

Here is Riyadh Project



her is *Riyadh!*

web- based application (MIS 366)
Academic Year 2020-2021

NAME

ID

INSTRUCTOR:

SECTION: 38983

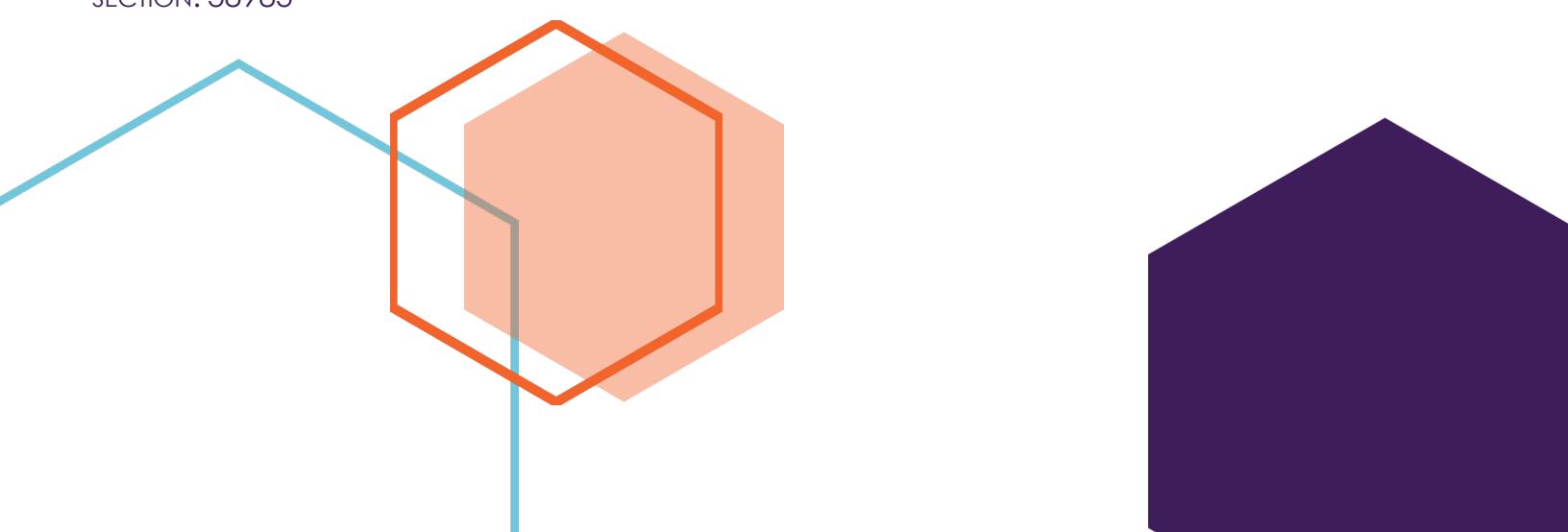


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Chapter 1: Introduction

We are a MIS student who seek for new opportunities and new experiences. Try on this website to introduce the Riyadh kingdom of Saudi Arabia in a meaningful way. Seeking to make our visitor experience full of fun, taught, and great memories.

Our website type:

Travel, Entertainment, Tourists.

Overview of problem domain:

We have noticed that Riyadh doesn't have a clear identification of tourism's places. So, we decide to guide our visitors through a useful and helpful website that combines all visitors need to see important places in Riyadh easily.

Project aim and objectives:

1. Make search specific and efficient.
2. Support local business.
3. Gather all places in Riyadh with more than one category.
4. Match language difficulties and make it easier.

Project management plan

Breakdown structure

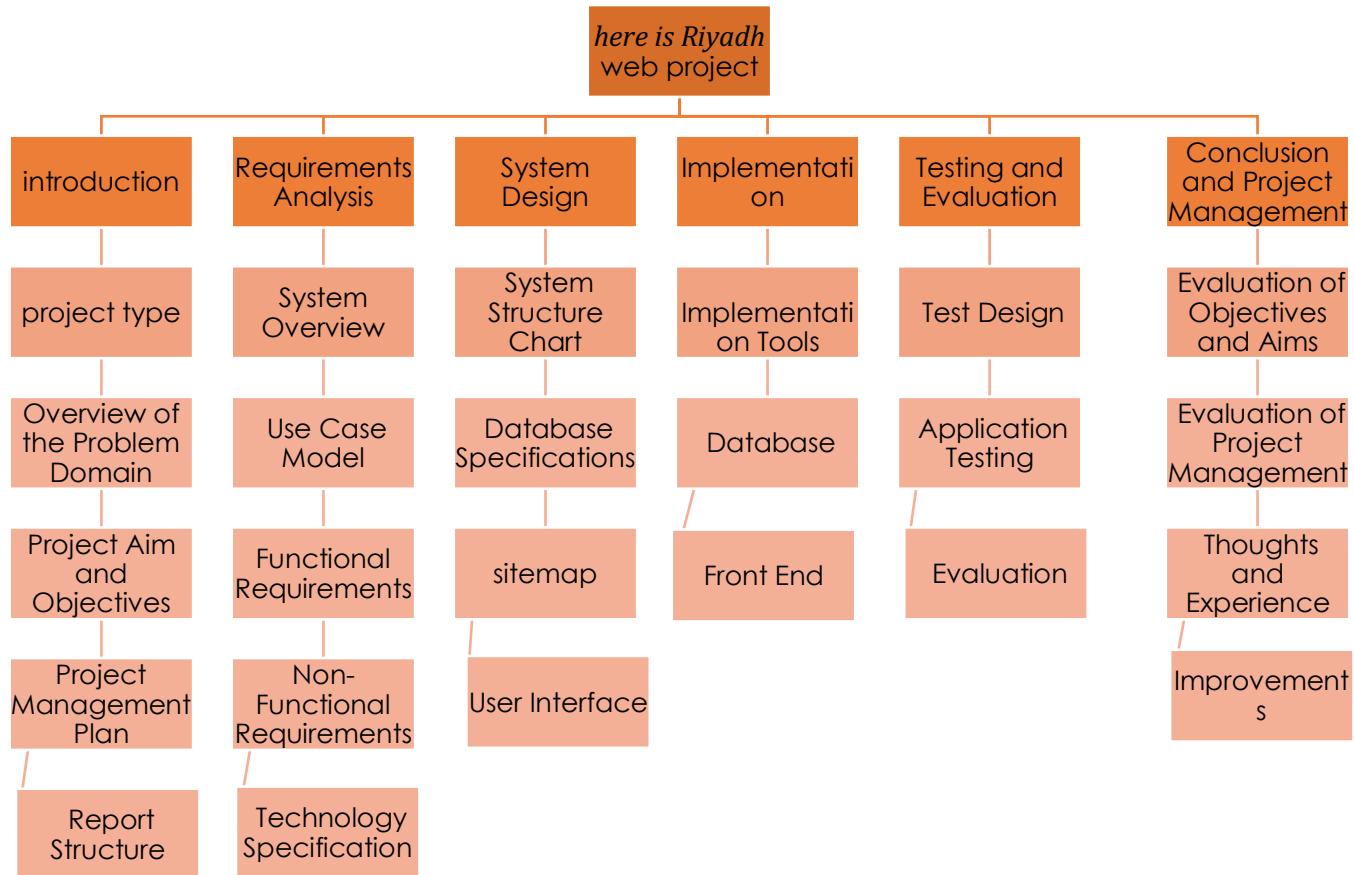


Figure 1. Work Breakdown structure

2. Activity and task list

Task	Duration	Start	Finish
introduction	1 Day	21/3/2021	22/3/2021
Requirements Analysis	1 Day	23/3/2021	24/3/2021
System Design	4 Days	24/3/2021	28/3/2021
implementation	17 Days	24/3/2021	9/4/2021
Testing and Evaluation	2 Day	7/4/2021	9/4/2021
Conclusion and Project Management	1 Day	8/4/2021	9/4/2021

Figure 2. Activity and task list

3. Gantt chart

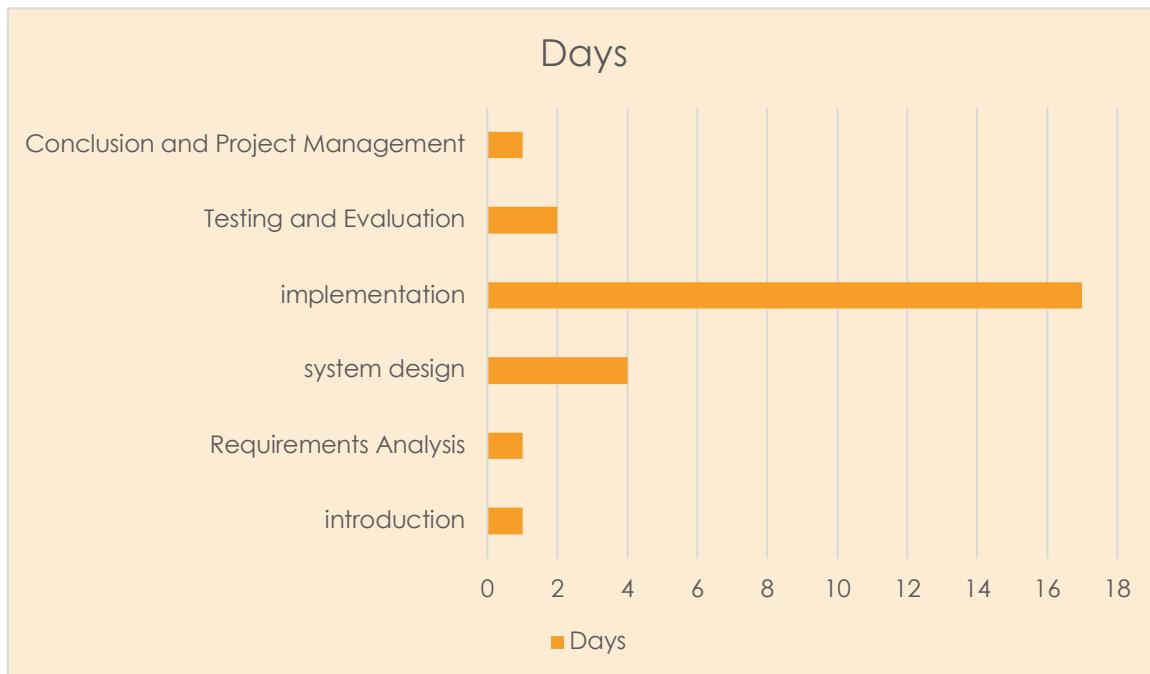


Figure 3. Gantt chart

Report structure

This Report contains 6 chapters:

1. Chapter 1: This chapter provides an overview of the company and its problem statement, while also covering the opportunities.

