



*An Institute with a Difference*

# **RNS INSTITUTE OF TECHNOLOGY**

## **BENGALURU - 98**



# **DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

## **Presentation on Internship**

## ***AUTOMOBILE SERVICE STATION***

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**USN: 1RN14IS350**



**TechieAid**

**Internal Guide**

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**External Guide**

**Mr. Ramesh Kumar**

Techie Aid



# AGENDA



- ☐ Abstract
- ☐ About the Company
- ☐ Introduction
- ☐ Requirements
- ☐ System Design
- ☐ Detailed Design
- ☐ Implementation
- ☐ Testing
- ☐ Conclusion and Future Enhancement
- ☐ References
- ☐ Q & A



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# ABOUT THE COMPANY



- TechieAid is the IT services company registered under Govt. of India, Ministry of Micro, Small & Medium Enterprises.
- They offer IT Staffing Solutions, Technology Trainings, Leadership & Soft Skills Training, Software Development Services and Coaching & Mentoring.
- Their clients are reputed MNC companies and leading academic institutions.
- Their Mission is to empower their customers with necessary knowledge, skills and resources for them to succeed in their endeavors.



# ABSTRACT

- The purpose of this project is to automate the existing manual system with the help of computerized equipment and deliver full-fledged working software
- Automobile Service Station, as described above, can lead to error free, secure, reliable and fast management systems
- Thus, it will help the organization in better utilization of resources and platform to access the services.
- Basically, the project describes how to manage and have good performance and better services for the clients.
- The single application which caters all the details of services along with detailed description that are offered to the clients or end users by the company

# INTRODUCTION

- This is a real time project, where we have designed a web portal for RN Automotive and Refrigeration, an Automobile Service Station which provides automobile related services to the customers.
- This is helpful in the real time environment where we replace file system with the database to store data efficiently.
- The software created is fast, reliable and secure

# REQUIREMENTS

## Software Requirements

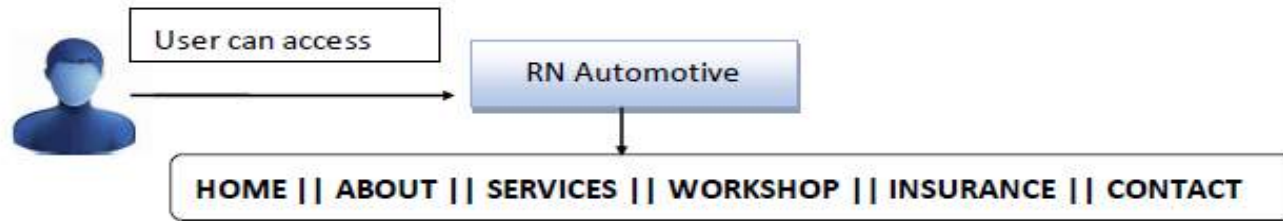
Name of Components	Specification
OperatingSystem	Windows 10
Language	HTML, CSS, C#, JavaScript, Bootstrap
Database	MSSQL
Browser	Chrome, IE
Integrated Development Environment	Microsoft Visual Studio 2019, Microsoft SQL Server 2019

## Hardware Requirements

Name of Components	Specification
Processor	10 <sup>TH</sup> Gen CORE i7 Processor
RAM	8GB
Hard Disk	512 GB SSD

# SYSTEM DESIGN

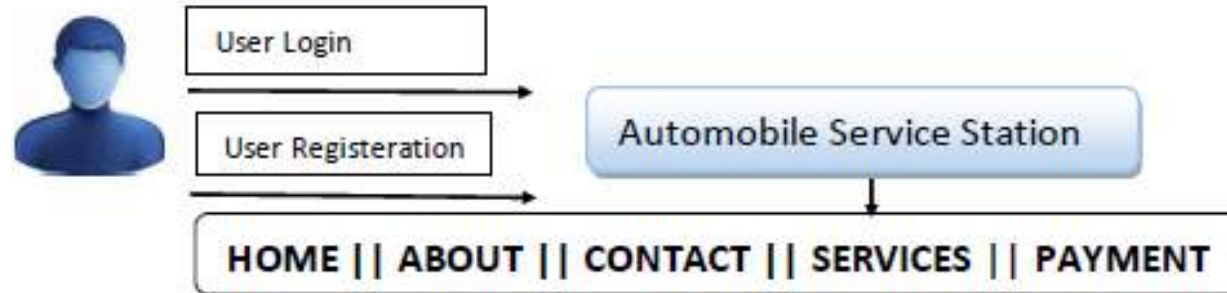
## CURRENT DESIGN:



