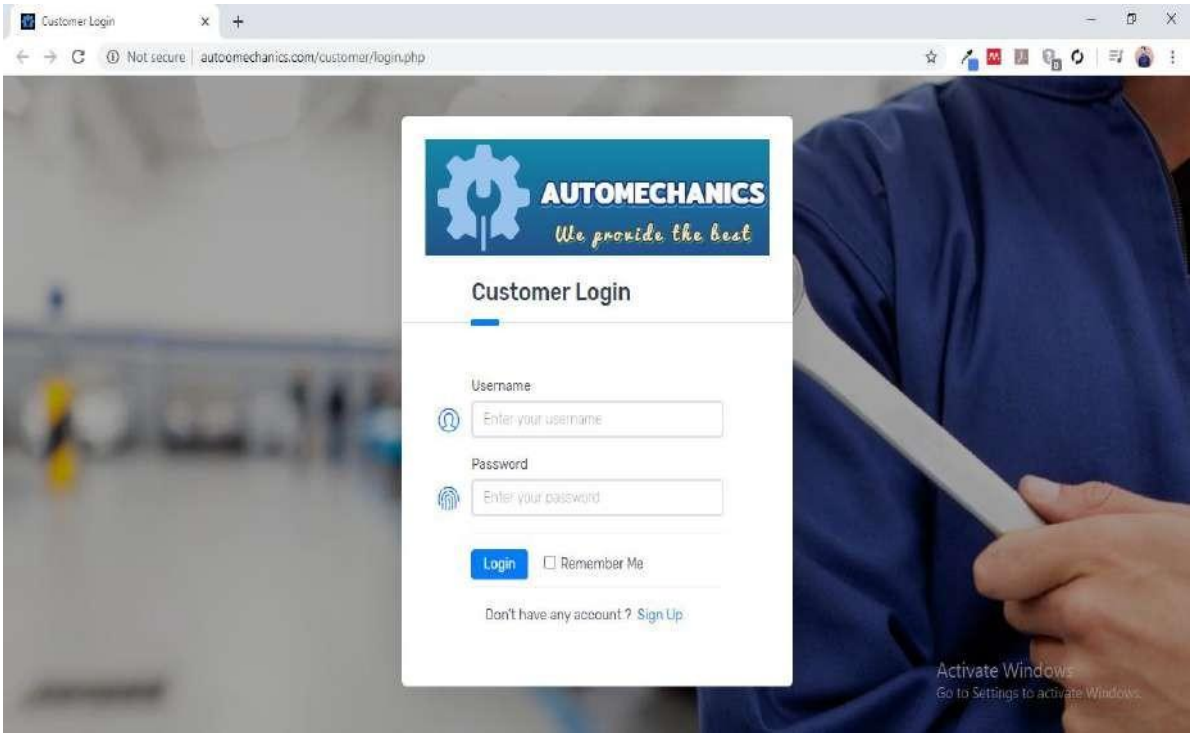

Figure 5.24: Customer Login

5.3.2 Customer Dashboard

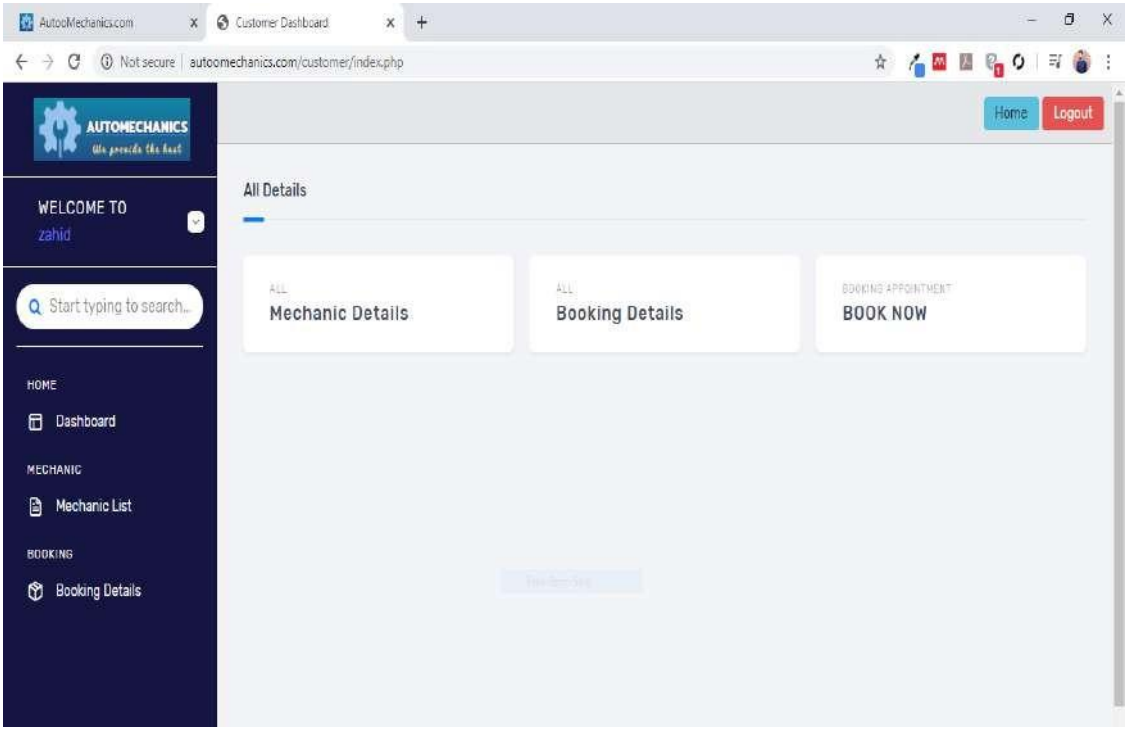

Figure 5.25: Customer Dashboard

5.3.3 MECHANIC LIST

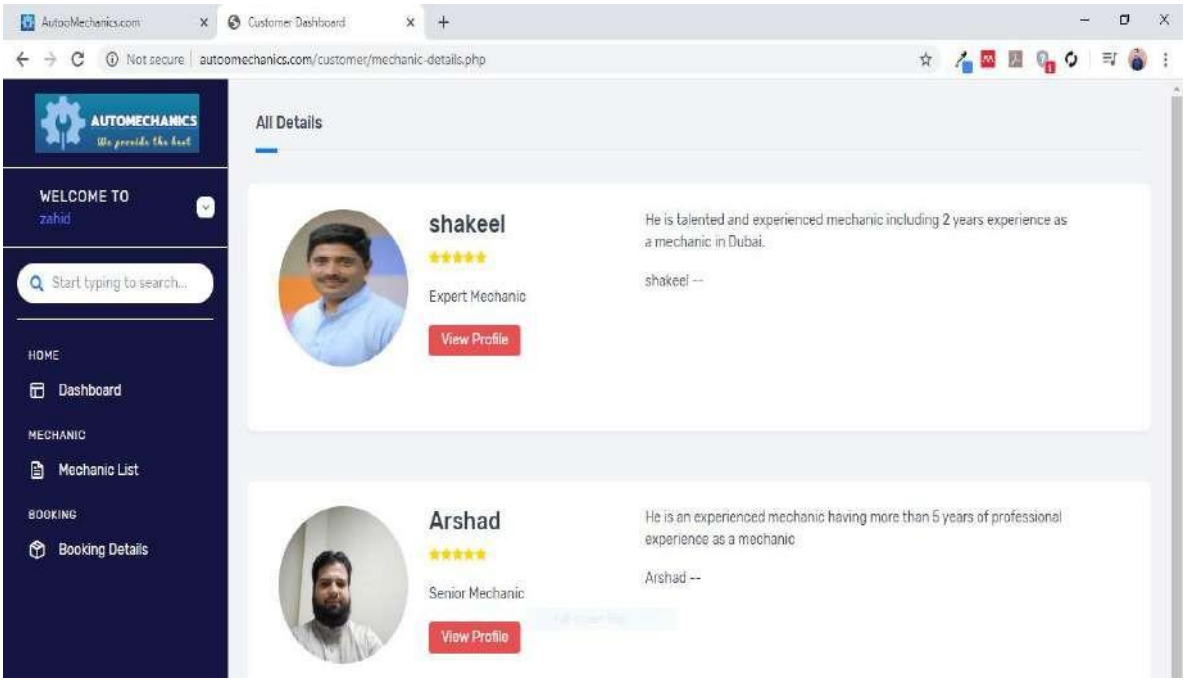

Figure 5.26: Mechanic List

5.3.4 BOOKING DETAILS

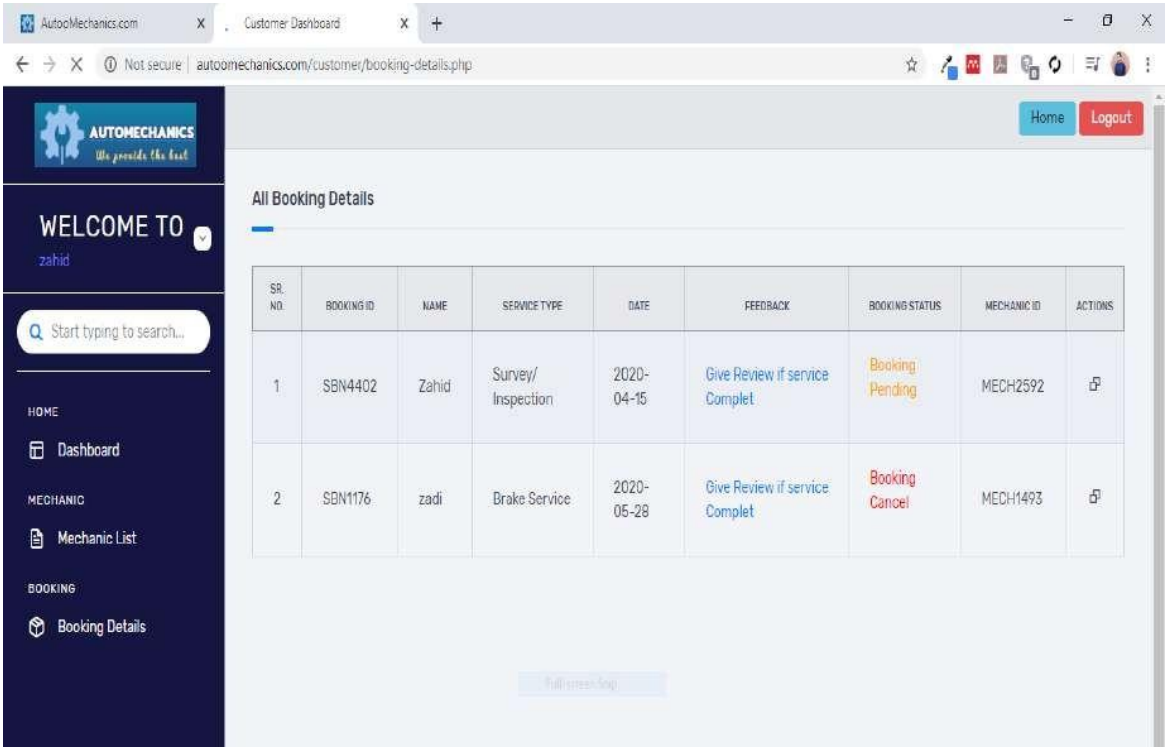