2. Chapter 2: This chapter covers the documentation related to the system requirements such as: the use case model, requirements, and specifications.
3. Chapter 3: This chapter covers the system design it contains the structure chart, Database, sitemap, and user interface.
4. Chapter 4: This chapter covers the implementation of the tools, Database, and front end.
5. Chapter 5: This chapter covers testing and evaluation of the system, to ensure it is working effectively.
6. Chapter 6: This chapter covers the evaluation of (objectives, aims, project management, thoughts, and experience) and improvements of the system.

CHAPTER2: Requirements Analysis

System overview:

"Here is Riyadh" Is a website that provides users/customers with all the information that he or she need it In Riyadh. Moreover, Souvenirs will be sold on our site in memory of their trip to Riyadh. Our system Is placed between two actors, the customer (user) and the admin (developer). The system will offer the admin the ability to add or edit the information/product to be viewed/sold online, view customer accounts, and view customers' orders. On the other hand, customers will be able to sign In or register to their account and view information/products and filter them and purchase products needed. In the end, rate the base of the product/places on their experience.

Use case model:

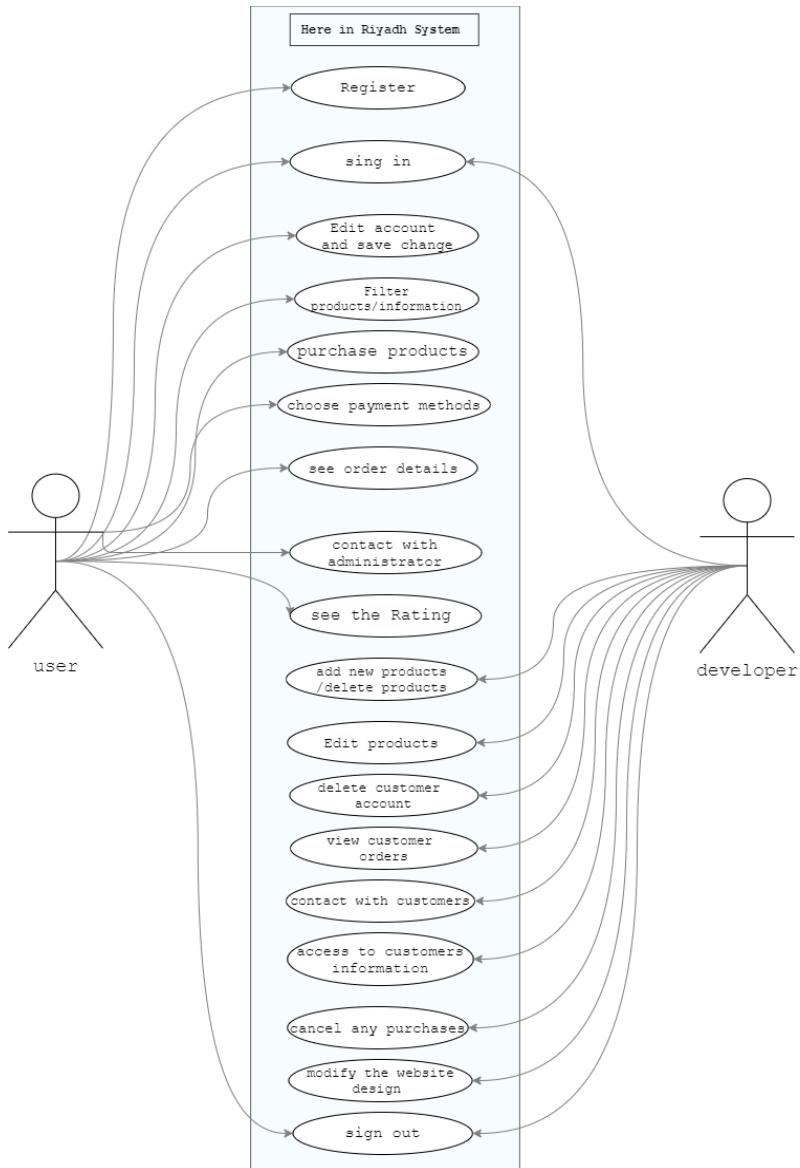


Figure 4. Use case model

- **Functional requirement**

1-User-customer Requirements:

Number	Function Name	Pre-condition	Post-condition	Description	Criticality
1	register	The user must enter her/his information correctly in the registration page in order to register.	The user has registered and has her/his own account and became member.	The register is an essential process to buy the products.	High
2	Sign in	The User must be registered and using their own account	User will enter the system	the username and the password must be valid and available in the databases to complete the sign in process.	High
3	View restaurant and tourist place	The user should be able to click the restaurant and tourist place from the site map	The user will be able to view restaurant and tourist place information	Viewing all information of the restaurant and tourist place with their location and rating	High

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4	View souvenir gift	The user should be able to click the souvenir gift from the site map	The user will be able to view the souvenir gift	Viewing all information of the souvenir gift that include name – description- price	High
5	Filtering the restaurant	The user should be able to use the drop-down list on restaurant page	Detail view will appear based on what user choose among neighborhood and restaurant type	User can view restaurant's details based on his or her choice	High
6	Purchase product	The user should be able to select available product	All information about orders of the gift will appear to the user and it will be sent to the system	User purchase souvenirs	High
7	contact	The user should be to click on contact page	Contact information will appear to the user	Web site contact information via social media will appear to the user	High
8	Sign out	The user should be to sign out	The user should be able to return to home page	The user can sign out	High

2- Administrator/developers Requirements:

Number	Function Name	Pre-condition	Post-condition	Description	Criticality
1	Sign in	The developer must be registered by the system using their own account	Developer will enter the system	the username and the password must be valid and available in the databases to complete the sign in process.	High
2	Modifying restaurant, tourist place and souvenir gift	The developer should be able to add, edit and delete the restaurant, tourist place and souvenir gift pages	The system will update the changes	Change the description of information, picture, and product	High
3	Viewing and cancel user order	The developer should be able to view and cancel user product	The customer order has been viewed or cancelled	Modifying and viewing user order if any case that could happened	High
4	Access user information	The developer should be to access the data base of the users	Viewing user's information in the database	View user password and username for any emergency cases	High
5	Sign out	The developer	The developer should be able to return to the home page	The developer can sign out	High

should be to
sign out

Non-functional requirement:

Usability

The website should be clear, flexible, and easy to navigate between web pages.

Reliability

The website should be able to function effectively without failures.

Performance

The website should make it easy for users to easily respond to their activities without wasting their time.

User Interface Design

The website user interface should be clear, easy to use, and good-looking.

Information Security and Privacy

The website must provide a high level of security and privacy to protect all users' data from any threat or exposure to external parties.

Browser Compatibility

The website should be portable and work efficiently in different browsers such as Google Chrome, Mozilla Firefox and Microsoft edge.

Maintainability

To avoid unforeseen issues, the website should be easy to manage, when adding new functionality and capabilities.

Scalability

The website should be scalable to an increasing number of users.

Integrity

The data is up to date.

Limitations and Restrictions

The website has limitations because it is the first version of the website it does not covers all the restaurant and tourist places of Riyadh, but we will work on in the

near future to cover all sites. The restriction is that the website supports only English language.

Technology specification

- ASP.NET: for program the functions
- C#: Language code
- CSS: for styling the pages.
- SQL server: for the database.
- HTML: for the web pages

CHAPTER3: System Design

Database specification

Entity relationship diagram

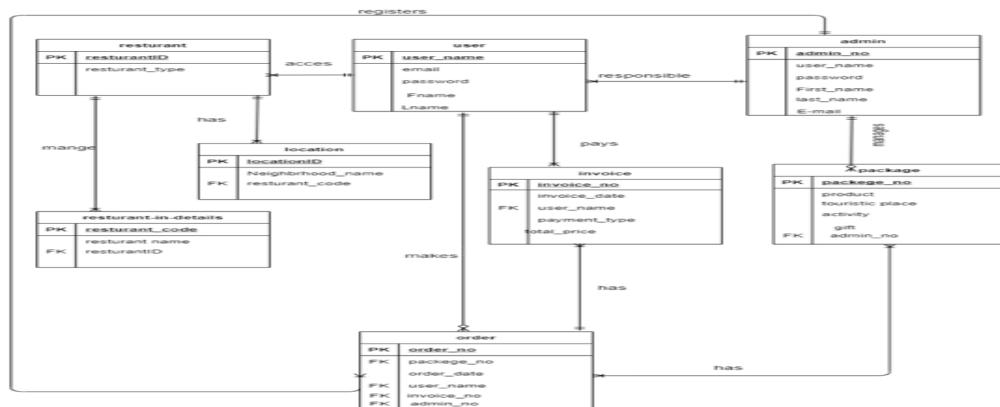


Figure 5. Entity relationship diagram

Tables and their attributes

1-admin table:

The screenshot shows the 'admin' table design in SSMS. The table has the following columns:

Name	Data Type	Allow Nulls	Default
admin_no	int	■	
user_name	varchar(50)	■	
password	nchar(10)	■	
First_name	nchar(10)	■	
Last_name	varchar(50)	■	
E-mail	varchar(50)	■	

Below the table definition, the CREATE TABLE script is displayed:

```

CREATE TABLE [dbo].[admin] (
    [admin_no] int NOT NULL,
    [user_name] varchar(50) NOT NULL,
    [password] nchar(10) NOT NULL,
    [First_name] nchar(10) NOT NULL,
    [Last_name] varchar(50) NOT NULL,
    [E-mail] varchar(50) NOT NULL
)
    
```

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Figure 6. admin table

2-invoice table:

The screenshot shows the SQL Server Management Studio interface with three windows:

- dbo.invoice [Design]**: Shows the table structure with columns: invoice_no (int, primary key), invoice_date (varchar(50)), user_name (varchar(50)), payment_type (varchar(50)), and total_price (nchar(10)). It also displays the T-SQL script for creating the table.
- dbo.invoice [Data]**: Displays the data for the invoice table with four rows: (100, 2-2-2020, sara2, cash, 120), (101, 3-9-2020, sultan22, credit card, 200), (102, 4-5-2020, noura99, cash, 150), and a NULL row.
- dbo.admin [Design]**: Shows the admin table with columns: admin_no (int, primary key), user_name (varchar(50)), password (varchar(50)), first_name (varchar(50)), last_name (varchar(50)), and E-mail (varchar(50)). It contains five rows: (23211, Shoug, shouq21, Shoug, Almarshad, ShougAlmarsh..), (43211, Sumayah, sumayah22, sumayah, Alwathan, SumayahAlwart...), (64745, Fay, fay20, Fay, Althaimeen, fayAlthaimeen...), and a NULL row.

