A PROJECT REPORT ON

RESAURANT REVIEW SYSTEM

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CERTIFICATE

This is to certify that the practical/term work carried out in the subject of Software Engineering and recorded in the journal is the bonafide work of

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1. Abstract and Introduction:

Abstract:

Restaurants nowadays prefer taking online orders. It not only helps in getting effective customer feedback but also useful for managing orders easily. We are moving towards an automated and digital world. Having a significant online presence is necessary for any restaurant to be successful and prosperous. Getting customer feedback and analyzing them in an effective manner makes the difference.

Information:

Restaurant review management system is designed to take reviews for a particular restaurant. In this app we have implemented functionalitieslike add restaurant, add review forms, view responses.

Technologies/Tools Used:

Platform/Tools used: Visual Studio 2019, Microsoft

SQL Server Management Studio 18

Technology used: ASP.NET framework

Language: C#

2. Software Requirement Specification (SRS):

1. Account Management:

R.1.1: User Account

R.1.1.1: Login for User

Description: Enter credentials for login purpose.

I/p: Email and Password

O/p: Logged In

2. Restaurant Management:

R.2.1: Add Restaurant.

Description: Add restaurants.

I/p: Enter Restaurant.

O/p: Restaurant will be added to the Website.

R.2.2: Edit Restaurant.

Description: Edit restaurants

I/p: Edit Restaurant.

O/p: Restaurant will be Updated

R.2.3: Remove Restaurant

Description: Remove

Restaurant

O/p: Restaurant details will be

Removed.

R.2.4: Restaurant List

Descripation: Show all

Restaurant

O/P: Show all Restaurant

3. Restaurant Review Management:

R.3.1. Add Review

Description: Add Review I/P: Add Review Details

O/P: Review will be added to the Website

R.3.2. Update Review

Description: Update Review I/P: Update Review Details

O/P: Review will be updated to the Website

R.3.3. Remove Review

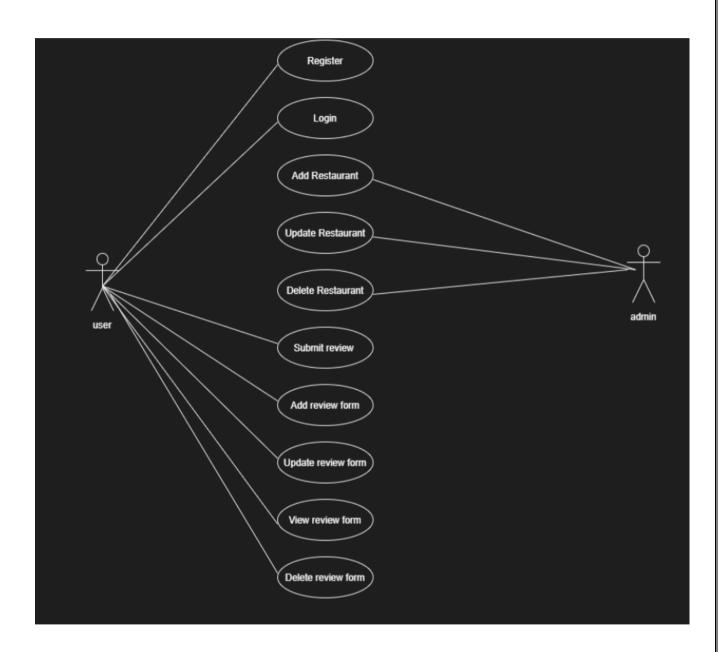
Description: Remove Review O/P: Review will be removed