Current Automobile Service Station Design

# SYSTEM DESIGN

## PROPOSED DESIGN:



Proposed Automobile Service Station Design





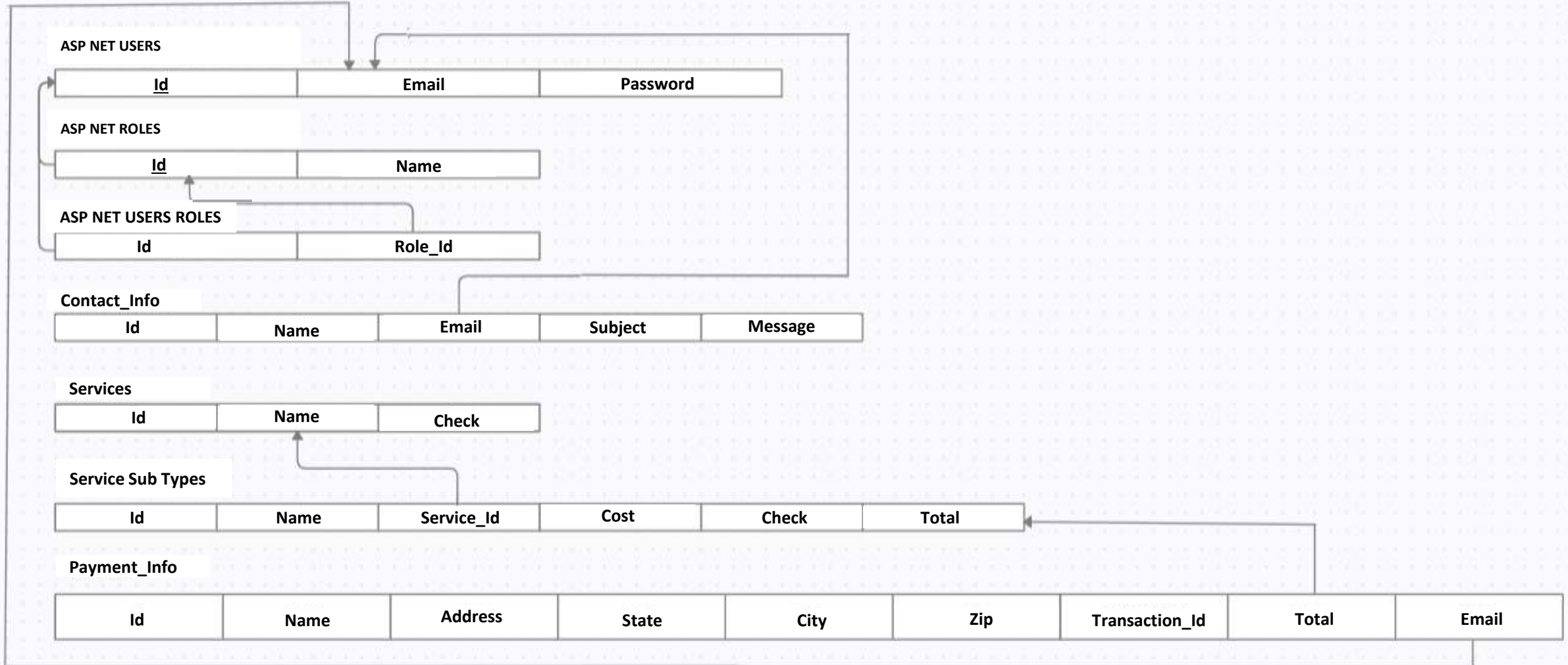
ESTD : 2001

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# SYSTEM DESIGN

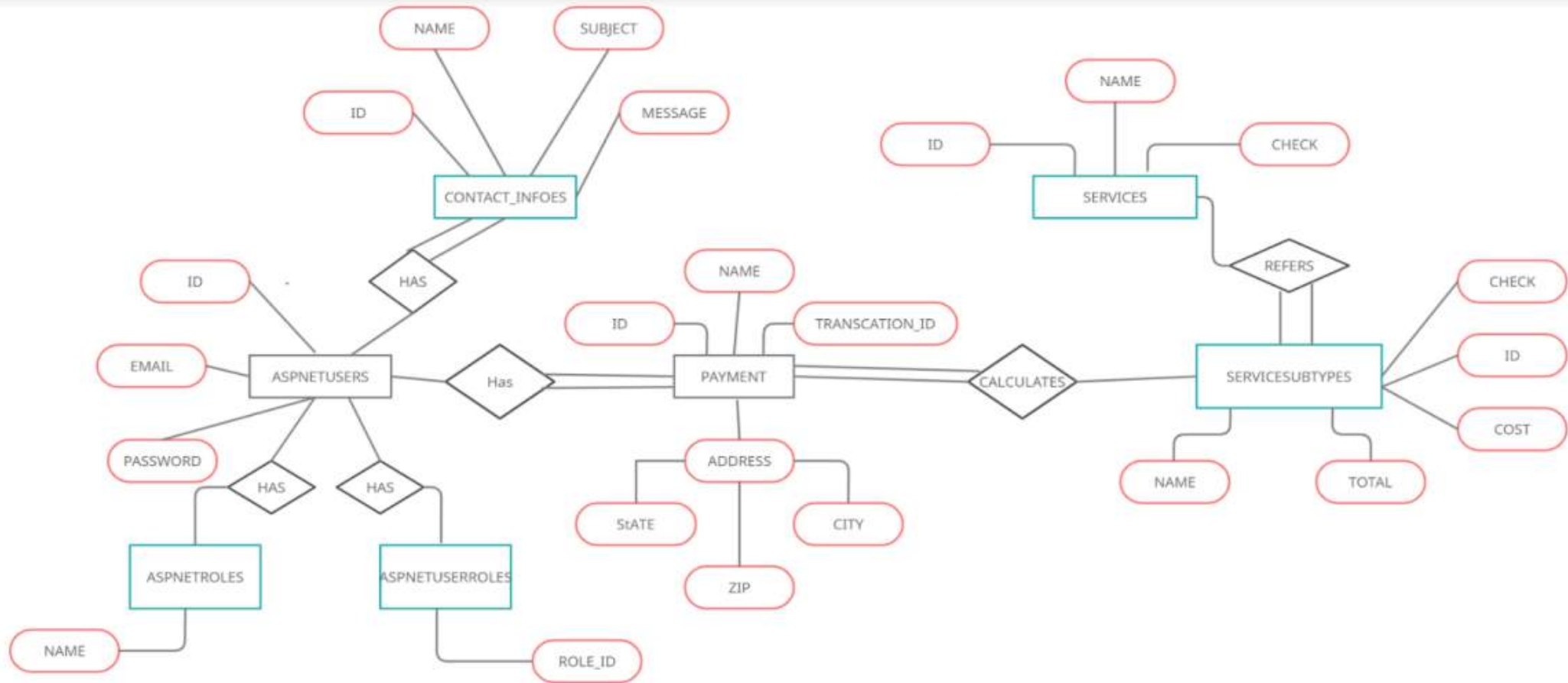


## SCHEMA DIAGRAM:



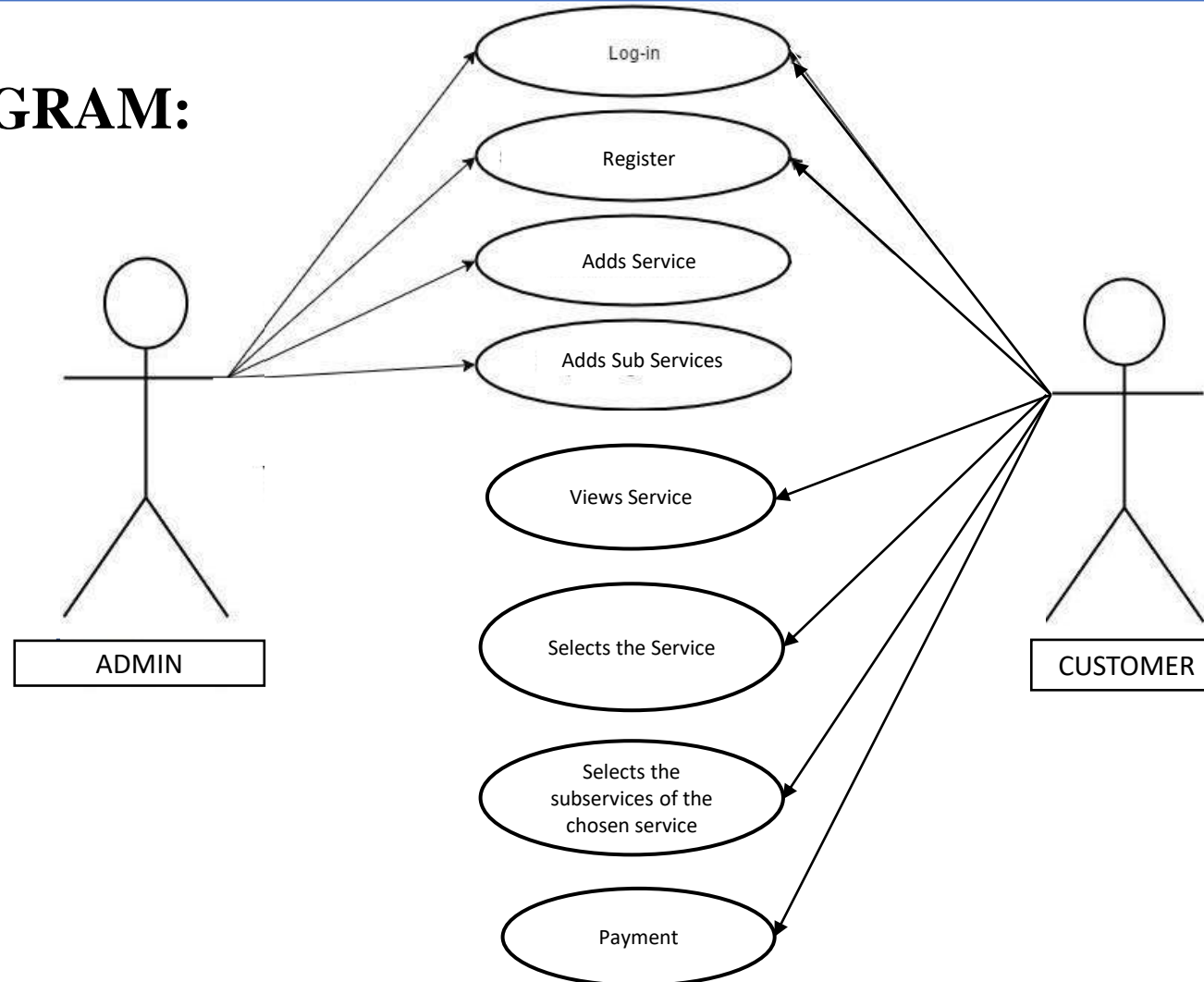
# SYSTEM DESIGN

## ER DIAGRAM:



# DETAILED DESIGN

## USE-CASE DIAGRAM:



# IMPLEMENTATION

**4.4.1. Web Config:** The below code defines the database connection string configuration.

```
<connectionStrings>
  <add name="DefaultConnection"
    connectionString="Data Source=DESKTOP-3JMLSMQ\SQLEXPRESS;
    Initial Catalog=ServiceDB;Integrated Security=True"
    providerName="System.Data.SqlClient"/>
  <add name="ServiceContext"
    connectionString="Data Source=DESKTOP-3JMLSMQ\SQLEXPRESS;
    Initial Catalog=ServiceDB;Integrated Security=True"
    providerName="System.Data.SqlClient"/>
</connectionStrings>
```

# IMPLEMENTATION

**4.4.2. Service Context :** The defined methods fetch the data from the database for each type.

```
using System;
using System.Collections.Generic;
using System.Data.Entity;
using System.Linq;
using System.Web;

namespace AutomobileServiceStation.Models
{
    public class ServiceContext:DbContext
    {
        public DbSet<Service> services {get; set;}
        public DbSet<ServiceSubType> serviceSubType {get; set;}
        public DbSet<ContactInfo> contact {get; set;}
        public DbSet<PaymentInfo> payment {get; set;}
    }
}
```

# IMPLEMENTATION

**Control: ServiceSubType:** This snippet shows the service sub list.

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.Entity;
using System.Linq;
using System.Net;
using System.Web;
using System.Web.Mvc;
using AutomobileServiceStation.Models;

namespace AutomobileServiceStation.Controllers
{
    public class ServiceSubTypesController : Controller
    {
        private ServiceContext db = new ServiceContext();

        // GET: ServiceSubTypes
        [Authorize(Roles = "admin")]
        public ActionResult Index()
        {
            var serviceSubType = db.serviceSubType.Include(s => s.service);
            return View(serviceSubType.ToList());
        }

        // GET: ServiceSubTypes/Details/5
        [Authorize(Roles = "admin")]
        public ActionResult Details(int? id)
        {
            if (id == null)
            {
            }
        }
    }
}
```

# IMPLEMENTATION



## SubServicesTypes Folder:-

### 1. ServiceList.cshtml: Displays services to the user

```
@model IEnumerable<AutomobileServiceStation.Models.Service>

@{
    ViewBag.Title = "ServiceList";
}

<h2>ServiceList</h2>
@*<p>
    @html.actionlink("create new", "create")
</p>*@
@using (Html.BeginForm())
{

    @Html.EditorForModel();
    <input type="submit" class="btn btn-success" />
}
```



# IMPLEMENTATION

## SubServicesTypes Folder:-

**2. SubList.cshtml:** Displays subservices for the choosen services from the database to the user. It calculates the amount and redirects to the payment section.

```
@model IEnumerable<AutomobileServiceStation.Models.ServiceSubType>

@{
    ViewBag.Title = "ServSubType";
}
@using (Html.BeginForm())
{
    <div class="col-md-6">

        @Html.EditorForModel()
        <input type="submit" class="btn btn-primary" value="Calculate" /><br />

        <br /><a href="~/Payment/Payment">Click Here for payment<br />
        Total:</a>
        @ViewBag.tcost
    </div>
}
```



# IMPLEMENTATION

## EditorTemplate Folder:-

1. **Services.cshtml:** Editor for template used to display services from the database to the user.

```
@model AutomobileServiceStation.Models.Service
@{
    ViewBag.Title = "Service";
}

@Html.HiddenFor(x => x.id)
@Html.HiddenFor(x => x.name)

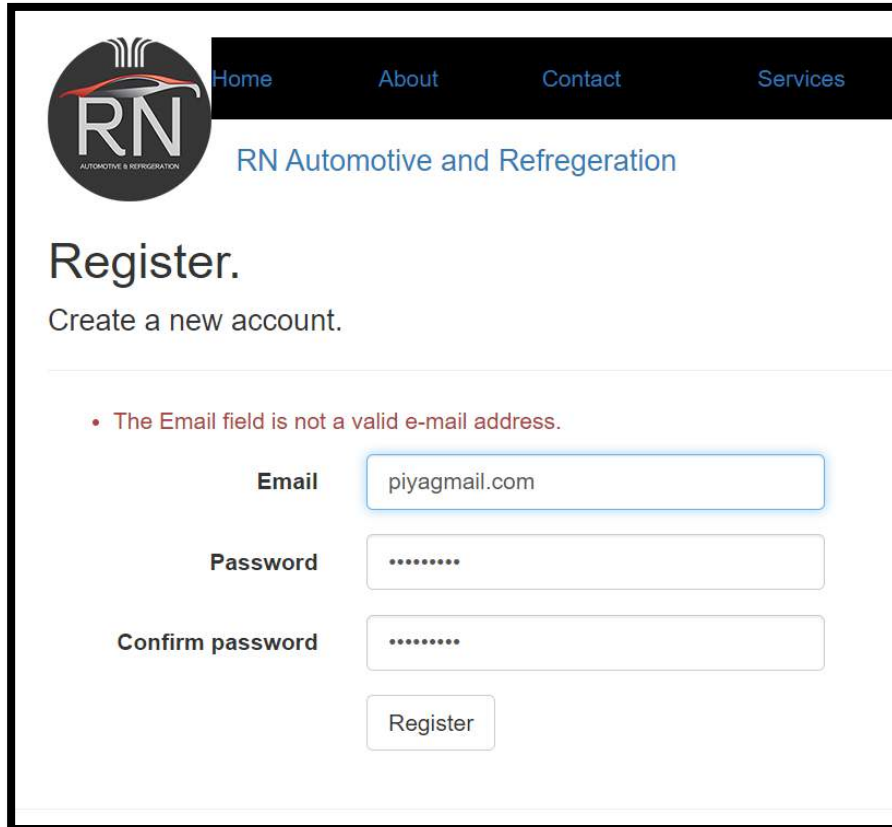
<style>
    #Services {
        font-family: Arial, Helvetica, sans-serif;
        border-collapse: collapse;
        width: 100%;
    }
    #Services td {
        padding: 8px;
    }

    #Services tr:nth-child(even) {
        background-color: #f2f2f2;
    }

    #Services tr:hover {
        background-color: #ddd;
    }
</style>
<table id="Services">
<tr>