Figure 7. invoice table

3-location table:

The screenshot shows the SQL Server Management Studio interface with three windows:

- dbo.location [Design]**: Shows the location table structure with columns: LocationID (nchar(10), primary key), Neighborhood_name (nvarchar(50)), and restaurant_code (nchar(10)). It also displays the T-SQL script for creating the table.
- dbo.location [Data]**: Displays the data for the location table with seven rows: (111, Al Nakheel, 555), (222, Al Sulimanyah, 777), (333, Hittin, 888), (444, Ath Thumamah..., 111), (555, Al Olaya, 999), (666, Al Safarat, 333), (777, Al Takhassusi, 444), (888, Al Sulimaniyah, 222), and a NULL row.

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Figure 8. location table

4-order table:

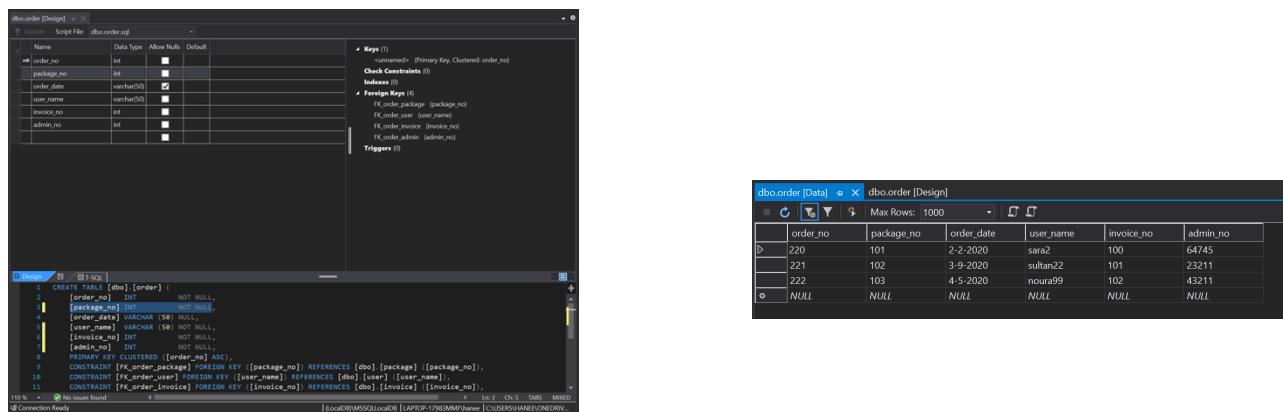
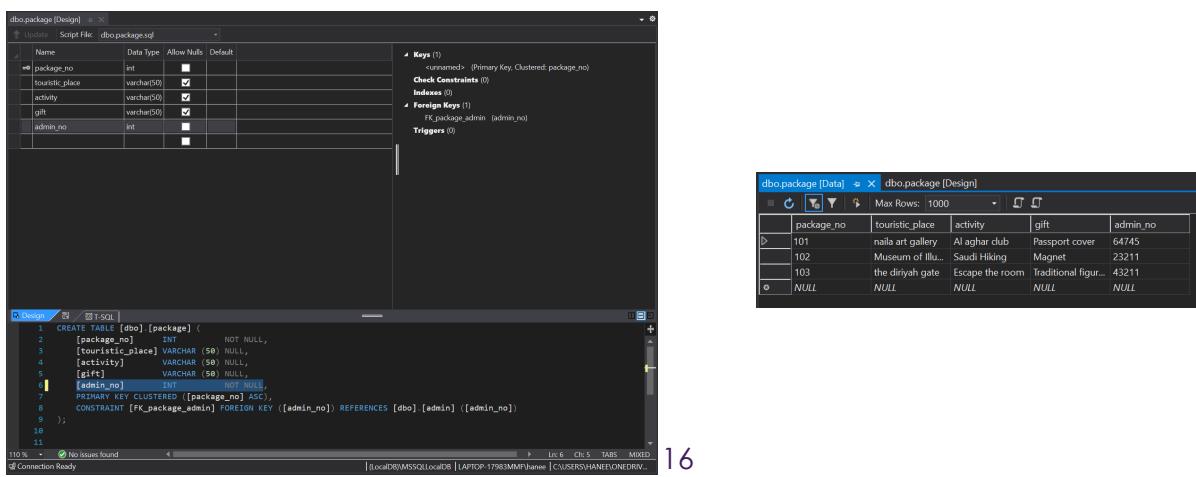


Figure 9. order table

5-package table:



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Figure 10. package table

6-restaurant table:

The screenshot shows the SQL Server Management Studio interface. On the left, the 'Design' tab of the 'dbo.restaurant [Data]' window is selected, displaying the table structure with two columns: 'restaurantID' (nchar(10)) and 'restaurant_type' (varchar(50)). The 'T-SQL' tab shows the CREATE TABLE script. On the right, the 'Data' tab shows the current data in the table:

restaurantID	restaurant_type
101	Breakfast
102	Dinner
103	Lunch
NULL	NULL

Figure 11. restaurant table

7-restaurant in details table:

The screenshot shows the SQL Server Management Studio interface. On the left, the 'Design' tab of the 'dbo.restaurant_in_details [Data]' window is selected, displaying the table structure with three columns: 'restaurantID' (nchar(10)), 'restaurant_name' (varchar(50)), and 'restaurant_code' (nchar(10)). The 'T-SQL' tab shows the CREATE TABLE script, including a FOREIGN KEY constraint referencing the 'restaurant' table. On the right, the 'Data' tab shows the current data in the table:

restaurantID	restaurant name	restaurant_code
101	chapter	111
103	Myazu	222
102	La rustica pizzer...	333
103	ZOE	444
102	eat up	555
101	urth caffe	777
101	yello	888
102	mamo	999
NULL	NULL	NULL

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Figure 12. restaurant in details table

8-user table:

The screenshot shows three windows related to the 'dbo.user' table:

- dbo.user [Design]**: Shows the table structure with columns: user_name (Primary Key, Clustered), email, password, admin_no, FName, and LName.
- dbo.user [Data]**: Shows the data in the table with four rows:

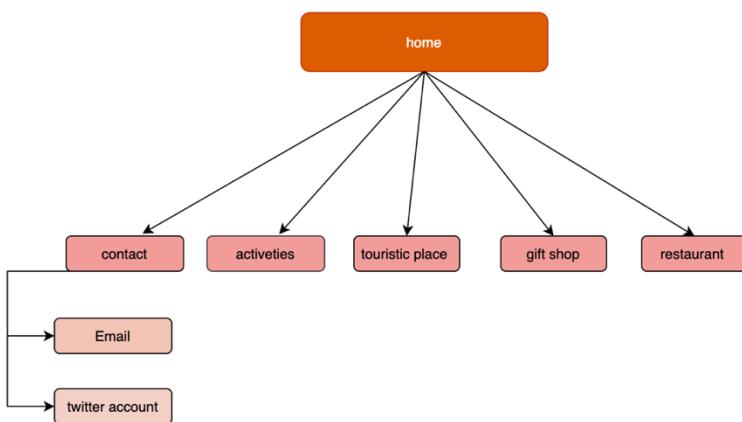
user_name	email	password	admin_no	FName	LName
noura99	noura99@hot...	3299	43211	noura	alnasser
sara2	saraahmad@ho...	1231	64745	sara	alahmad
sultan22	sultan-22@hot...	2222	23211	sultan	alsaleh
NULL	NULL	NULL	NULL	NULL	NULL

- Script SQL**: Shows the CREATE TABLE statement for the 'user' table.

```
CREATE TABLE [dbo].[user] (
    [user_name] VARCHAR(50) NOT NULL,
    [email] VARCHAR(50) NOT NULL,
    [password] VARCHAR(50) NOT NULL,
    [FName] VARCHAR(50) NOT NULL,
    [LName] VARCHAR(50) NOT NULL,
    PRIMARY KEY CLUSTERED ([user_name] ASC),
);
```

Figure 13. user table

site map



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Figure 14. site map

user interface

Main Page (Home)