R.3.4. Review List

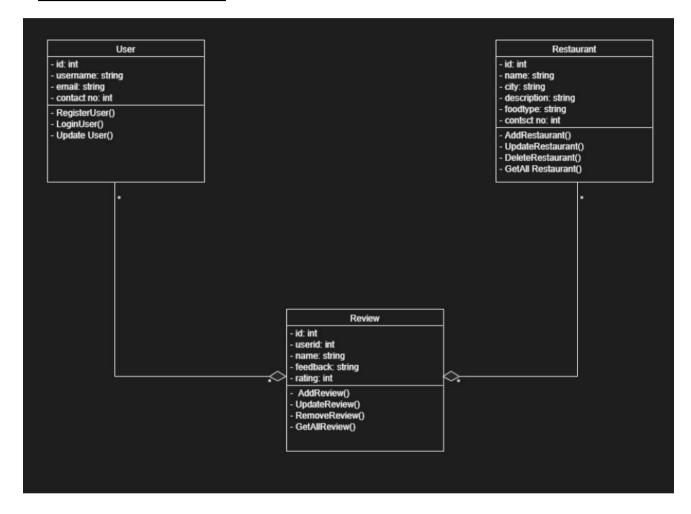
Description: Review List O/P: Show all Review

4. Design Documents:

USE CASE DIAGRAM:



CLASS DIAGRAM:



5. Implementation Details:

Modules:

1. <u>User Module:</u> In this module we have Email address, username, contact no and Password with which person can Login into our application.

Test: In this module the user can login.

Register User:

Login User:

```
oublic int SignInUser(string username, string password)
   SqlConnection con = new SqlConnection();
   con.ConnectionString = connectionString;
   SqlCommand cmd = new SqlCommand();
   cmd.Connection = con;
   cmd.CommandText = "SELECT * FROM Customer WHERE username=@username";
   SqlParameter p = new SqlParameter("@username", username);
   cmd.Parameters.Add(p);
   con.Open();
   SqlDataReader rdr = cmd.ExecuteReader();
   if (rdr.HasRows)
       while (rdr.Read())
           if (password.Equals(rdr["password"]))
               return 1;
               return 2;
       return 3;
   con.Close();
   return 0;
```

Update User:

```
public bool UpdateUser(Customer user)

{
    try
    {
            sqlConnection con = new SqlConnection();
            con.ConnectionString = connectionString;

            SqlCommand cmd = new SqlCommand();
            cmd.Connection = con;

            cmd.Connection = con;

            cmd.CommandText = "UPDATE Customer SET username-@username,email=@email,password-@password,contactno-@contactno WHERE userId-@id";
            SqlParameter = new SqlParameter("@username", user.Username");
            SqlParameter p2 = new SqlParameter("@email", user.Email);
            SqlParameter p3 = new SqlParameter("@email", user.Password);
            SqlParameter p5 = new SqlParameter("@id", user.UserId);

            cmd.Parameters.Add(p1);
            cmd.Parameters.Add(p2);
            cmd.Parameters.Add(p3);
            cmd.Parameters.Add(p3);
            cmd.Parameters.Add(p3);
            cmd.Parameters.Add(p5);

            con.Open();

            con.Close();
            return true;

            }
            catch (Exception e)

            {
                  Console.WriteLine("Exception Occured :" + e.Message);
            return false;
            }
            }
}
```

2. Restaurant Module:

In This Module we have Restaurant details, we can add, edit, remove the Restaurants.

Test: in this admin can manage the restaurant

Add Restaurant:

Update Restaurant:

Remove Restaurant:

```
public bool DeleteRestaurant(int id)
   try
       SqlConnection con = new SqlConnection();
       con.ConnectionString = connectionString;
       SqlCommand cmd = new SqlCommand();
       cmd.Connection = con;
       cmd.CommandText = "DELETE FROM Restaurant WHERE restaurantId = @id";
       SqlParameter p1 = new SqlParameter("@id", id);
       cmd.Parameters.Add(p1);
       con.Open();
        cmd.ExecuteNonQuery();
       con.Close();
       return true;
   catch (Exception e)
       Console.WriteLine("Exception Occured :" + e.Message);
       return false;
```

RestaurantList:

```
public DataSet GetAllRestaurants()
{
    SqlDataAdapter da = new SqlDataAdapter("SELECT * FROM Restaurant", connectionString);
    DataSet ds = new DataSet();
    da.Fill(ds, "Restaurant");
    return ds;
}
```

3. Review Module:

In This Module we have Reviews, we can add, edit, remove the Review.