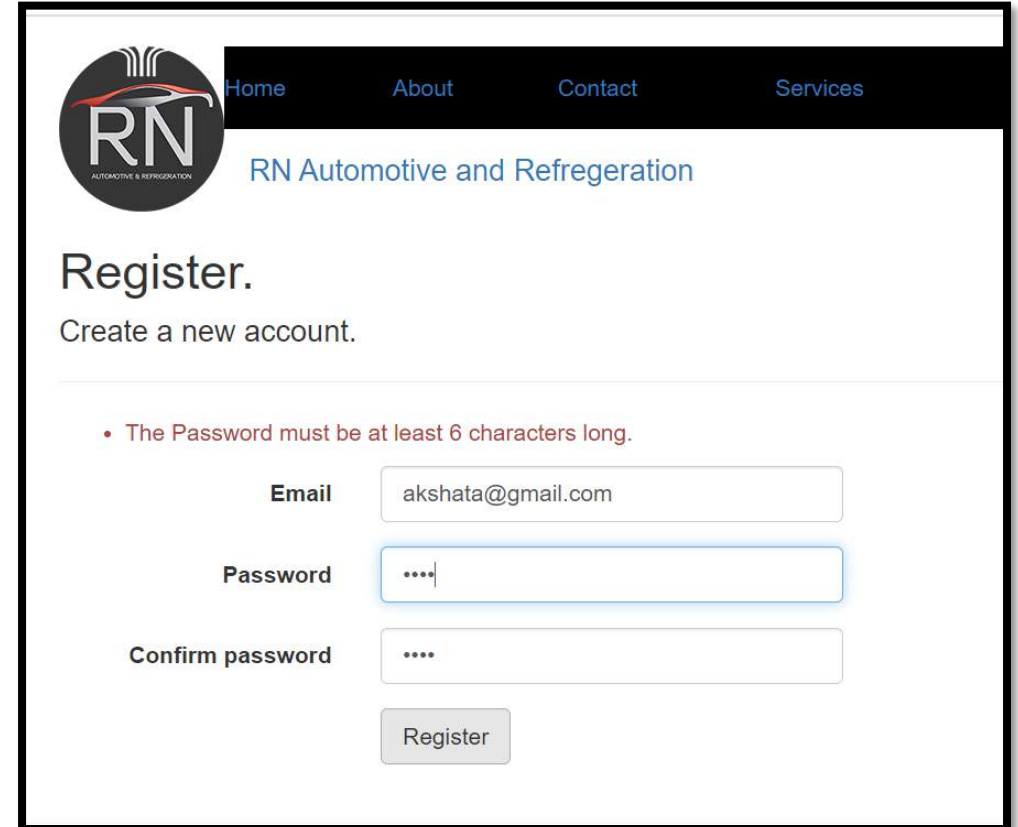
<td>
        @Html.DisplayFor(x => x.name)
        @Html.CheckBoxFor(x => x.check)</td>
..
```

## 1.Register Page:



The screenshot shows the Register page of the RN Automotive and Refrigeration website. The page has a dark blue header with the RN logo and navigation links: Home, About, Contact, and Services. Below the header, the text "RN Automotive and Refrigeration" is displayed. The main heading is "Register." followed by "Create a new account." A red error message states: "The Email field is not a valid e-mail address." The form fields are: Email (containing "piyagmail.com"), Password (masked with dots), and Confirm password (masked with dots). A "Register" button is at the bottom.

This Figure shows the error message when the email is not in correct format.

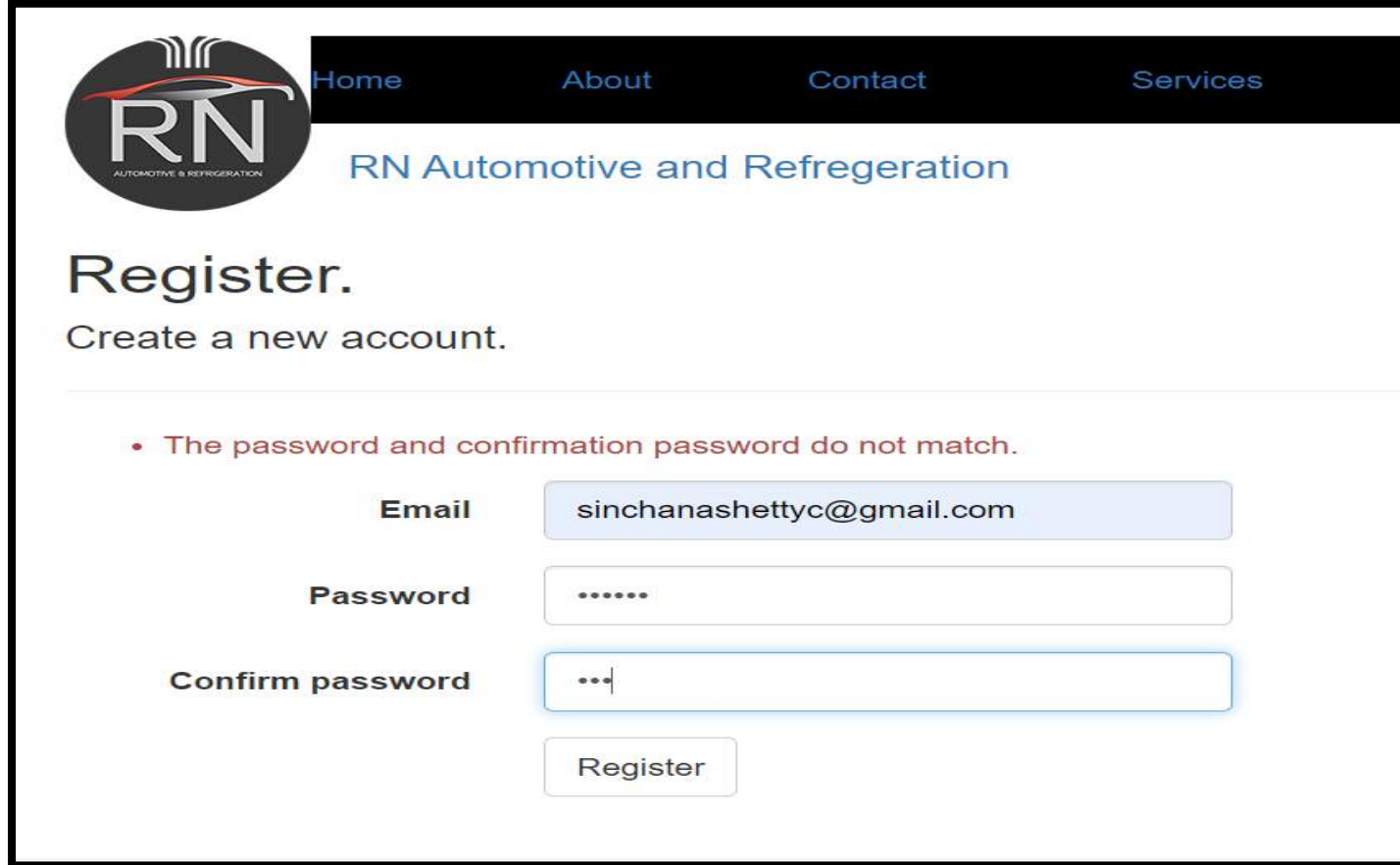


The screenshot shows the Register page of the RN Automotive and Refrigeration website. The page has a dark blue header with the RN logo and navigation links: Home, About, Contact, and Services. Below the header, the text "RN Automotive and Refrigeration" is displayed. The main heading is "Register." followed by "Create a new account." A red error