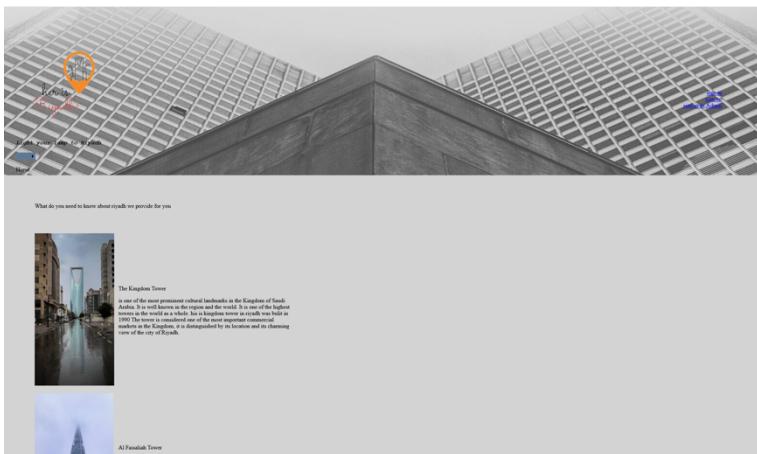
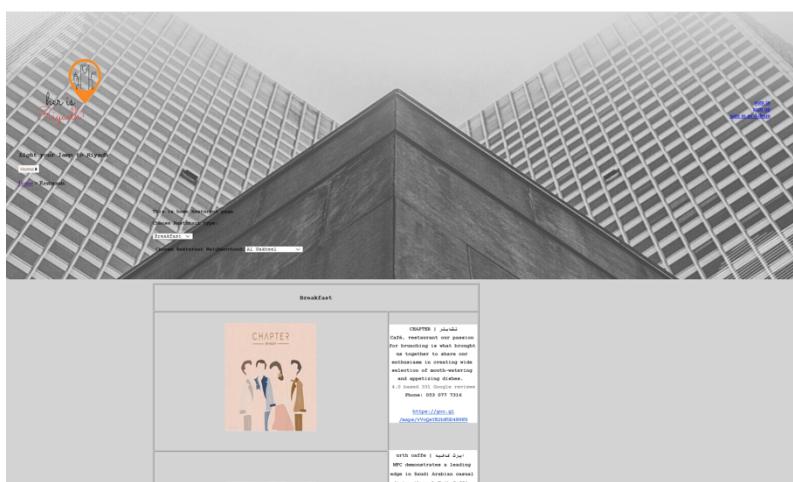


Figure 15. Main Page

Restaurant page



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Figure 16. Restaurant Page

Gift shop page

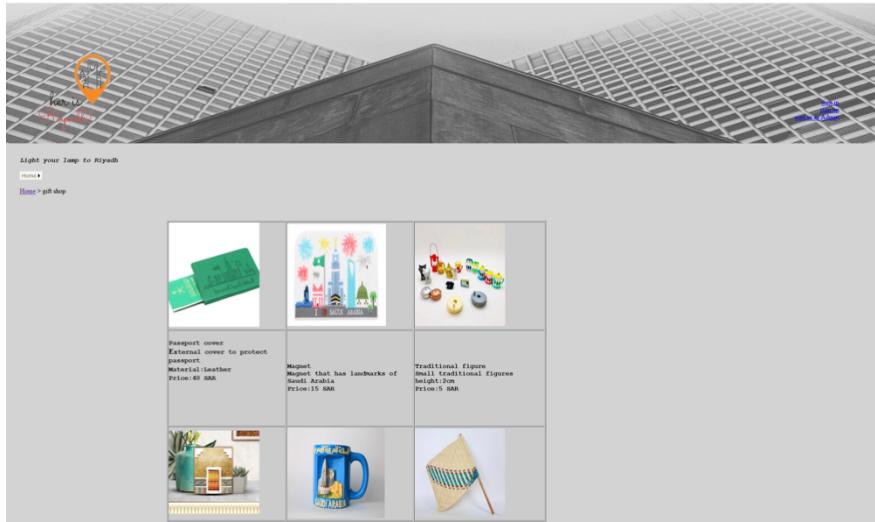
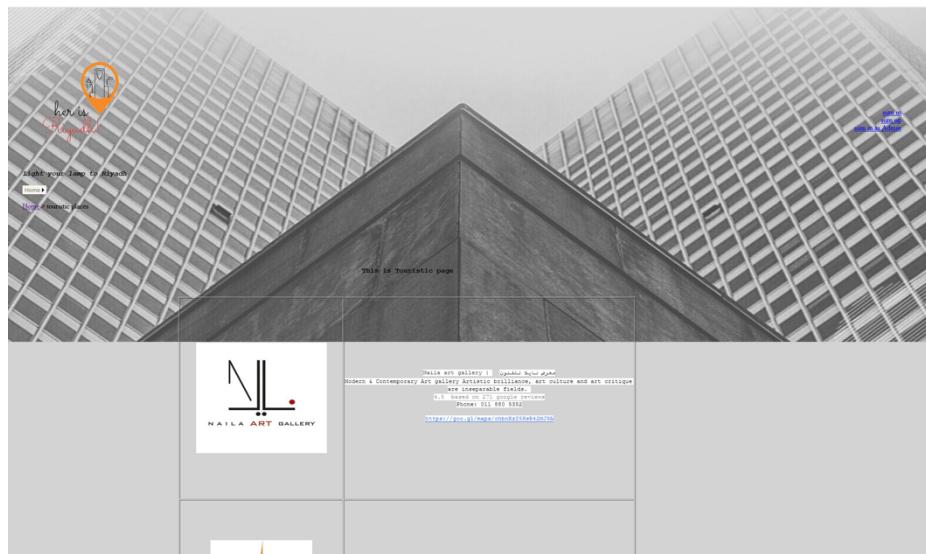


Figure 17. Gift shop page

Tourist place page



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Figure 18. Tourist place page

Activate page

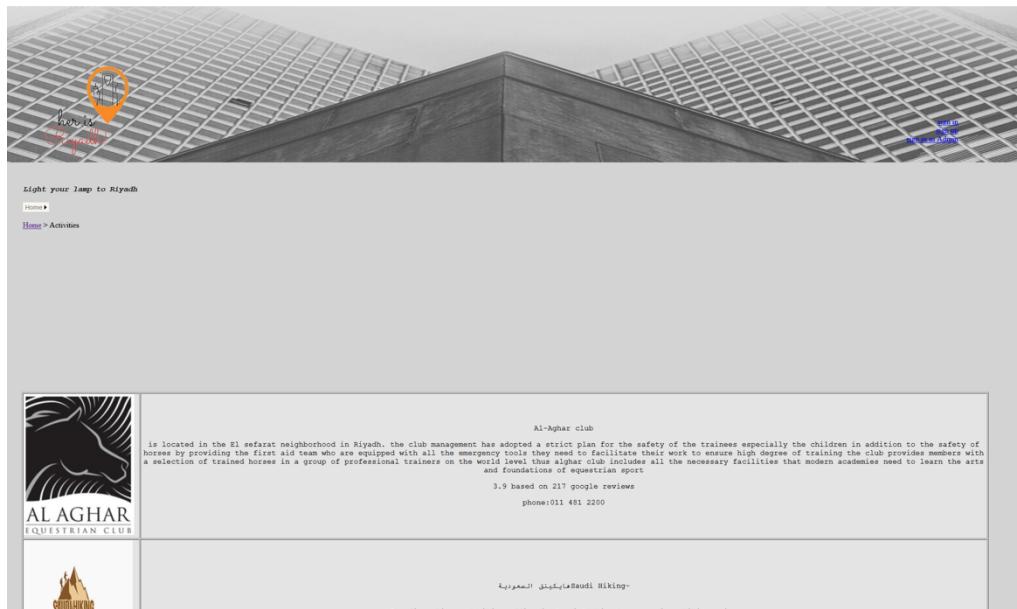


Figure 19. Activate page

Contact us page



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Figure 19. Contact us page

Sign up page

Username:	<input type="text"/>
First name:	<input type="text"/>
Last name:	<input type="text"/>
E-mail:	<input type="text"/>
Password:	<input type="password"/>
Confirm password:	<input type="password"/>

Already have an account? [sign_in](#)

[sign up](#)

Figure 20. sign up page

sign in page

User name:	<input type="text"/>
Password:	<input type="password"/>

You do not have an account? [sign_up](#)

[Sign in](#)

[Male your ❤ in Riyadh](#)

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Figure 21. sign in page

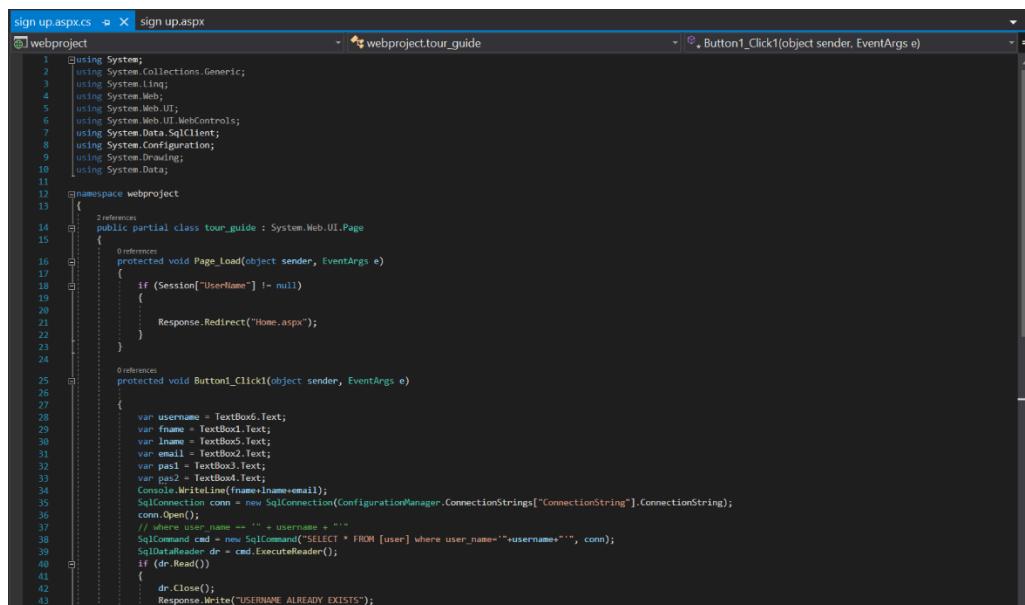
Chapter 4: Implementation

Database Development

We will develop and create the database using SQL server and then connect it to our website. For example, in registration we connect it to database to add new user in our website. In sign in also it validates the user information in database and make sure that already have been in the database.