Figure 5.27: Booking Details

5.3.5 SELECT MECHANIC

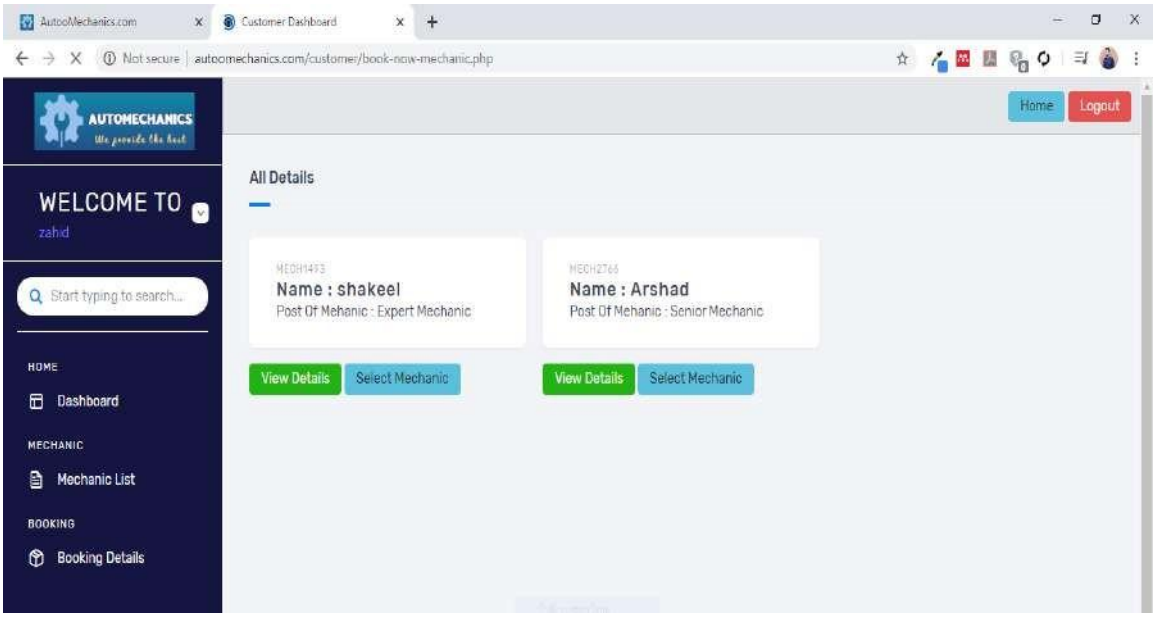

Figure 5.28: Select Mechanic

5.3.6 BOOKING FORM

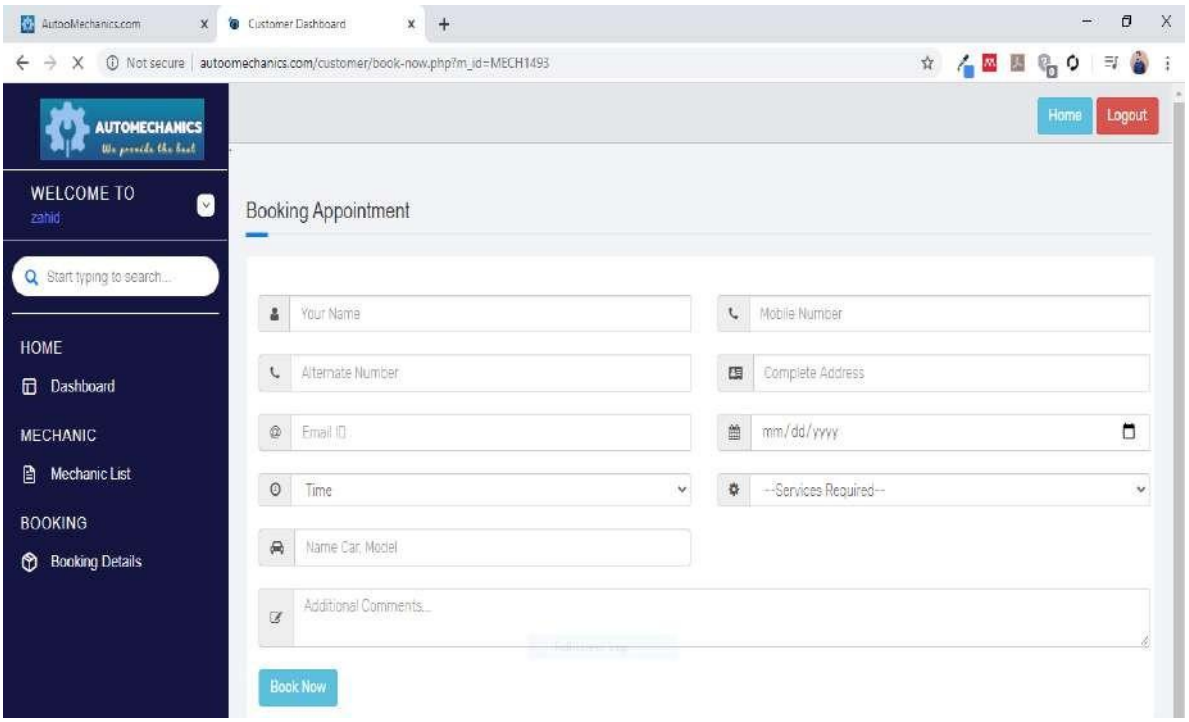

Figure 5.29: Customer Booking Form

5.4 Mechanic Login

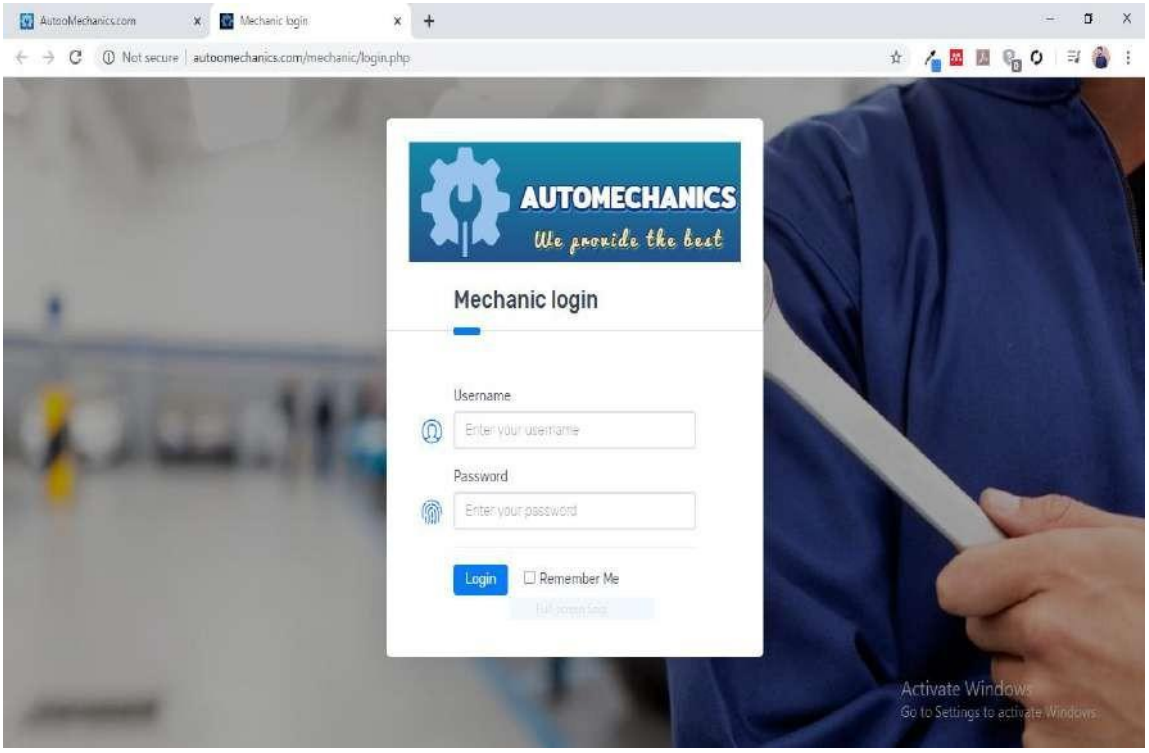

Figure 5.30: Mechanic Login