message states: "The Password must be at least 6 characters long." The form fields are: Email (containing "akshata@gmail.com"), Password (containing "...."), and Confirm password (containing "...."). A "Register" button is at the bottom.

This Figure shows the error message when the password entered is less than 8 characters .

# TESTING

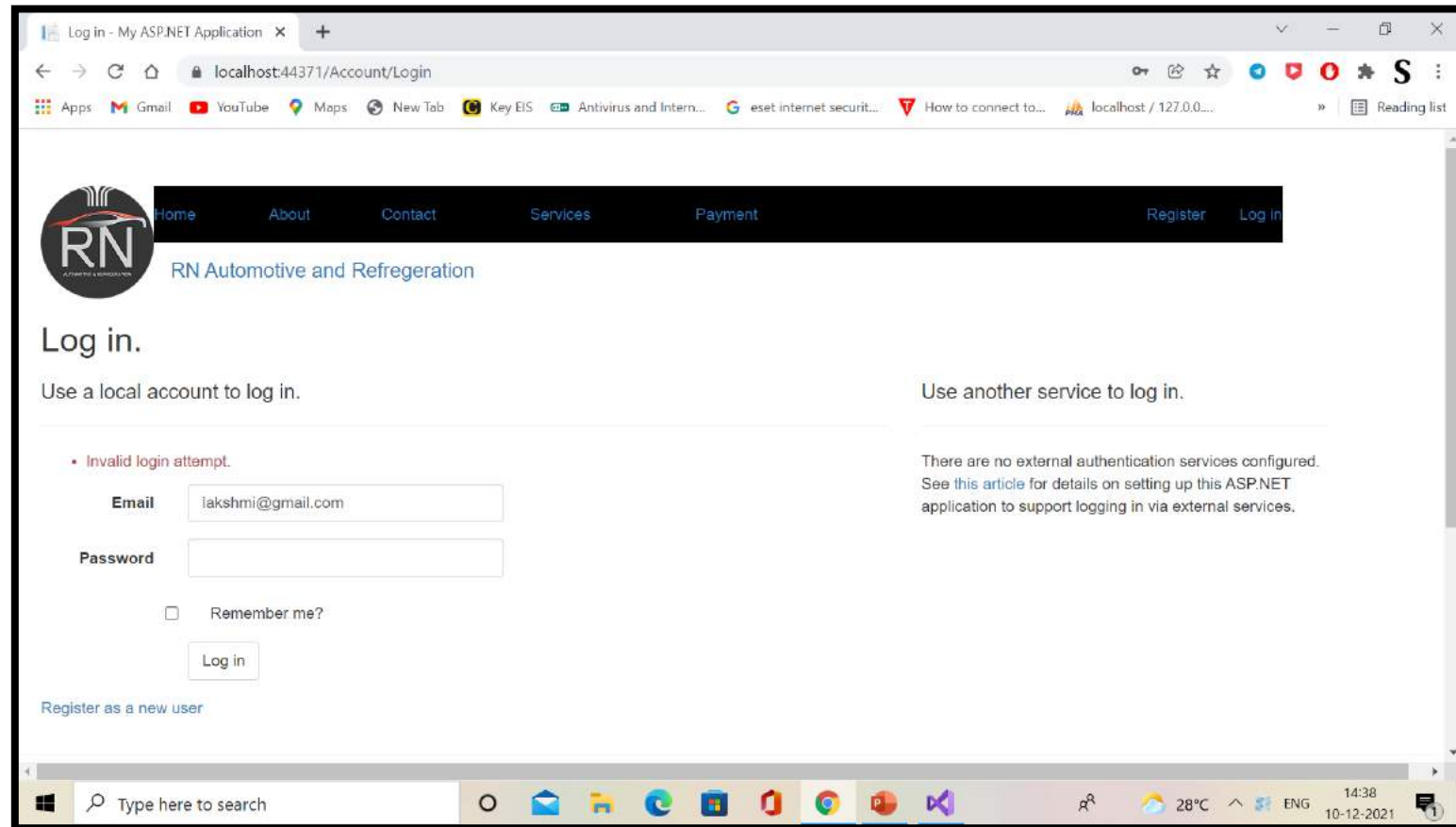
## 1.Register Page:



The screenshot displays the registration page for RN Automotive and Refrigeration. At the top, there is a navigation bar with links for Home, About, Contact, and Services. Below this, the company logo and name are visible. The main heading is "Register. Create a new account." A red error message states: "The password and confirmation password do not match." The form includes three input fields: Email (filled with "sinchanashetty@gmail.com"), Password (filled with "\*\*\*\*\*"), and Confirm password (filled with "\*\*\*"). A "Register" button is located at the bottom of the form.

This Figure shows the error message when the password and confirm password does not match.

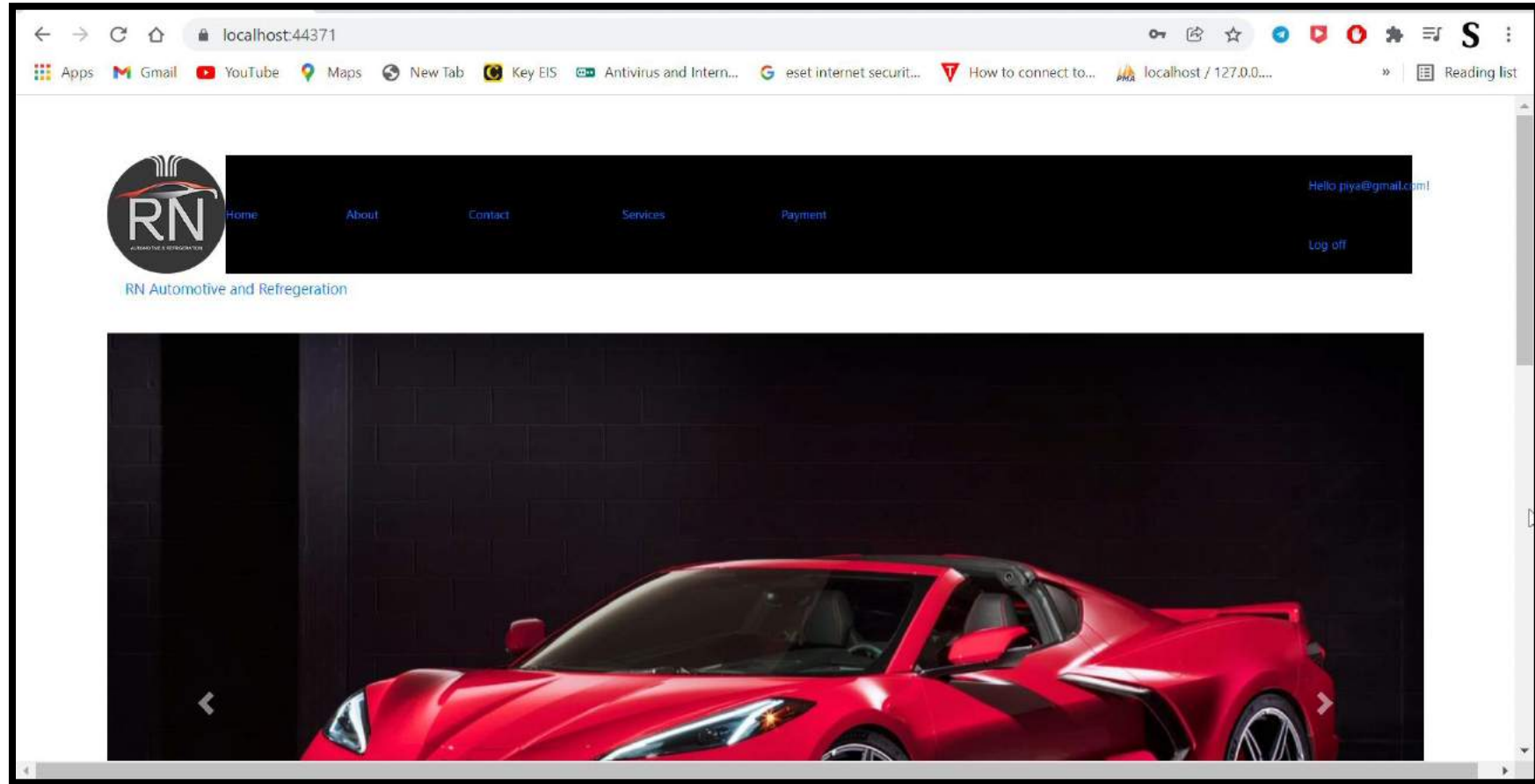
## 2.Login Page:



This Figure shows the error message when the password is incorrect.