connection

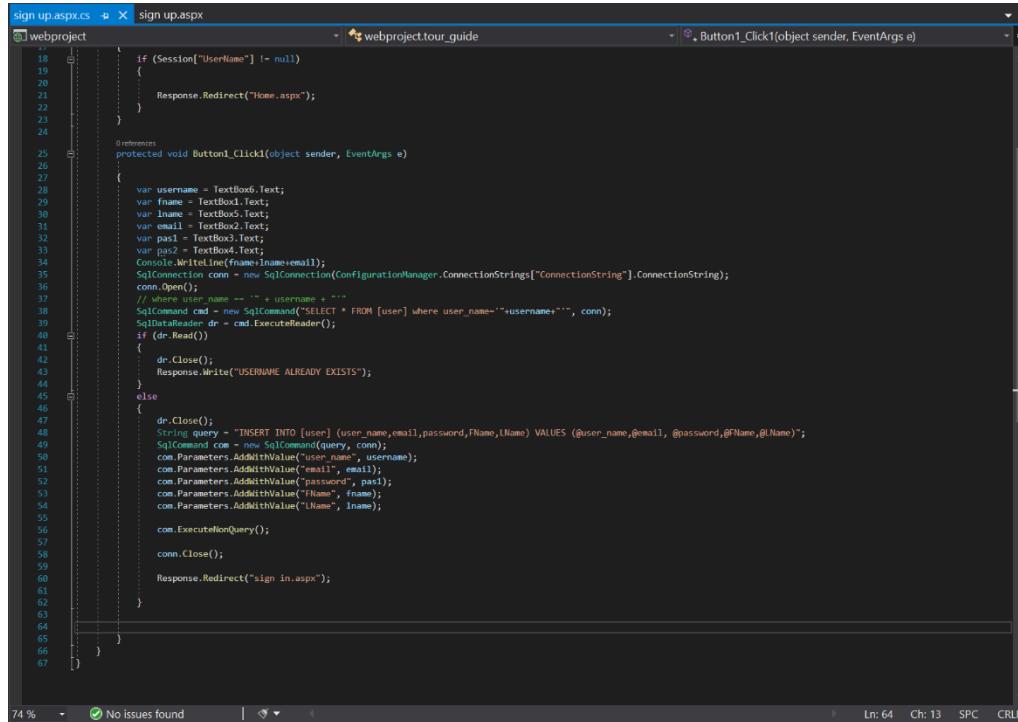
Connection the sign-up user



```
sign up.aspx.cs  sign up.aspx  webproject.tour_guide  Button1_Click1(object sender, EventArgs e)
webproject
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Web;
5  using System.Web.UI;
6  using System.Web.UI.WebControls;
7  using System.Data.SqlClient;
8  using System.Configuration;
9  using System.Drawing;
10 using System.Data;
11
12 namespace webproject
13 {
14     public partial class tour_guide : System.Web.UI.Page
15     {
16         protected void Page_Load(object sender, EventArgs e)
17         {
18             if (Session["UserName"] != null)
19             {
20                 Response.Redirect("Home.aspx");
21             }
22         }
23     }
24
25     protected void Button1_Click1(object sender, EventArgs e)
26     {
27         var username = TextBox6.Text;
28         var fname = TextBox1.Text;
29         var lname = TextBox5.Text;
30         var email = TextBox2.Text;
31         var pass = TextBox3.Text;
32         var conf = TextBox4.Text;
33         Console.WriteLine(fname+lname+email);
34         SqlConnection conn = new SqlConnection(ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString);
35         conn.Open();
36         // where user_name == '' + username + ''
37         SqlCommand cmd = new SqlCommand("SELECT * FROM [user] where user_name='"+username+"'", conn);
38         SqlDataReader dr = cmd.ExecuteReader();
39         if (dr.Read())
40         {
41             dr.Close();
42             Response.Write("USERNAME ALREADY EXISTS");
43         }
44     }
45 }
```

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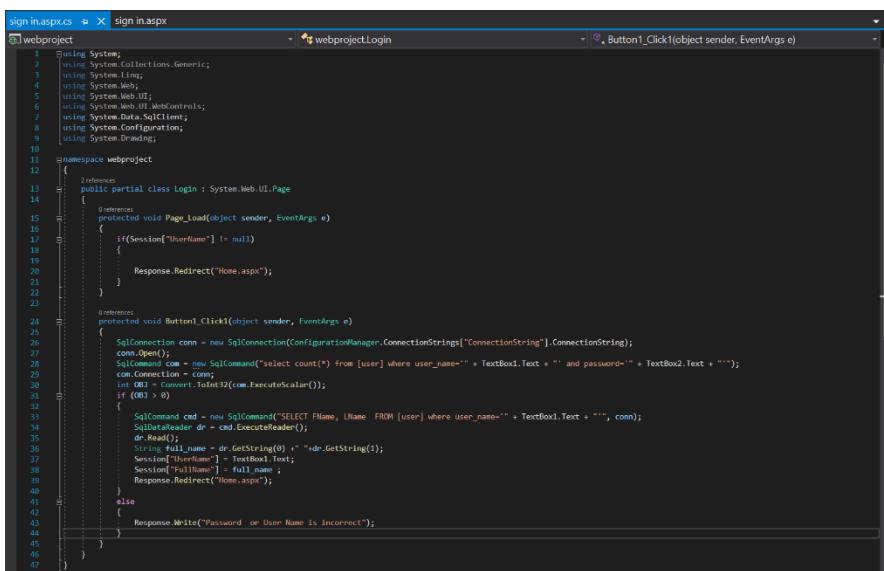


```
sign up.aspx.cs  sign up.aspx  webproject.tour_guide  Button1_Click1(object sender, EventArgs e)
-----+-----+-----+-----+
18 |     if (Session["UserName"] != null)
19 |     {
20 |         Response.Redirect("Home.aspx");
21 |     }
22 |
23 |
24 |
25 |     protected void Button1_Click1(object sender, EventArgs e)
26 |
27 |
28 |     {
29 |         var username = TextBox6.Text;
30 |         var fname = TextBox1.Text;
31 |         var lname = TextBox5.Text;
32 |         var email = TextBox2.Text;
33 |         var pass = TextBox3.Text;
34 |         var pass2 = TextBox4.Text;
35 |         Console.WriteLine(fname+lname+email);
36 |         SqlConnection conn = new SqlConnection(ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString);
37 |         conn.Open();
38 |         string query = "SELECT * FROM [user] where user_name='"+username+"'";
39 |         SqlCommand cmd = new SqlCommand(query, conn);
40 |         SqlDataReader dr = cmd.ExecuteReader();
41 |         if (dr.Read())
42 |         {
43 |             dr.Close();
44 |             Response.Write("USERNAME ALREADY EXISTS");
45 |         }
46 |         else
47 |         {
48 |             dr.Close();
49 |             String query = "INSERT INTO [user] (user_name,email,password,fName,lName) VALUES (@user_name,@email, @password,@fName,@lName)";
50 |             SqlCommand com = new SqlCommand(query, conn);
51 |             com.Parameters.AddWithValue("@user_name", username);
52 |             com.Parameters.AddWithValue("@email", email);
53 |             com.Parameters.AddWithValue("@password", pass);
54 |             com.Parameters.AddWithValue("@fName", fname);
55 |             com.Parameters.AddWithValue("@lName", lname);
56 |
57 |             com.ExecuteNonQuery();
58 |
59 |             conn.Close();
60 |
61 |             Response.Redirect("sign in.aspx");
62 |
63 |
64 |
65 |
66 |
67 |     }
68 |
69 | }
```

74% No issues found 49 ▾ Ln: 64 Ch: 13 SPC CRLF

Figure 22. sign up user connection

Connecting the sign in user and the check their information for successful sign in



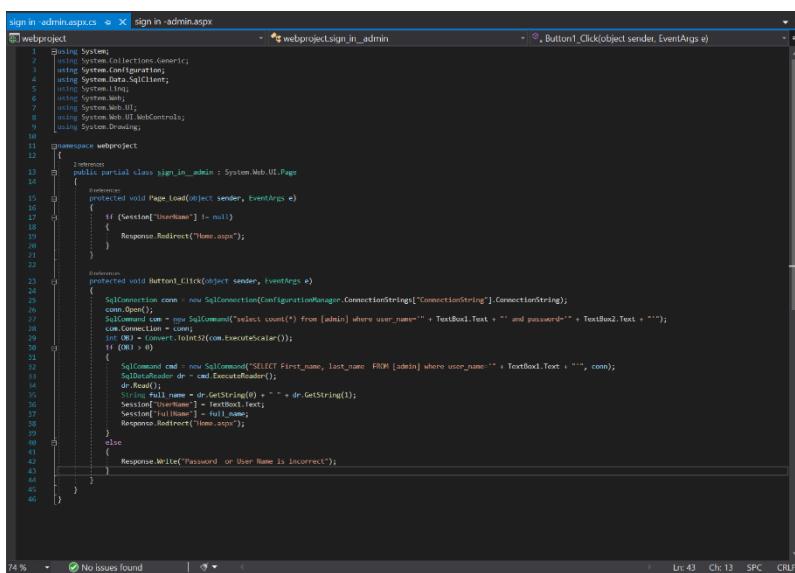
```
sign in.aspx.cs  sign in.aspx  webproject.Login  Button1_Click1(object sender, EventArgs e)
-----+-----+-----+-----+
1 | using System;
2 | using System.Collections.Generic;
3 | using System.Linq;
4 | using System.Web;
5 | using System.Web.UI;
6 | using System.Web.UI.WebControls;
7 | using System.Data.SqlClient;
8 | using System.Configuration;
9 | using System.Drawing;
10 |
11 | namespace webproject
12 |
13 | {
14 |     public partial class Login : System.Web.UI.Page
15 |     {
16 |         protected void Page_Load(object sender, EventArgs e)
17 |         {
18 |             if(Session["UserName"] != null)
19 |             {
20 |                 Response.Redirect("Home.aspx");
21 |             }
22 |         }
23 |
24 |         protected void Button1_Click1(object sender, EventArgs e)
25 |         {
26 |             SqlConnection conn = new SqlConnection(ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString);
27 |             conn.Open();
28 |             SqlCommand cmd = new SqlCommand("select count(*) from [user] where user_name='"+ TextBox1.Text + "' and password='"+ TextBox2.Text + "'");
29 |             cmd.Connection = conn;
30 |             int res = Convert.ToInt32(cmd.ExecuteScalar());
31 |             if (res > 0)
32 |             {
33 |                 SqlCommand cmd2 = new SqlCommand("SELECT fName, lName FROM [user] where user_name='"+ TextBox1.Text + "'", conn);
34 |                 cmd2.ExecuteReader();
35 |                 string fullName = dr.GetString(0) + dr.GetString(1);
36 |                 Session["UserName"] = TextBox1.Text;
37 |                 Session["FullName"] = fullName ;
38 |                 Response.Redirect("Home.aspx");
39 |             }
40 |             else
41 |             {
42 |                 Response.Write("Password or User Name is incorrect");
43 |             }
44 |         }
45 |     }
46 | }
```