Test: in this user can give Review

Add Review:

```
SqlConnection con = new SqlConnection();
con.ConnectionString = connectionString;
SqlCommand cmd = new SqlCommand();
cmd.Connection = con;
cmd.CommandText = "INSERT INTO Review (userId, name, feedback, rating) VALUES (@userId, @name, @feedback, @rating)";
SqlParameter p1 = new SqlParameter("@userId", review.UserId);
SqlParameter p2 = new SqlParameter("@name", review.Name);
SqlParameter p3 = new SqlParameter("@feedback", review.Feedback);
SqlParameter p4 = new SqlParameter("@rating", review.Rating);
cmd.Parameters.Add(p1);
cmd.Parameters.Add(p2);
cmd.Parameters.Add(p3);
cmd.Parameters.Add(p4);
con.Open();
cmd.ExecuteNonQuery();
con.Close();
Console.WriteLine("Exception Occured :" + e.Message);
```

Update Review:

```
public bool UpdateReview(Review review)
         SqlConnection con = new SqlConnection();
         con.ConnectionString = connectionString;
         SqlCommand cmd = new SqlCommand();
         cmd.Connection = con;
         cmd.CommandText = "UPDATE Review SET userId=@userId,name=@name,feedback=@feedback,rating=@rating WHERE Id=@id";
        SqlParameter p1 = new SqlParameter("@name", review.Name);
SqlParameter p2 = new SqlParameter("@feedback", review.Feedback);
SqlParameter p3 = new SqlParameter("@rating", review.Rating);
SqlParameter p4 = new SqlParameter("@id", review.Id);
         SqlParameter p5 = new SqlParameter("@userId", review.UserId);
         cmd.Parameters.Add(p1);
         cmd.Parameters.Add(p2);
         cmd.Parameters.Add(p3);
         cmd.Parameters.Add(p4);
         cmd.Parameters.Add(p5);
         con.Open();
         cmd.ExecuteNonQuery();
         con.Close();
    catch (Exception e)
         Console.WriteLine("Exception Occured :" + e.Message);
         return false:
```

Remove Review:

```
public bool DeleteReview(int id)
{
    try
    {
            SqlConnection con = new SqlConnection();
            con.ConnectionString = connectionString;

            SqlCommand cmd = new SqlCommand();
            cmd.Connection = con;

            cmd.CommandText = "DELETE FROM Review WHERE Id=@id";
            SqlParameter p1 = new SqlParameter("@id", id);

            cmd.Parameters.Add(p1);

            con.Open();

            cmd.ExecuteNonQuery();

            con.Close();
            return true;
        }

        catch (Exception e)
        {
             Console.WriteLine("Exception Occured :" + e.Message);
            return false;
        }
}
```

List Review:

```
public Dataset GetAllReviews()
{
    sqlconnection con = new Sqlconnection();
    con.ConnectionString = connectionString;
    sqlcommand cmd = new Sqlcommand();
    cmd.Connection = con;

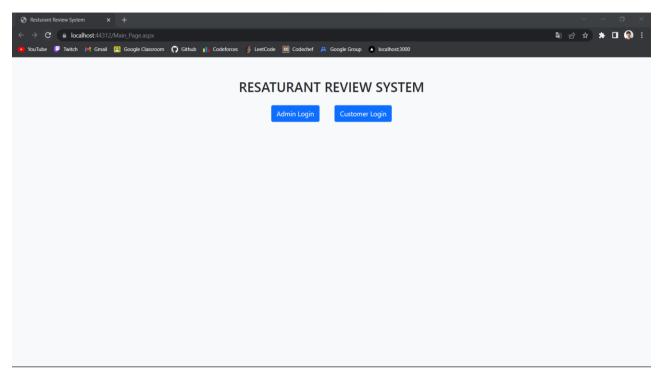
    cmd.CommandText = "SELECT Review.id,Customer.username,Customer.email,Review.name,Review.feedback,Review.rating From Review INNER JOIN Customer ON Review.userId = Customer.userId";
    con.Open();
    sqlDataAdapter da = new SqlDataAdapter(cmd);
    bataset ds = new Dataset();
    da.Fill(ds);
    con.Close();
    return ds;
}
```