# RESULTS

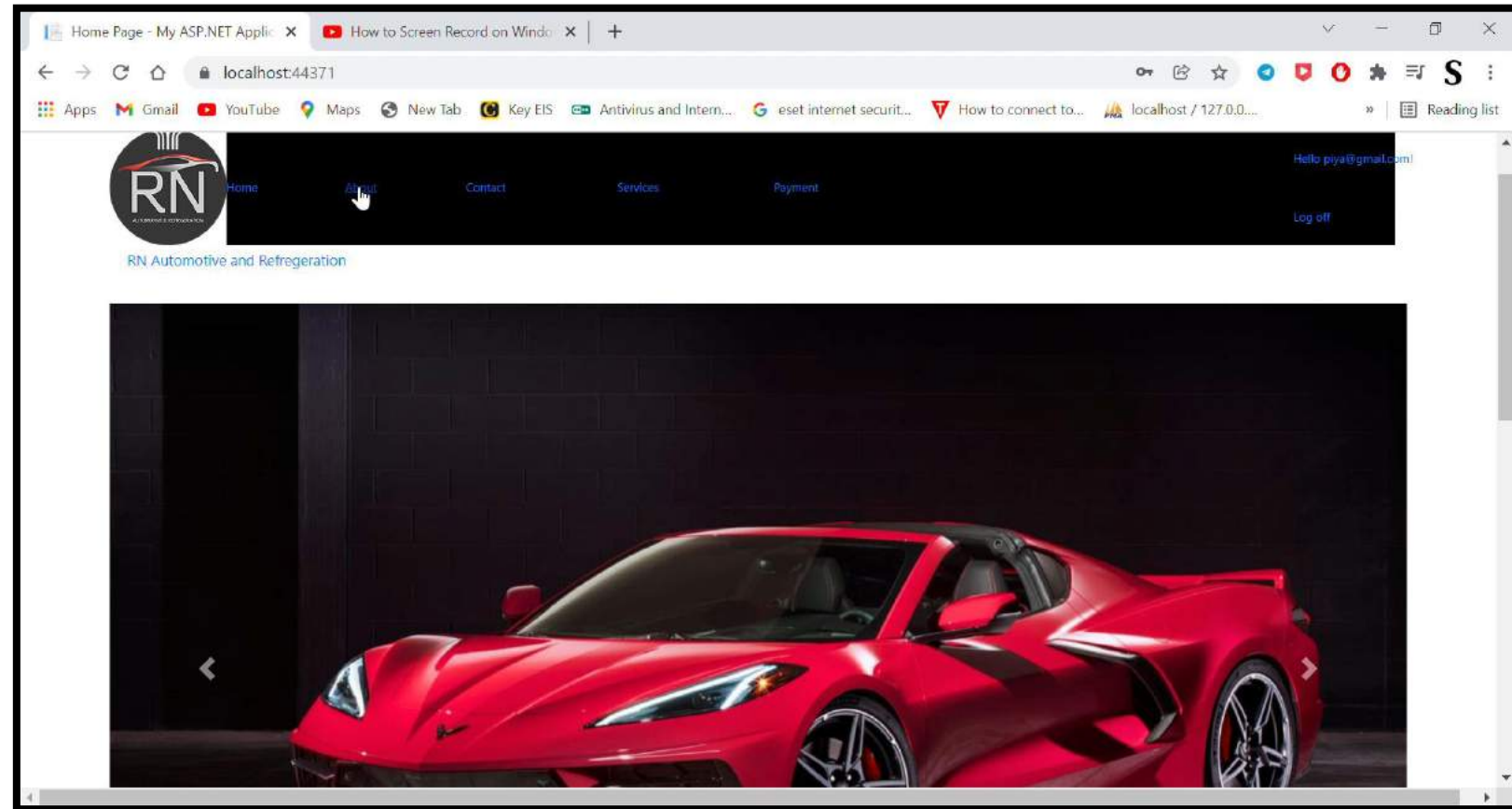
## 1.Home Page:



This Video Clip shows Home page.

# RESULTS

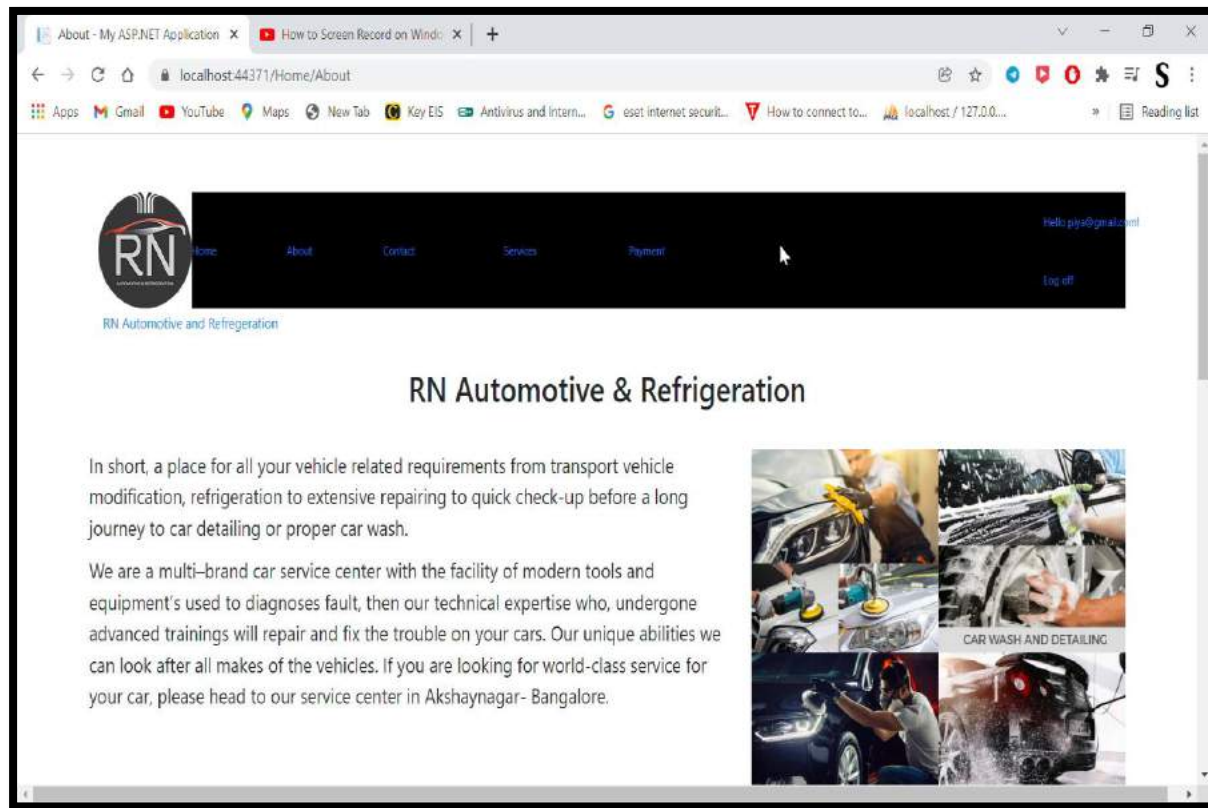
## 2.About Page:



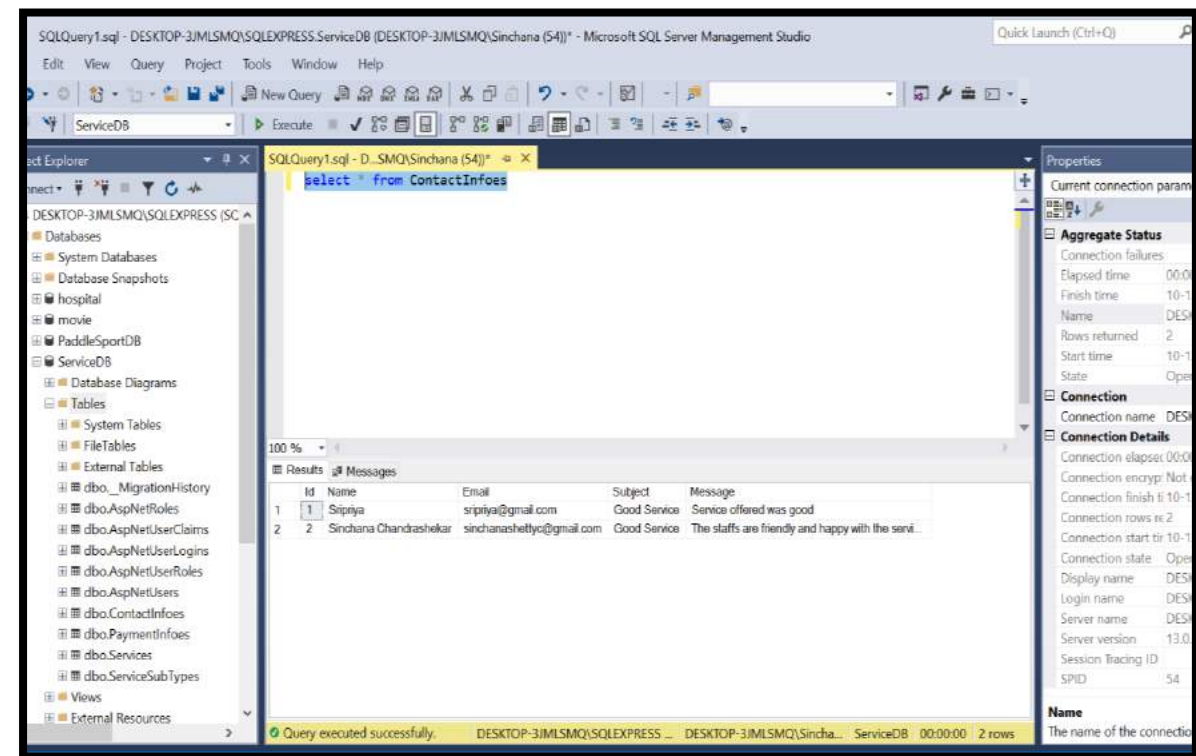
This Video Clip shows About page.



## 3.Contact Page:



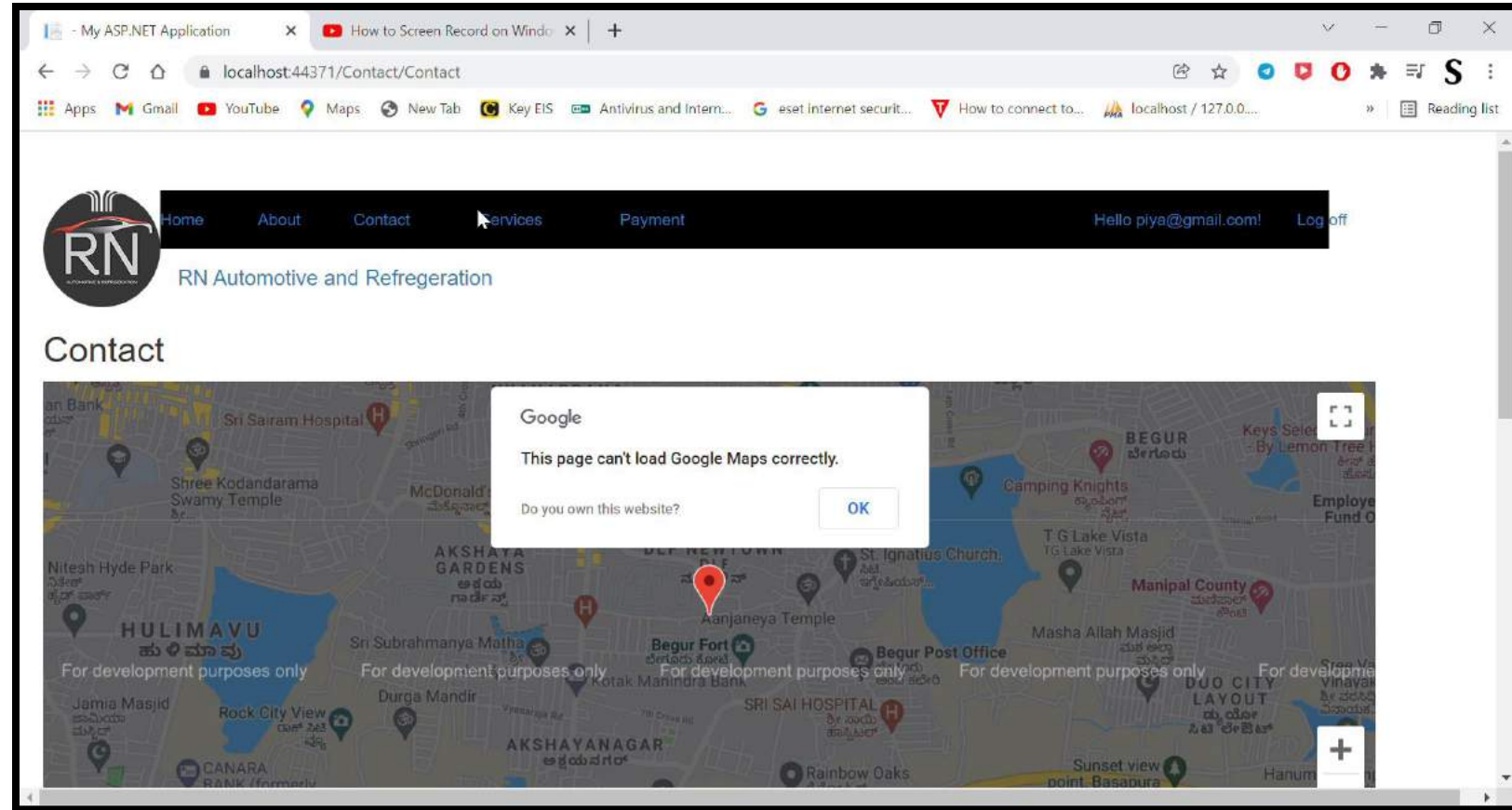
This Video Clip shows Contact page.



This Figure Displays the data stored in contact table

# RESULTS

## 4.Services:

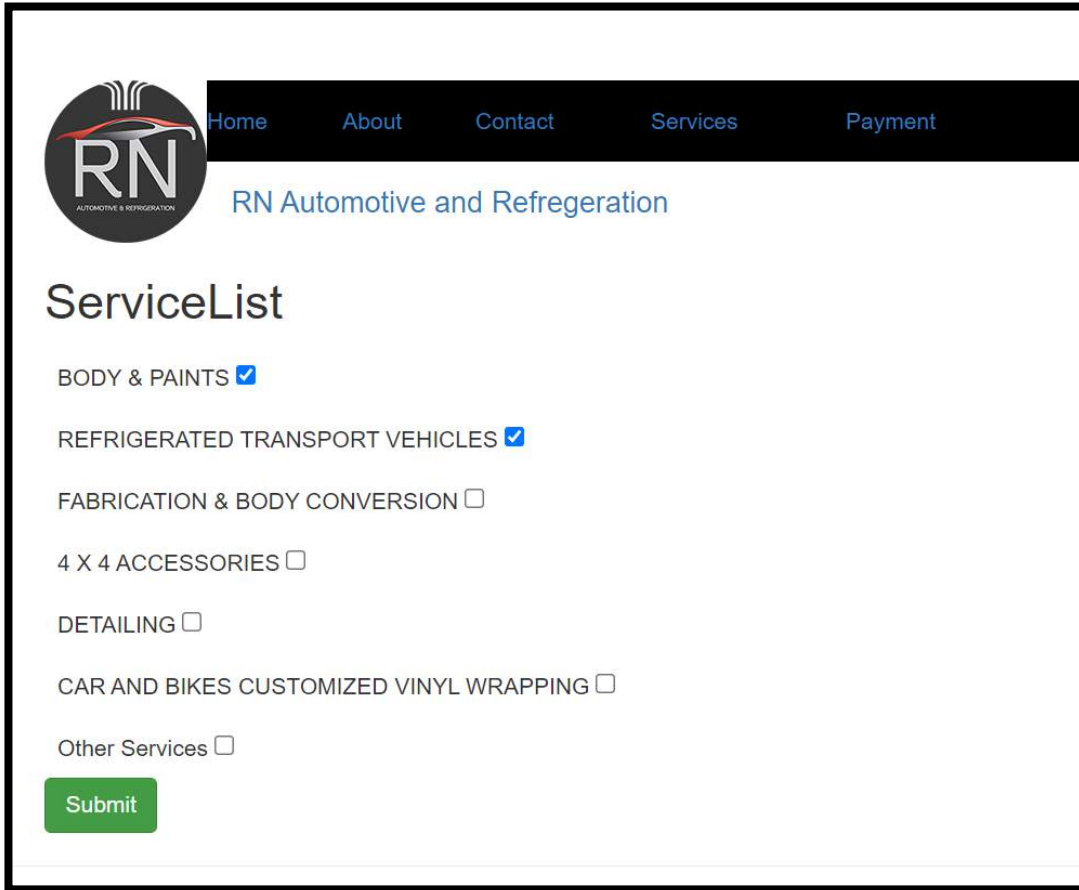


This Video Clip shows Services page.



# RESULTS

## 5.Payment

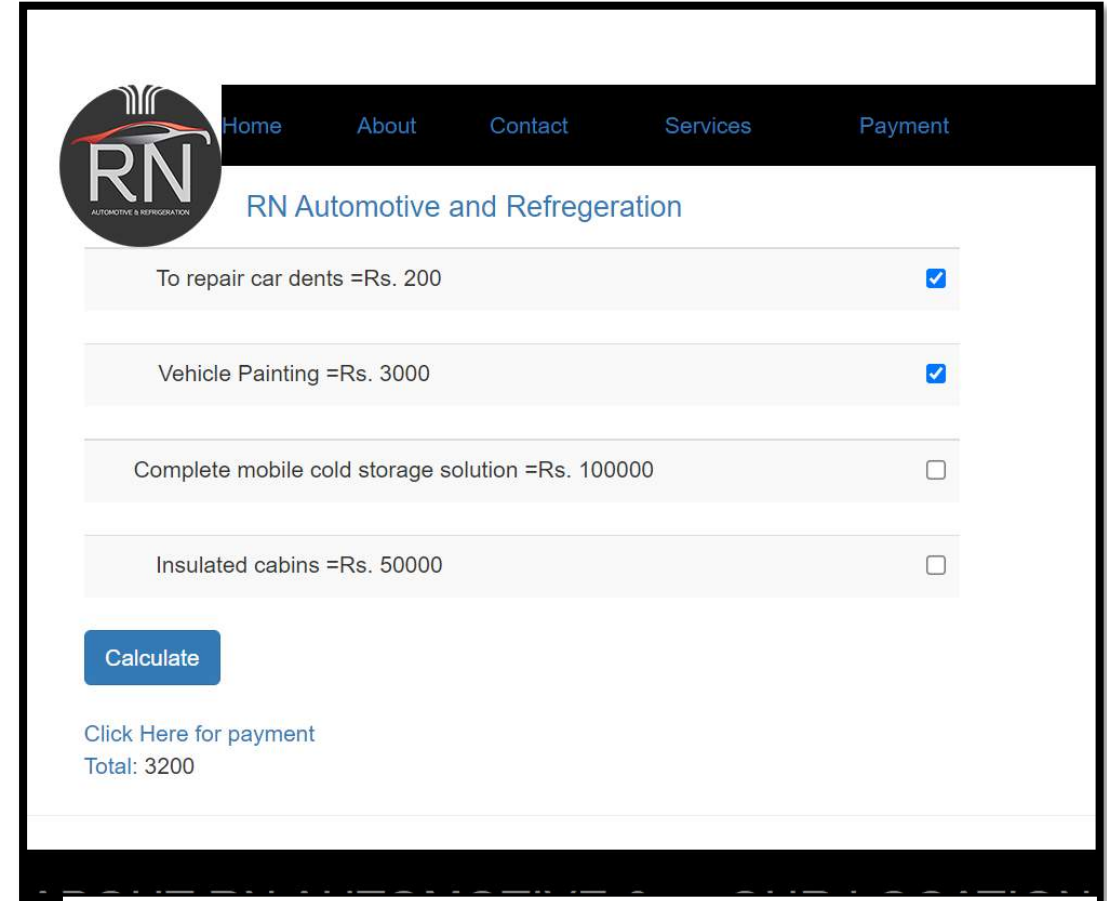


The screenshot shows the website interface for RN Automotive and Refrigeration. The navigation bar includes links for Home, About, Contact, Services, and Payment. The main heading is "ServiceList". Below it, there are several service categories with checkboxes:

- BODY & PAINTS ☒
- REFRIGERATED TRANSPORT VEHICLES ☒
- FABRICATION & BODY CONVERSION ☐
- 4 X 4 ACCESSORIES ☐
- DETAILING ☐
- CAR AND BIKES CUSTOMIZED VINYL WRAPPING ☐
- Other Services ☐

A green "Submit" button is located at the bottom left of the service list.

This Figure shows an option for selecting Services