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Figure 23. Connection the sign in user

Connecting the sign in to the admin and the check their information for successful sign in



```
sign_in_admin.aspx.cs  sign_in-admin.aspx
webproject  webproject:sign_in_admin  Button1_Click(object sender, EventArgs e)
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.SqlClient;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Drawing;
namespace webproject
{
    public partial class sign_in_admin : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (Session["Username"] != null)
            {
                Response.Redirect("Home.aspx");
            }
        }
        protected void Button1_Click(object sender, EventArgs e)
        {
            SqlConnection con = new SqlConnection(ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString);
            con.Open();
            SqlCommand cmd = new SqlCommand("select count(*) from [admin] where user_name='" + TextBox1.Text + "' and password='" + TextBox2.Text + "'");
            cmd.Connection = con;
            int i = Convert.ToInt32(cmd.ExecuteScalar());
            if (i > 0)
            {
                SqlCommand cmd2 = new SqlCommand("SELECT first_name, last_name FROM [admin] where user_name='" + TextBox1.Text + "'", con);
                SqlDataReader dr = cmd2.ExecuteReader();
                dr.Read();
                Session["full_name"] = dr.GetString(0) + " " + dr.GetString(1);
                Session["full_name"] = TextBox1.Text;
                Session["full_name"] = full_name;
                Response.Redirect("Home.aspx");
            }
            else
            {
                Response.Write("Password or User Name is incorrect");
            }
        }
    }
}
```

Figure 24. Connection the sign in admin

sign out successfully

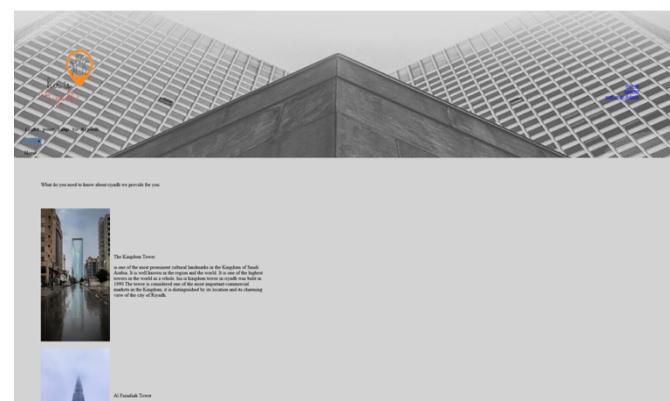
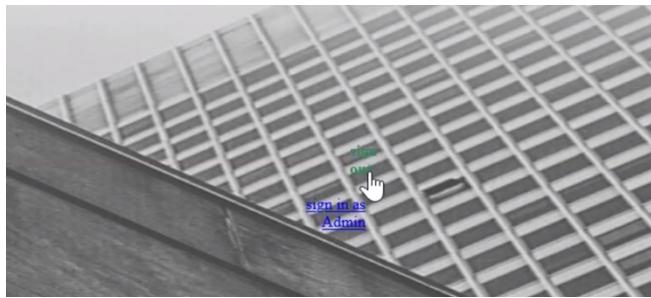
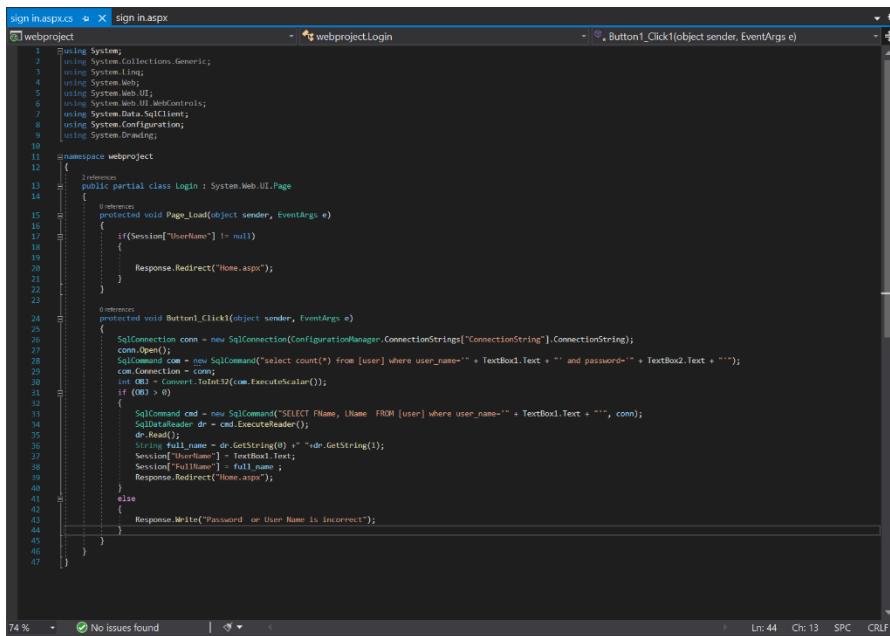


Figure 25. sign out

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...

Add Session tracking (cookies)



The screenshot shows the code editor of Microsoft Visual Studio with the file "Sign in.aspx.cs" open. The code is written in C# and defines a partial class "Login" that inherits from "System.Web.UI.Page". It contains two methods: "Page_Load" and "Button1_Click". The "Page_Load" method checks if the session variable "UserName" is null and, if so, redirects the user to "Home.aspx". The "Button1_Click" method performs a database query to check if the provided username and password exist. If they do, it retrieves the full name and stores it in session variables ("UserName" and "FullName"). It then redirects the user to "Home.aspx". If the credentials are incorrect, it displays an error message.

```
Sign in.aspx.cs  sign in.aspx
webproject  webprojectLogin  Button1_Click1(object sender, EventArgs e)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;
using System.Configuration;
using System.Drawing;
namespace webproject
{
    public partial class Login : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if(Session["UserName"] == null)
            {
                Response.Redirect("Home.aspx");
            }
        }
        protected void Button1_Click1(object sender, EventArgs e)
        {
            SqlConnection conn = new SqlConnection(ConfigurationManager.ConnectionStrings["ConnectionString"].ConnectionString);
            SqlCommand cmd = new SqlCommand("select count(*) from [user] where user_name='" + TextBox1.Text + "' and password='" + TextBox2.Text + "'");
            cmd.Connection = conn;
            int Obj = Convert.ToInt32(cmd.ExecuteScalar());
            if (Obj > 0)
            {
                SqlCommand cmd1 = new SqlCommand("SELECT Fname, Lname FROM [user] where user_name='" + TextBox1.Text + "'", conn);
                SqlDataReader dr = cmd1.ExecuteReader();
                dr.Read();
                Session["UserName"] = TextBox1.Text;
                Session["FullName"] = dr.GetString(0) + " " + dr.GetString(1);
                Session["FullName"] = full_name ;
                Response.Redirect("Home.aspx");
            }
            else
            {
                Response.Write("Password or User Name is incorrect");
            }
        }
    }
}
```

Figure 26. Session tracking (cookies)

Front End User Control Panel

User sig in

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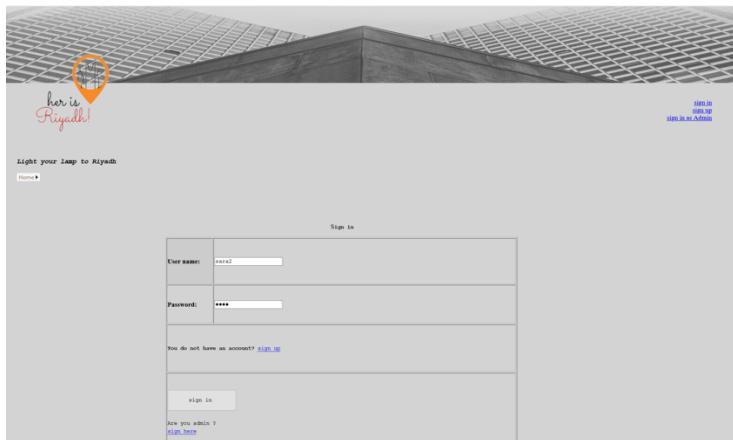


Figure 27. User Control Panel - User sign in

After the user sign in it will response him directly to home page with welcome phare along with the username