5.4.1 Mechanic Dashboard

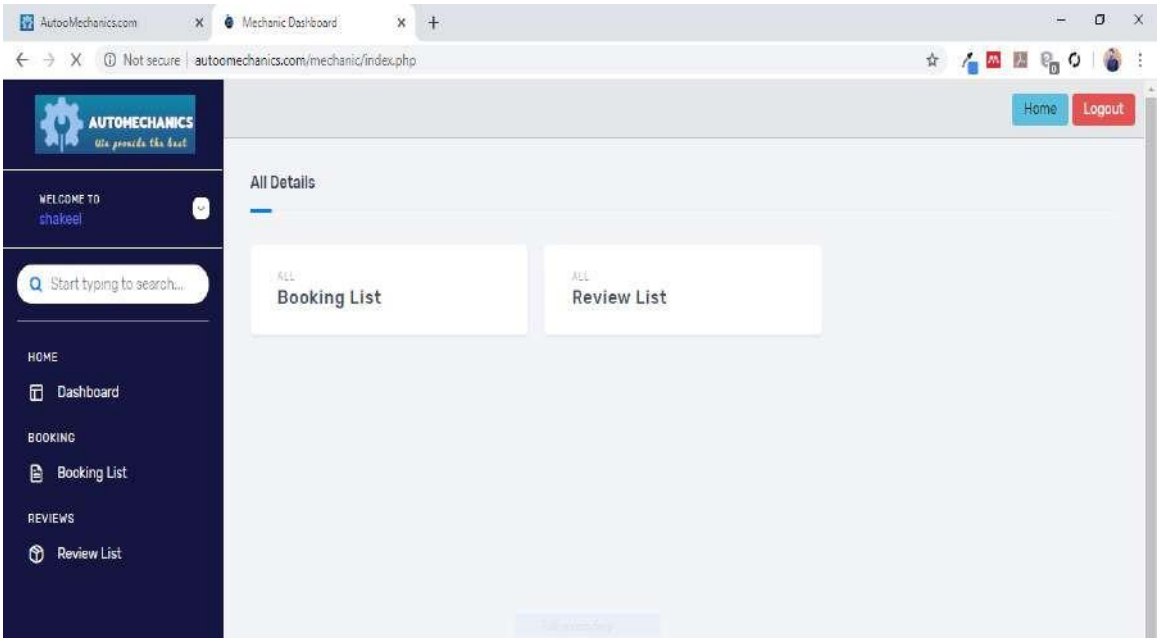

Figure 5.31: Mechanic Dashboard

5.4.2 Booking Details

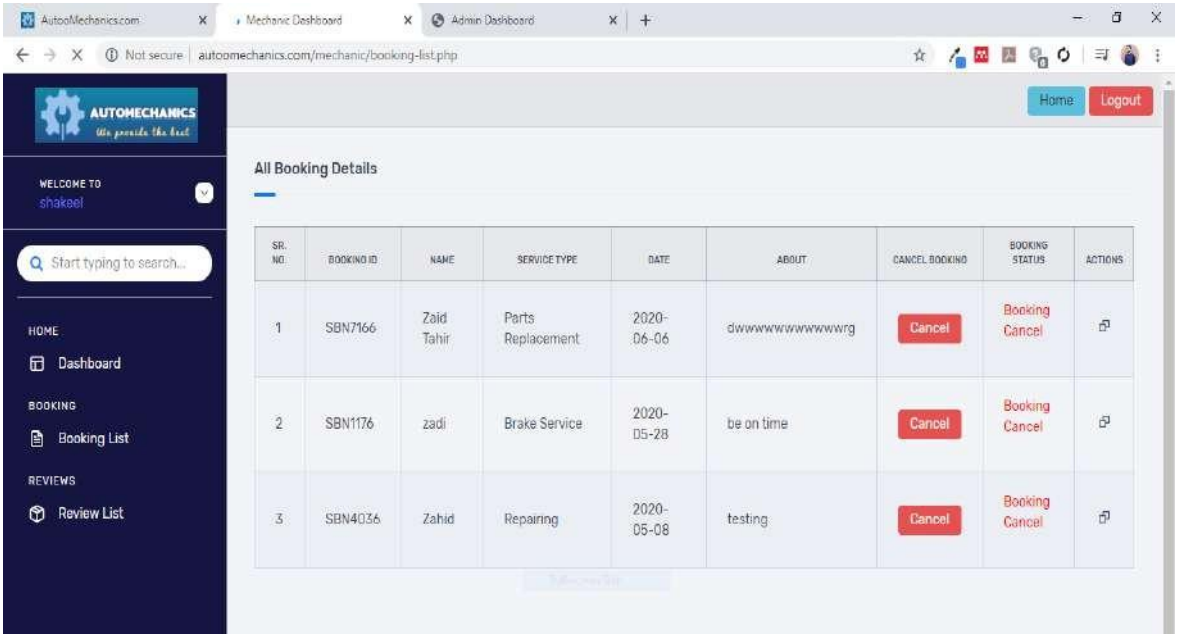

Figure 5.32: Booking Details

5.4.3 Mechanic Review List

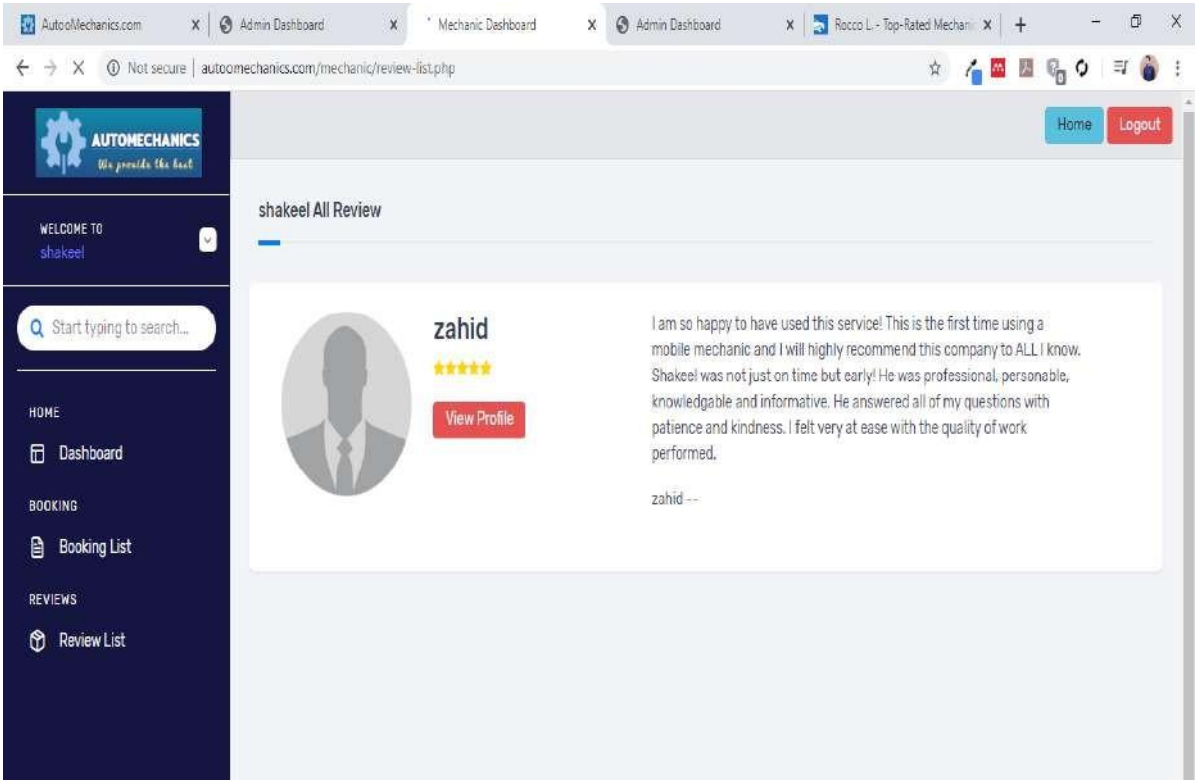

Figure 5.33: Mechanic Review List

CHAPTER 6

CONCLUSION AND RECOMMENDATIONS

All the vehicle users which are facing different problems of repairing, washing and fuelling will get benefits by using our application. By just filling a simple form mechanic is on to their doorstep. It will just not benefit the vehicle user but also benefit the mechanics which are searching for work. Auto Mechanics will give them handsome money and provide a comfort level to the customers. Moreover, Auto Mechanics will take you out from the most embarrassing situation that is when you are on your way and your car is out of the gas in that situation you can order fuel for your vehicle by Auto Mechanics. Auto Mechanics will create new jobs in the market which will decrease the rate of unemployment in Pakistan. It will also affect in reducing the crime rate in Pakistan.

As now we are providing our services to only a specific areas of Lahore but in future our plan is to provide our services to the whole city and after then in whole province and then in whole Pakistan. Similarly we plan to add more services in it. This will increase more number of jobs and provide more people a handsome income through which they can run the circle of their lives.

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APPENDICES

APPENDIX A: Logo

Logo Image:

A.1: Logo Image

Icon Image:

A.2: Icon Image