The screenshot shows the sub-services selection page. The navigation bar is the same as the previous page. The main heading is "RN Automotive and Refrigeration". Below it, there are four sub-services with checkboxes:

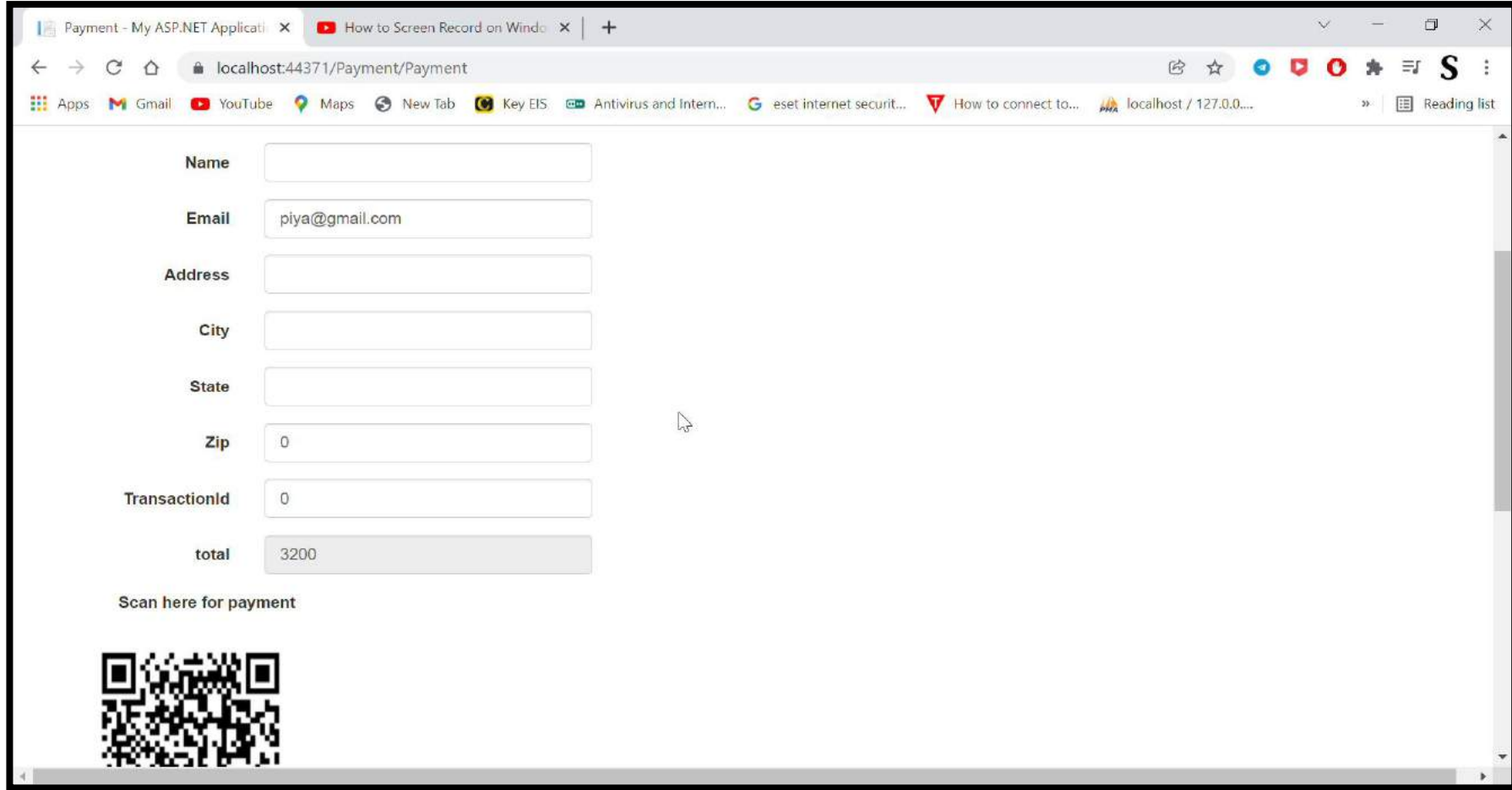
- To repair car dents =Rs. 200 ☒
- Vehicle Painting =Rs. 3000 ☒
- Complete mobile cold storage solution =Rs. 100000 ☐
- Insulated cabins =Rs. 50000 ☐

A blue "Calculate" button is located below the sub-services list. Below the button, there is a link "Click Here for payment" and a total amount "Total: 3200".

This Figure shows an option for selecting Sub-Services for the chosen service

# RESULTS

## 6.Payment



Payment - My ASP.NET Applicati x How to Screen Record on Windo x +

localhost:44371/Payment/Payment

Apps Gmail YouTube Maps New Tab Key EIS Antivirus and Intern... eset internet securit... How to connect to... localhost / 127.0.0... Reading list

Name

Email

Address

City


State

Zip

TransactionId

total 3200

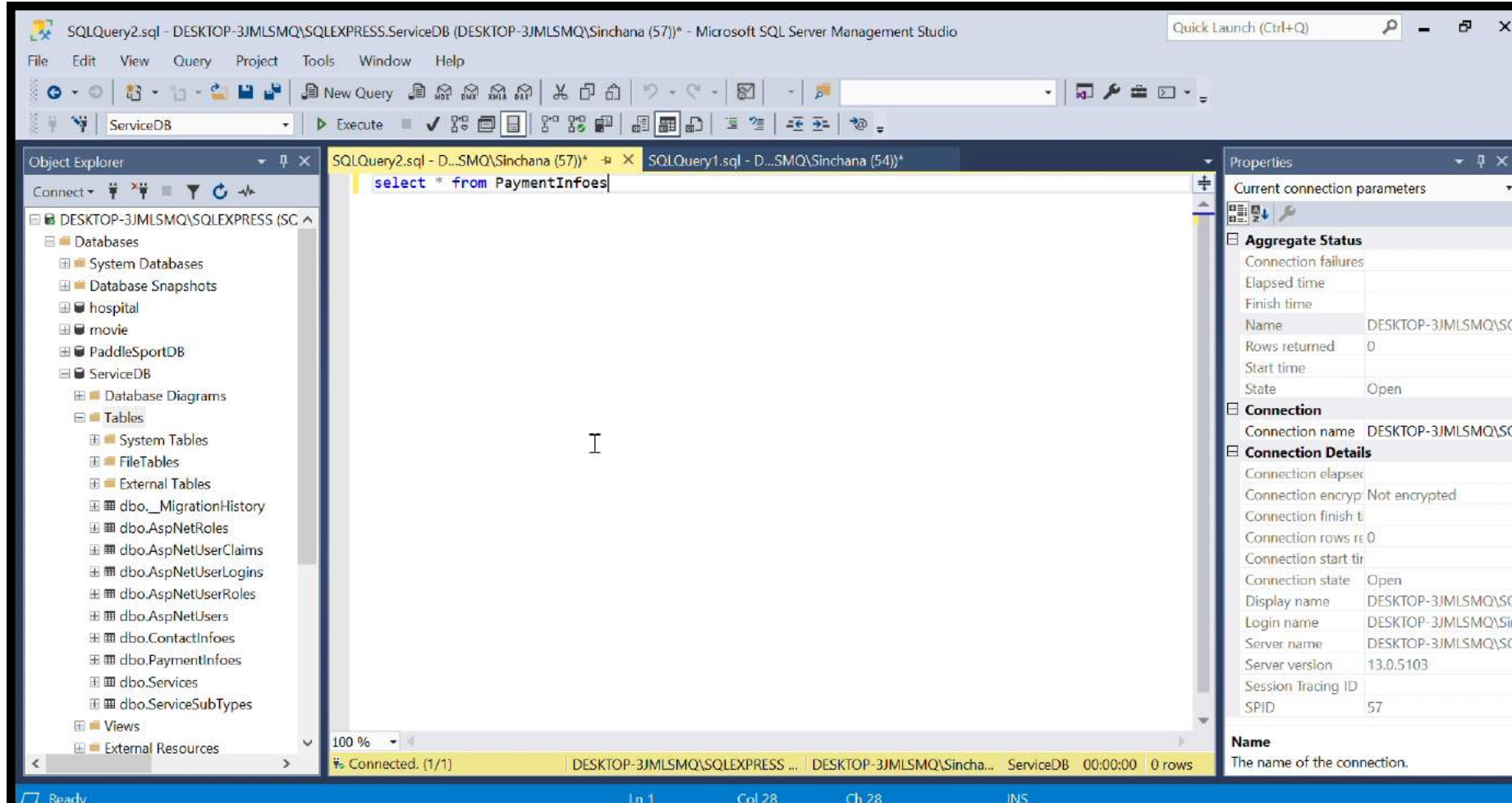
Scan here for payment



This Video Clip shows Payment page.

# RESULTS

## 7.Payment



The screenshot displays the Microsoft SQL Server Management Studio interface. The central query window shows the following SQL query:

```
select * from PaymentInfoes
```

The query has been executed, and the results are displayed in the bottom pane. The status bar indicates "Connected. (1/1)" and "0 rows".

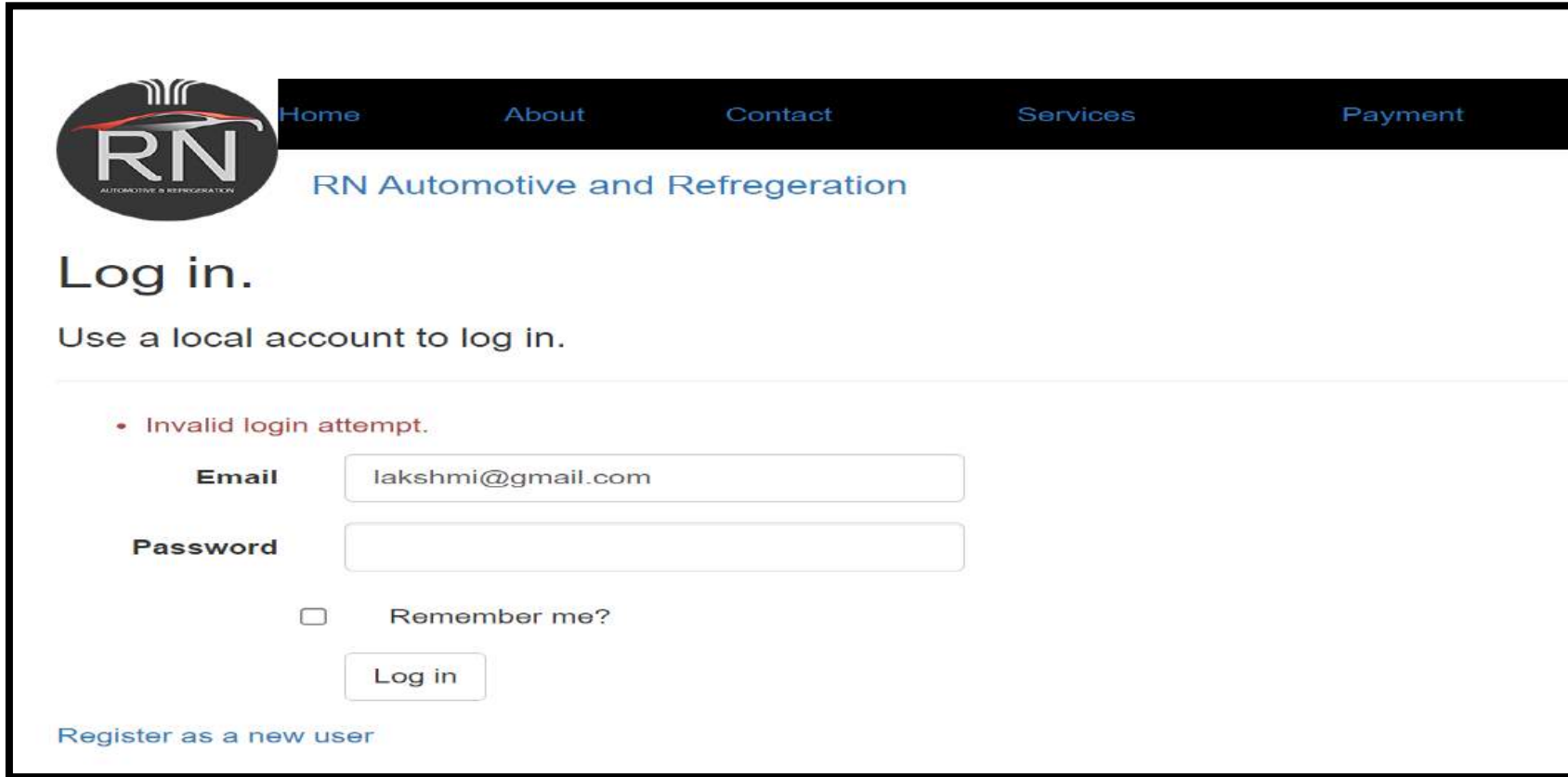
The Object Explorer on the left shows the database structure for "DESKTOP-3JMLSMQ\SQLEXPRESS (SC)". The "Tables" folder is expanded, showing various tables including "dbo.PaymentInfoes".

The Properties window on the right shows the "Current connection parameters" and "Aggregate Status" for the connection. The "Connection" section shows the connection name as "DESKTOP-3JMLSMQ\SQLEXPRESS" and the state as "Open".

This Video Clip shows payment details stored in database .

# RESULTS

## 8.Admin Login Page:

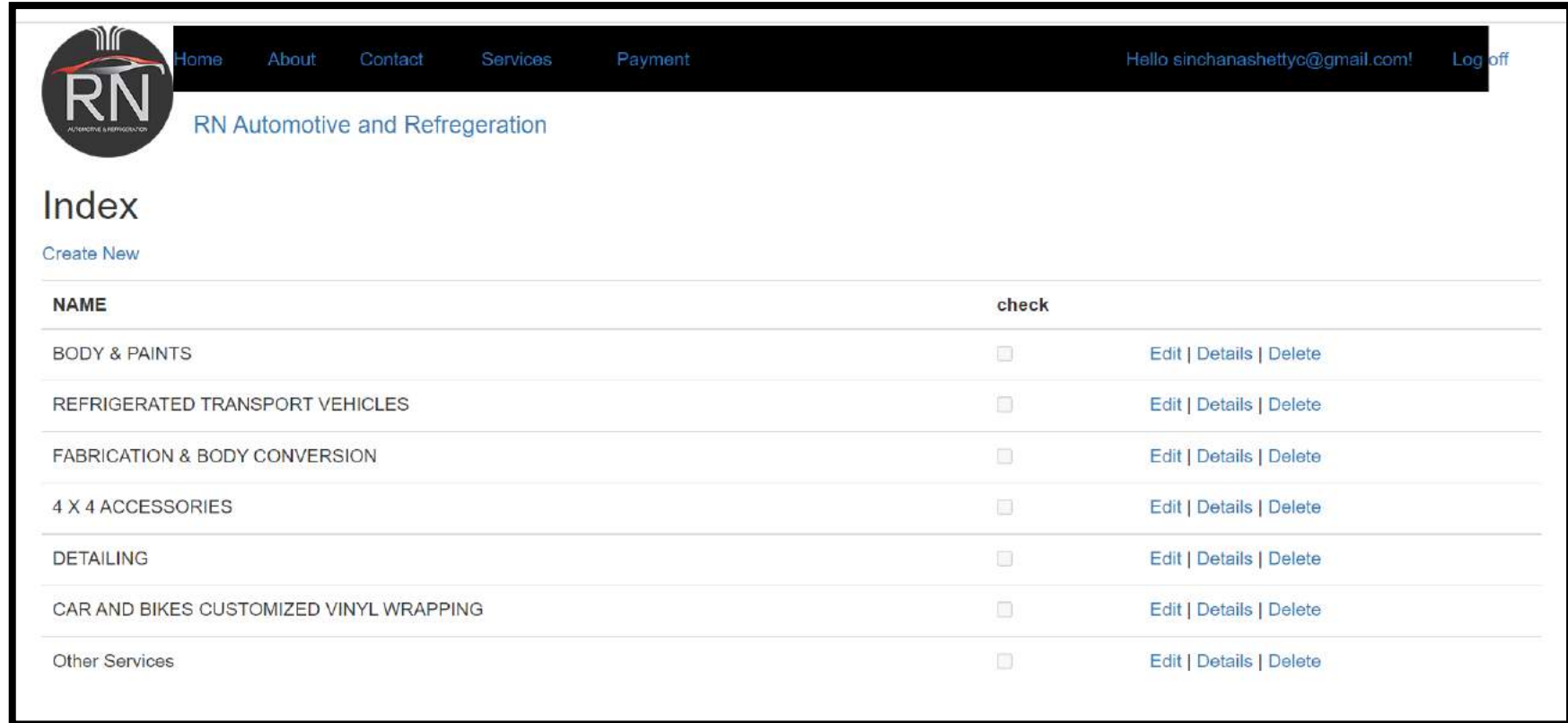


The screenshot displays the admin login interface for RN Automotive and Refrigeration. At the top, a navigation bar includes links for Home, About, Contact, Services, and Payment. The main heading is "Log in." followed by the instruction "Use a local account to log in." Below this, a red error message states "Invalid login attempt." The login form contains fields for Email (filled with "lakshmi@gmail.com") and Password. There is a "Remember me?" checkbox and a "Log in" button. At the bottom, a link "Register as a new user" is provided.

This Figure shows an error message when others tries to login admin page.

# RESULTS

## 9.Admin Service Page:



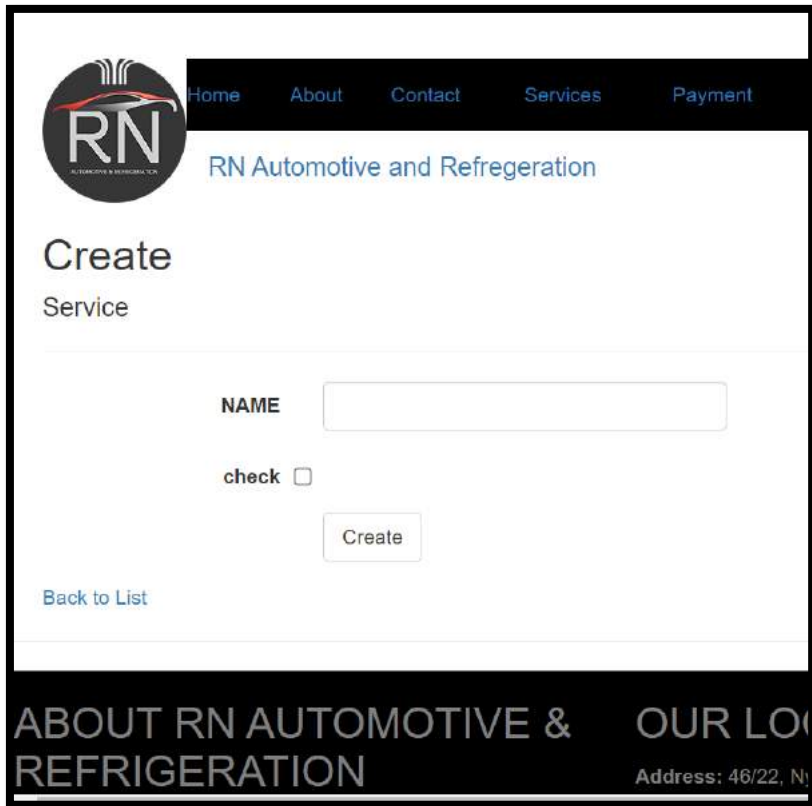
The screenshot shows the Admin Service Index Page for RN Automotive and Refrigeration. The page has a black header with navigation links: Home, About, Contact, Services, and Payment. The user is logged in as 'Hello sinchanashetty@gmail.com!' and can click 'Log off'. The main content area is titled 'Index' and includes a 'Create New' link. Below this is a table with columns 'NAME' and 'check'. The table lists various services with checkboxes and links to 'Edit', 'Details', and 'Delete'.

NAME	check
BODY & PAINTS	<input type="checkbox"/> <a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
REFRIGERATED TRANSPORT VEHICLES	<input type="checkbox"/> <a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
FABRICATION & BODY CONVERSION	<input type="checkbox"/> <a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
4 X 4 ACCESSORIES	<input type="checkbox"/> <a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
DETAILING	<input type="checkbox"/> <a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
CAR AND BIKES CUSTOMIZED VINYL WRAPPING	<input type="checkbox"/> <a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
Other Services	<input type="checkbox"/> <a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

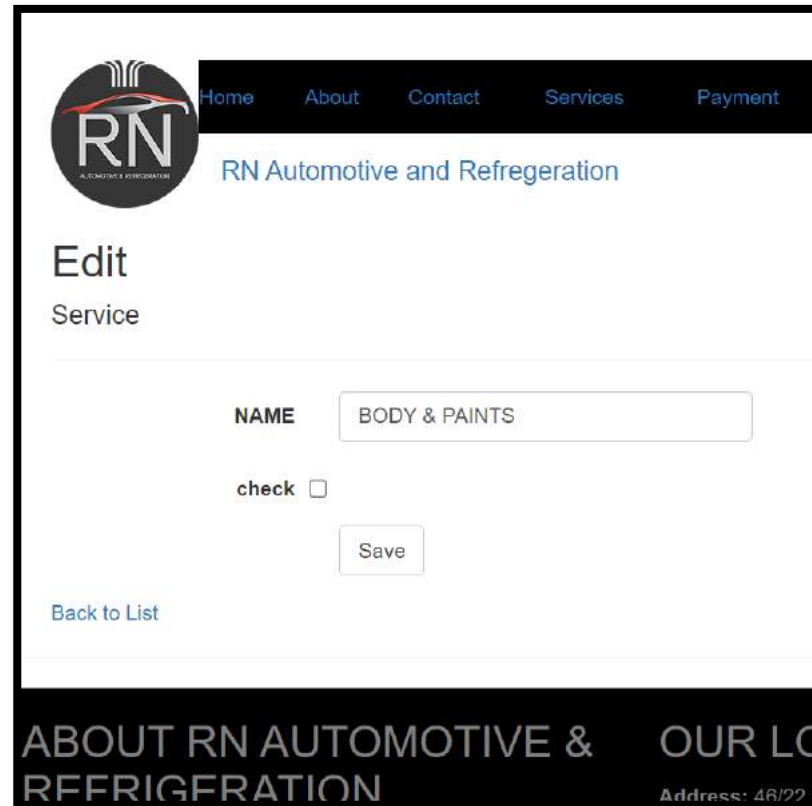
This Figure shows Service Index Page.

# RESULTS

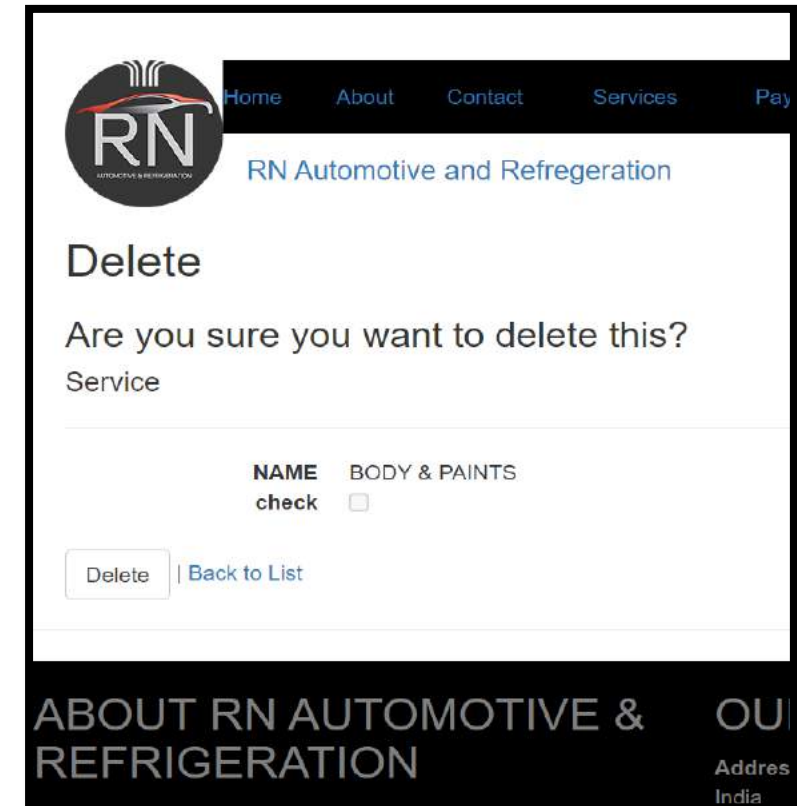
## 10.Admin Service Page:



This Figure shows Service Create Page.



This Figure shows Service Edit Page




This Figure shows Service Delete Page



# RESULTS

## 11.Admin Sub-Services Page:



[Home](#)
[About](#)
[Contact](#)
[Services](#)
[Payment](#)

Hello sinchanashetty@gmail.com!
[Log off](#)

RN Automotive and Refrigeration

Index

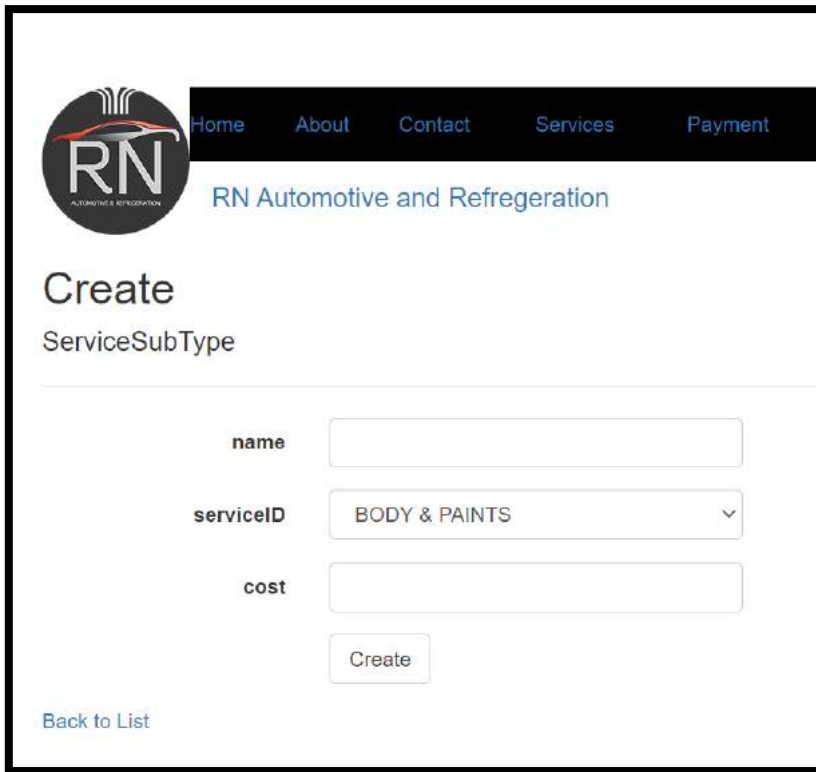
Create New

NAME	name	cost	
BODY & PAINTS	To repair car dents	200	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
BODY & PAINTS	Vehicle Painting	3000	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