6. Testing:

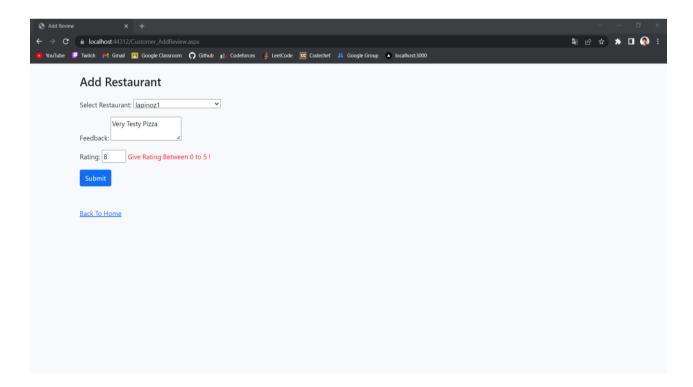
Testing Method: Using Manual Testing

Testing CRUD operations	Input	Output
Login	Email and	You are successfully
	Password	logged in and new form is opened
Add	Add	Restaurant
Restaurant	Restauration	Will Be
	Details	Added
Add	Give a Review	Review is
Review	Details	added in
		database.

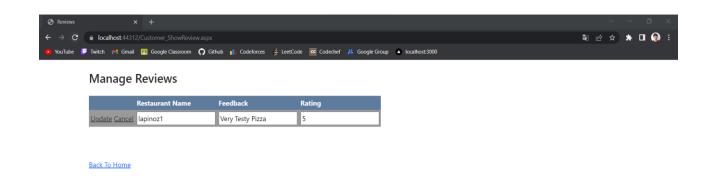
Screenshot



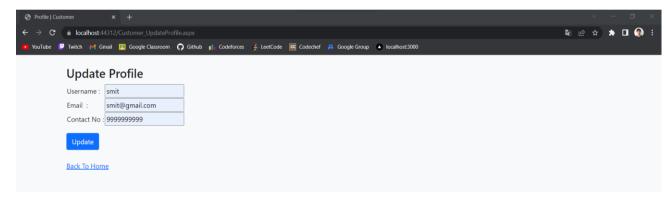
Login Page



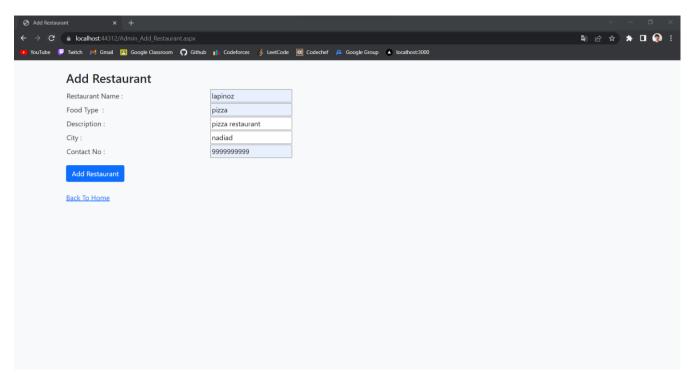
Add Review



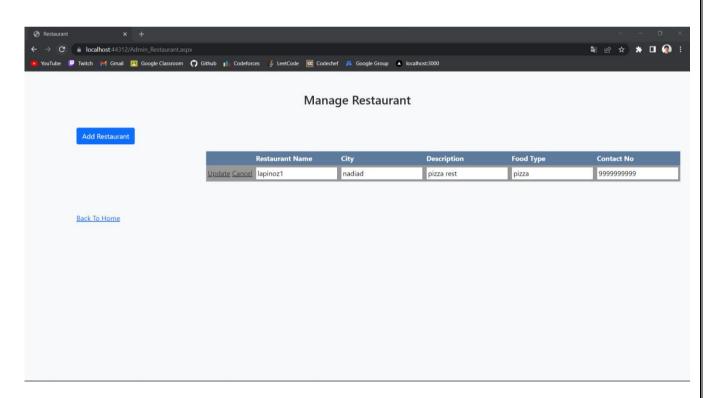
Edit Review



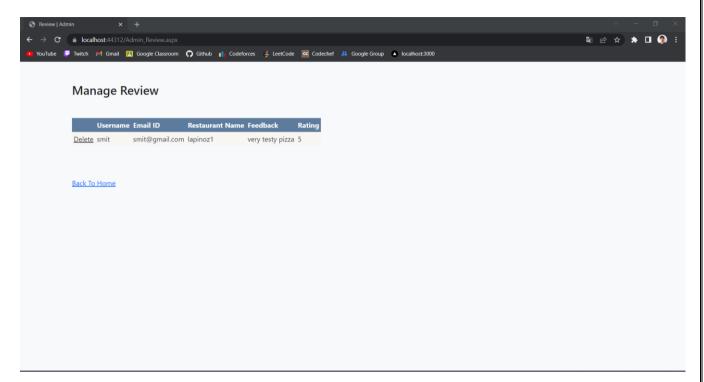
Update Profile



Add Restaurant



Edit Restaurant



Review List

7. Screenshots:

```
namespace RestaurantReviewSystem.Model
{
    [DataContract]
    4 references
    public class Customer
    {
        [DataMember(IsRequired =false)]
        1 reference
        public int UserId { get; set; }

        [DataMember]
        2 references
        public string Username { get; set; }

        [DataMember]
        2 references
        public string Password { get; set; }

        [DataMember]
        2 references
        public string ContactNo { get; set; }

        [DataMember]
        2 references
        public string Email { get; set; }

}
```

Customer.cs

```
[namespace RestaurantReviewSystem.Mode]
{
    [DataContract]
    4 references
    public class Restaurant
    {
        [DataMember(IsRequired = false)]
        1 reference
        public int RestaurantId { get; set; }

        [DataMember]
        2 references
        public string Name { get; set; }

        [DataMember]
        2 references
        public string City { get; set; }

        [DataMember]
        2 references
        public string Description { get; set; }