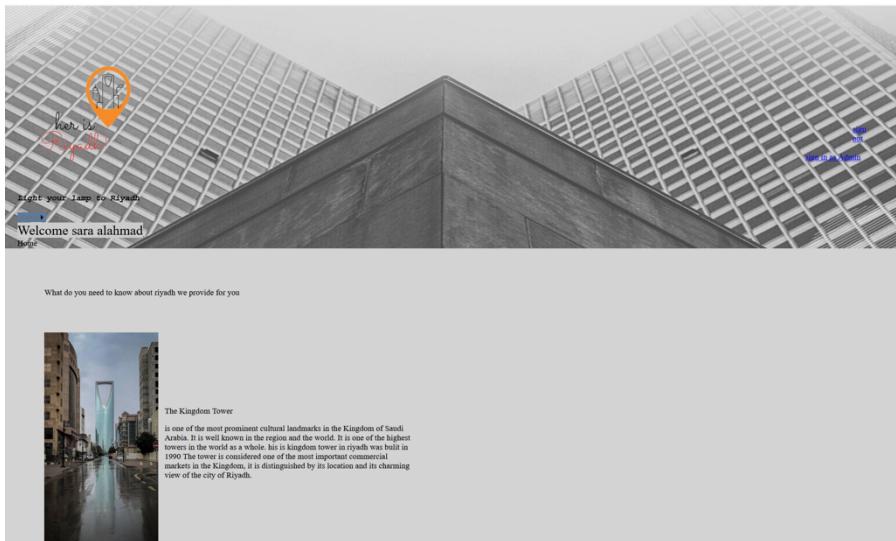


Figure 28. response to home page

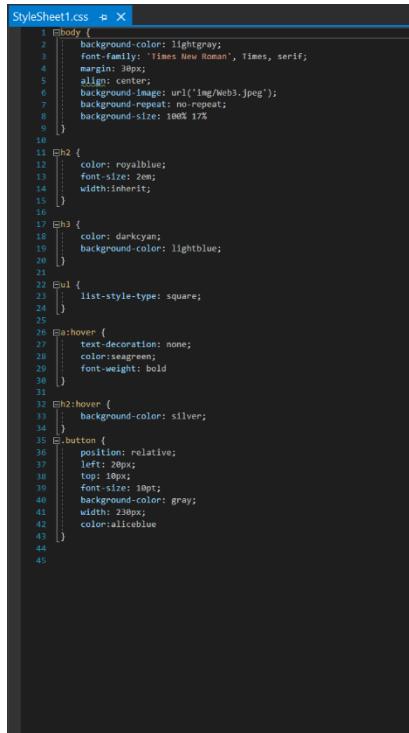
Chapter 5

Testing and Evaluation

Test Design

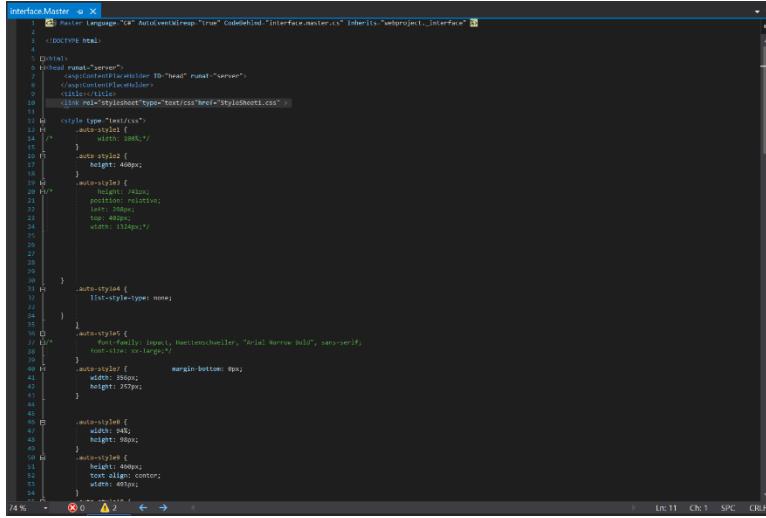
We designed our website by ourselves to develop our skills and to see how it works in real life. We have one Master page and four major content pages which is restaurant, activities, gift shop and tourist place.

CSS pages



```
StyleSheet1.css  ✎ ×
1  body {
2      background-color: lightgray;
3      font-family: 'Times New Roman', Times, serif;
4      margin: 30px;
5      align:center;
6      background-image: url('img/Web3.jpeg');
7      background-repeat: no-repeat;
8      background-size: 100% 100%
9  }
10
11 h2 {
12     color: royalblue;
13     font-size: 2em;
14     width: inherit;
15 }
16
17 h3 {
18     color: darkcyan;
19     background-color: lightblue;
20 }
21
22 ul {
23     list-style-type: square;
24 }
25
26 a:hover {
27     text-decoration: none;
28     color: seagreen;
29     font-weight: bold;
30 }
31
32 h2:hover {
33     background-color: silver;
34 }
35 .button {
36     position: relative;
37     left: 20px;
38     top: 10px;
39     font-size: 10pt;
40     background-color: gray;
41     width: 23px;
42     color: aliceblue;
43 }
44
45
```

Linking CSS with master page



```
InterfaceMaster.aspx  ✎ ×
1 <%@ Master Language="C#" AutoEventWireup="True" CodeBehind="interface.master.cs" Inheritance="subproject.Interface" %>
2
3 <!DOCTYPE HTML>
4
5 <html>
6 <head runat="Server">
7     <asp:ContentPlaceHolder ID="head" runat="Server">
8         <title></title>
9         <link rel="stylesheet" type="text/css" href="StyleSheet1.css" />
10    </asp:ContentPlaceHolder>
11    <style type="text/css">
12        .auto-style1 {
13            width: 100px;
14            margin-left: 10px;
15        }
16        .auto-style2 {
17            height: 40px;
18        }
19        .auto-style3 {
20            height: 40px;
21            position: relative;
22            margin: 20px;
23            top: 10px;
24            width: 150px;
25        }
26
27
28
29
30        .auto-style4 {
31            text-align: center;
32        }
33
34        .auto-style5 {
35            font-family: "Times New Roman", Times, serif;
36            font-size: 14pt;
37            color: black;
38            margin-top: 10px;
39        }
40        .auto-style6 {
41            margin-bottom: 0px;
42            width: 350px;
43            height: 270px;
44        }
45
46        .auto-style7 {
47            width: 94%;
48            height: 60px;
49        }
50        .auto-style8 {
51            width: 94px;
52            text-align: center;
53            font-size: 10pt;
54            width: 40px;
55        }
56    </style>
57 </head>
```

Application Testing

Unit Testing

Testing the sign in for user

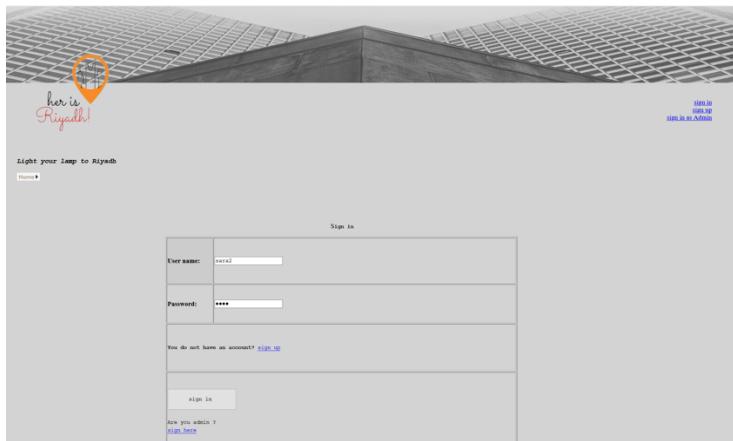


Figure 29. Testing the sign in for user

Testing the sign in for admin

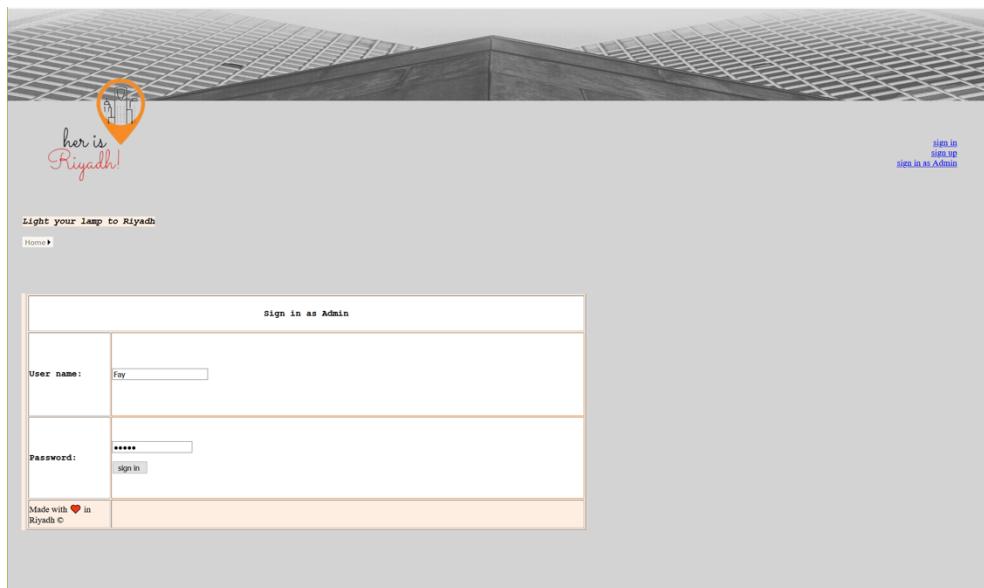


Figure 30. Testing the sign in for user

...

Testing the validation of the sign in.

The screenshot shows a landing page with a large background image of a building's roof. At the top left, there is a red-bordered box containing the text "Password or User Name is incorrect". Below this, there is a small orange location pin icon with the text "her is Riyadh!". On the right side, there are three blue links: "sign in", "sign up", and "sign in as Admin". At the bottom left, there is a link "Light your lamp to Riyadh" and a "Home" button. In the center, there is a "Sign in" form with fields for "User name" (containing "MZOON") and "Password". Below the form, there is a link "You do not have an account? [sign up](#)". At the bottom of the form, there is a "sign in" button and a link "Are you admin? [sign here](#)".

Figure 31. Testing validation of the sign in

Testing the sign up.

The screenshot shows a "Sign up" form with six input fields: "Username" (MZOON@), "First name" (M#), "Last name" (empty field with a note "please write your last name"), "E-mail" (MZZ) with an error message "E-mail isn't in the right form", "Password" (*****), and "Confirm password" (***). Below the form, there is a link "Already have an account? [sign in](#)". At the bottom of the form, there is a "sign up" button.

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Figure 32. Testing the sign up.