REFRIGERATED TRANSPORT VEHICLES	Complete mobile cold storage solution	100000	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
REFRIGERATED TRANSPORT VEHICLES	Insulated cabins	50000	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
4 X 4 ACCESSORIES	Springs	1000	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
4 X 4 ACCESSORIES	Shock absorber (Nitrogen & Foam)	3500	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>
4 X 4 ACCESSORIES	Bull bars	10000	<a href="#">Edit</a>   <a href="#">Details</a>   <a href="#">Delete</a>

This Figure shows Sub-Service Index Page.

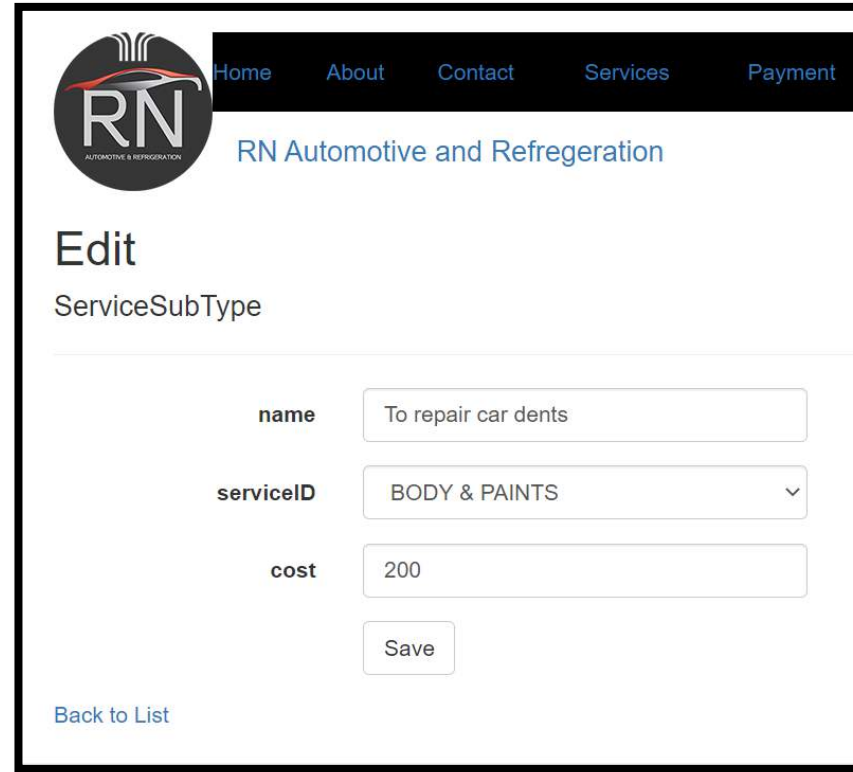
# RESULTS

## 11.Admin Sub-Service Page:



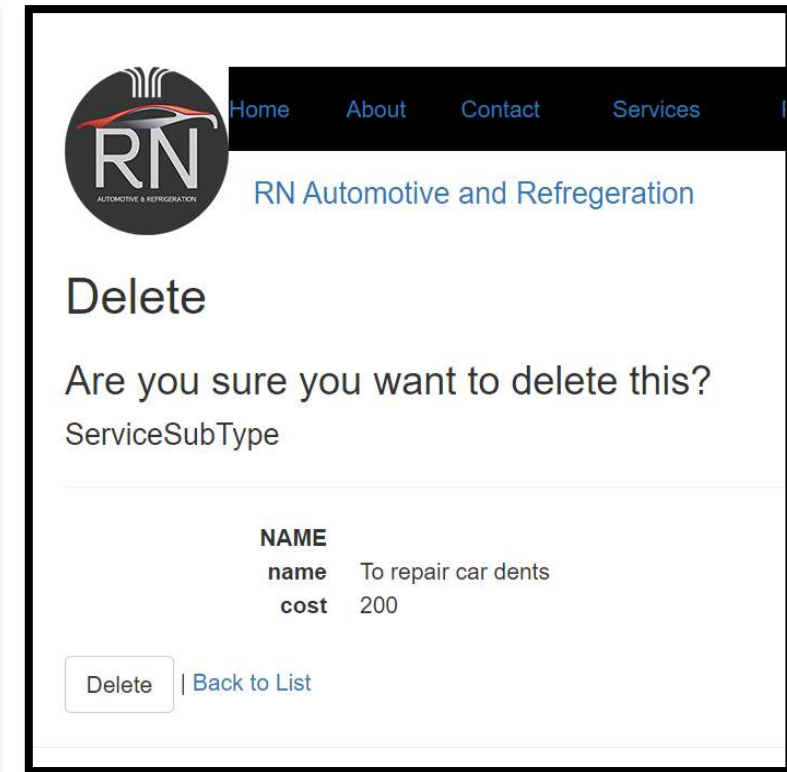
The screenshot shows the 'Create ServiceSubType' page. It features a navigation bar with 'Home', 'About', 'Contact', 'Services', and 'Payment'. The page title is 'RN Automotive and Refregeneration'. Below the title, there is a 'Create ServiceSubType' section with three input fields: 'name', 'serviceID' (a dropdown menu currently showing 'BODY & PAINTS'), and 'cost'. A 'Create' button is located at the bottom right of the form. A 'Back to List' link is at the bottom left.

This Figure shows Sub-Service Create Page.



The screenshot shows the 'Edit ServiceSubType' page. It features a navigation bar with 'Home', 'About', 'Contact', 'Services', and 'Payment'. The page title is 'RN Automotive and Refregeneration'. Below the title, there is an 'Edit ServiceSubType' section with three input fields: 'name' (containing 'To repair car dents'), 'serviceID' (a dropdown menu currently showing 'BODY & PAINTS'), and 'cost' (containing '200'). A 'Save' button is located at the bottom right of the form. A 'Back to List' link is at the bottom left.

This Figure shows Sub-Service Edit Page



The screenshot shows the 'Delete ServiceSubType' page. It features a navigation bar with 'Home', 'About', 'Contact', 'Services', and 'Payment'. The page title is 'RN Automotive and Refregeneration'. Below the title, there is a 'Delete ServiceSubType' section with a confirmation message: 'Are you sure you want to delete this?'. Below the message, there is a table showing the details of the service to be deleted:

NAME	
name	To repair car dents
cost	200

At the bottom, there are two buttons: 'Delete' and 'Back to List'.

This Figure shows Sub-Service Delete Page



# CONCLUSION AND FUTURE ENHANCEMENT



Automobile Service Station is real time application which is currently in use by the end-users to view and get the automobile services offered at service station. This application is used by the administrators of the company as well.

The module can be enhanced to cover below business scenarios

- To integrate the payment gateway to facilitate users for easy payment using Razor pay payment mechanism.
- The history of user services can be included in the module.
- The user testimonial and videos can be included for better marketing strategies,

# REFERENCES

- Microsoft Visual C# Step by Step (Developer Reference Edition)Microsoft of Database Syst7<sup>th</sup> Edition.
- Visual C# Step by Step (Developer Reference Editionbase Systems, Pearson, 7<sup>th</sup> Edition.
- [Learn SQL Tutorial - javatpoint](#)
- [MS SQL Server Tutorial \(tutorialspoint.com\)](#)
- [C# Tutorial - GeeksforGeeks](#)
- [What is .NET Framework? Explain Architecture & Components \(guru99.com\)](#)



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# Question and Answer



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# THANK YOU