        [DataMember]
        2 references
        public string FoodType { get; set; }

        [DataMember]
        2 references
        public string FoodType { get; set; }

        [DataMember]
        2 references
        public string ContactNo { get; set; }
}
```

Restaurant.cs

```
namespace RestaurantReviewSystem.Model
{
    4 references
    public class Review
    {
        [DataMember(IsRequired = false)]
        1 reference
        public int Id { get; set; }

        [DataMember(IsRequired = false)]
        2 references
        public int UserId { get; set; }

        [DataMember(IsRequired = false)]
        2 references
        public string Name { get; set; }

        [DataMember]
        2 references
        public string Feedback { get; set; }

        [DataMember]
        2 references
        public int Rating { get; set; }
}
```

Review.cs

Hos

8. Conclusion:

In this project we have successfully implemented 8 major functionality which are

- Add Restaurant.
- Update Restaurant.
- Delete Restaurant.
- Restaurant list
- Add review.
- View review.
- Delete review

After the implementation and coding of system, testing was performed on the system to determine the errors and possible flaws in the system.

9. Limitation and Future Enhancements:

We have implemented basic functionalities as mentioned above.

In future we will try to add more functionality like reviews for different field like ambience ,food quality ,service etc.

10.Bibliography:

Following links and websites were referred during the development of this project:

- https://stackoverflow.com/
- https://docs.microsoft.com/en-us/aspnet/core/?view=aspnetcore-6.0
- https://youtube.com/

Project Git Repository:

https://github.com/sb011/WCF_Restaurant_Re

view_System.git