Testing the sign out

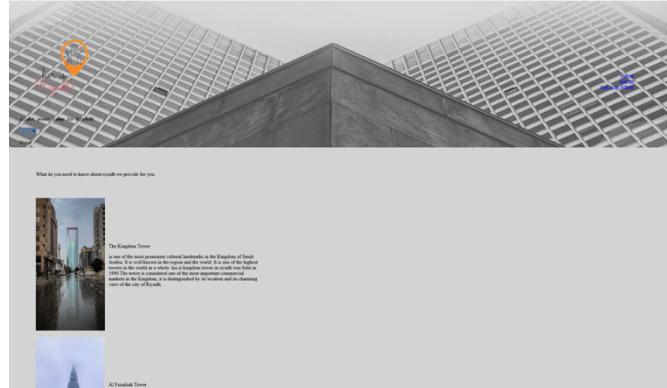


Figure 33. Testing the sign out

Testing filtering for the restaurant

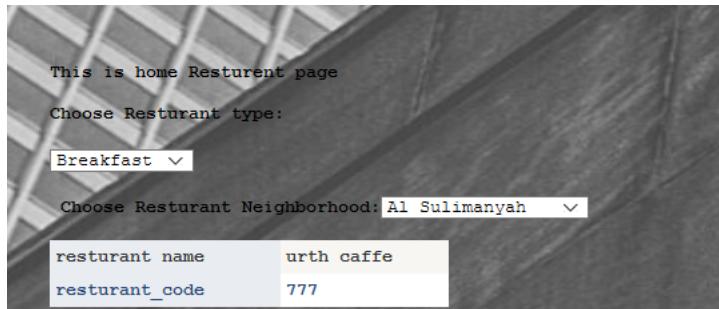


Figure 34. Testing filtering for the restaurant

Databases Testing

Add new user of our website

dbo.user [Data] × dbo.user [Design]						
	Y	Y	Max Rows: 1000	SQL	XML	
	user_name	email	password	admin_no	FName	LName
1	noura99	noura99@hotmail.com	3299	43211	noura	alnasser
2	sara	saraalmad@hotmail.com	1231	64745	sara	alhmad
3	sultan22	sultan22@hotmail.com	2292	23211	sultan	alsaleh
4	NULL	NULL	NULL	NULL	NULL	NULL

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Figure 35. Databases Testing for adding a new user

Validate the username and password according to the information in the database

dbo.user [Data] dbo.user [Design]						
	user_name	email	password	admin_no	FName	LName
▷	noura99	noura99@hotmail.com	3299	49211	noura	glousser
▷	sara2	saraahmad@hotmail.com	1231	64745	sara	alnahmud
▷	sultan22	sultan-22@hotmail.com	2222	23211	sultan	alsaleh
▷	NULL	NULL	NULL	NULL	NULL	NULL

Figure 36. Databases Testing for user validation

Result the filtering from detail view table from restaurant in details table

<div style="border-bottom: 1px solid black; padding-bottom: 5px;">dbo.location [Data] dbo.location [Design]</div> <div style="background-color: #f9f9f9; padding: 5px;"> ▷ 111 Al Nakheel 555 ▷ 222 Al Sulimanyah 777 ▷ 333 Hittin 888 ▷ 444 Ath Thumamah... 111 ▷ 555 Al Olaya 999 ▷ 666 Al Safarat 333 ▷ 777 Al Takhassusi 444 ▷ 888 Al Sulimaniyah 222 ▷ 999 NULL NULL NULL </div>	<div style="border-bottom: 1px solid black; padding-bottom: 5px;">dbo.restaurant [Data] dbo.restaurant [Design]</div> <div style="background-color: #f9f9f9; padding: 5px;"> ▷ 101 Breakfast ▷ 102 Dinner ▷ 103 Lunch ▷ 104 NULL NULL </div>	<div style="border-bottom: 1px solid black; padding-bottom: 5px;">dbo.restaurant_in_deatils [Data] dbo.restaurant-in-deatils [Design]</div> <div style="background-color: #f9f9f9; padding: 5px;"> ▷ 101 chapter 111 ▷ 103 Myazu 222 ▷ 102 La rustica pizzer... 333 ▷ 103 ZOE 444 ▷ 102 eat up 555 ▷ 101 urth caffe 777 ▷ 101 yello 888 ▷ 102 mamo 999 ▷ 104 NULL NULL NULL </div>
---	--	--

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Figure 37. Databases Testing for the Result the filtering

Integration Testing

Testing the sign in

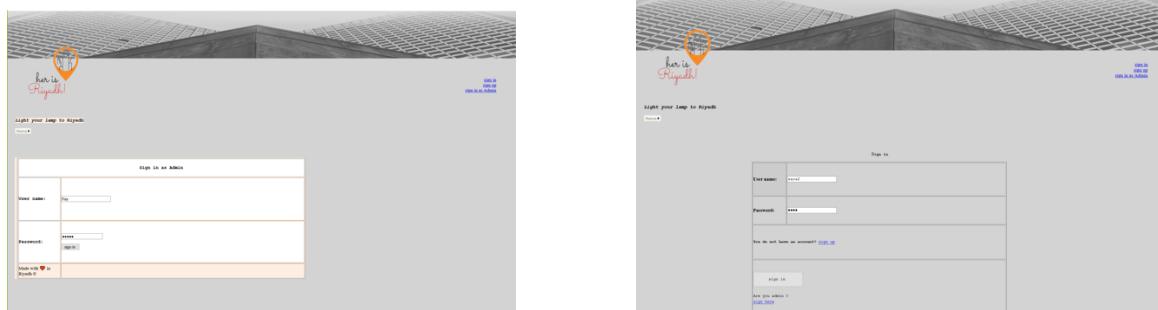


Figure 38. Integration Testing for sign in

Testing the sign up

The image shows a 'Sign up' form with the following fields and errors:

- Username:** MZOON@ (no error)
- First name:** M## (no error)
- Last name:** (empty field) - error message: 'please write your last name'
- E-mail:** MZZ (error message: 'E-mail isn't in the right form')
- Password:** **** (no error)
- Confirm password:** *** (error message: 'password dose not match')

At the bottom of the form, there is a link 'Already have an account? [sign in](#)' and a large 'sign up' button.

Figure 40. Integration Testing for sign out

System Testing

The system in general is working well. We test the user information if it matches the database information it goes to the home page.

Evaluation

The Criteria	Work well	Error
Functions	Yes	No
User control panel	Yes	No
Admin control panel	Yes	No
Navigation between menus	Yes	No
Design	Yes	No
filtering the restaurant	Yes	No
Ease of use	Yes	No

Chapter 6: Conclusion and Project Management:

6.1 Evaluation of Objectives and Aims:

Here in Riyadh achieved the main goal of providing a website that helps tourists to find all tourist places, restaurants, and activities, and we were keen to make their visit to Riyadh unforgettable through the contents of our website. Moreover, we are keen to choose an idea that supports the 2030 vision, which aims to attract tourists from all over the world. Naturally, we met a few problems such as lack of time, the difficulty of teamwork remotely, and transferring content from student to student, but we were able to bypass it with fewer Damages.

6.2 Evaluation of Project Management:

We cannot say that we managed our project as planned in terms of project management.

The project members completed their tasks, but we ran into some issues. We wanted to accomplish a lot of things on a weekly basis, but due to our busy schedules and inability to manage our time effectively, we had to

postpone some tasks. We also wanted to finish the project one week before the deadline, but we were unable to do so. If we return, we will better organize the meetings. We'll also build in more slack time during the implementation phase, which takes a long time.

Nonetheless, we completed the project on time, despite our dissatisfaction with our project management

6.3 Thoughts and Experience:

Working on this project was one of the greatest highlights of this term, it was an extraordinary experience, we learned a lot from the beginning to the end. Applying all the lectures and information we gained this term in the project made a huge positive change in our skills. We notice a great change in our skills starting with HTML and ending with Visual Studio that made us feel like real programmers. We learned an important lesson that one hand cannot clap. We are thankful for our great team that was so cooperative and helpful. We hope that we can carry out this project in real life. Finally, it is an unforgettable experience.

6.4 Improvements:

Here Is Riyadh Project aim to improve the website through adding some features and content to enhance the user experience, including:

- Using more JavaScript codes to enhance the connection between some web pages and increase usability.
- Creating a database that covers the whole website.
- Add more activities to suit all the Tourists' ages, genders and cutlers.
- Adding Email newsletters including new activities/places and promotions.
- Adding a sort/filter feature to make it easier to browse the site.
- To keep up with technology by increasing safety and security level, reduce time and cost.
- Navigation is faster and easier, so the user can use the website without any complexity.
- Develop an application easier to make it easier to browse the site.

- Adding online payment feature.

Appendix

STUDENT NAME : WEBSITE

REPORT

MINUTES OF
MEETING

Sumayah Alwarthan	Master page and Home page and Menu linking and cookies and database connection.	Ch1	Meeting with group 12 time 1 hour each.
----------------------	--	-----	--

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<i>Deema almainan</i>	Master page and link the content pages and user sign in and sign up pages and validations and database connection.	Ch1	Meeting with group 12 time 1 hour each.
<i>Mzoon Alnaghmush</i>	Site arrangement and appearance and admin Sign in and sign up pages and database connection and sign out.	Ch2 Ch6	Meeting with group 12 time 1 hour each.
<i>Lina alrashed</i>	Activity page and Gift shop page and Filtering restaurant And validations and database connection sign out.	Ch2 Ch4 Ch5	Meeting with group 12 time 1 hour each.
<i>Shoug almarshad</i>	Database and Restaurant page and Touristic places page	Ch3	Meeting with group 12 time 1 hour each.
<i>Nourah althunayan</i>	CSS and linking it in the master page and database connection and contact page.	Ch3	Meeting with group 12 time 1 hour each.

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Fay alothaimeen

Filtering
restaurant
Review and edit
and gather the
work and
validations and
database
connection sign
out.

Ch5
Ch2
Ch4

Meeting with
group
12 time 1 hour
each.

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