

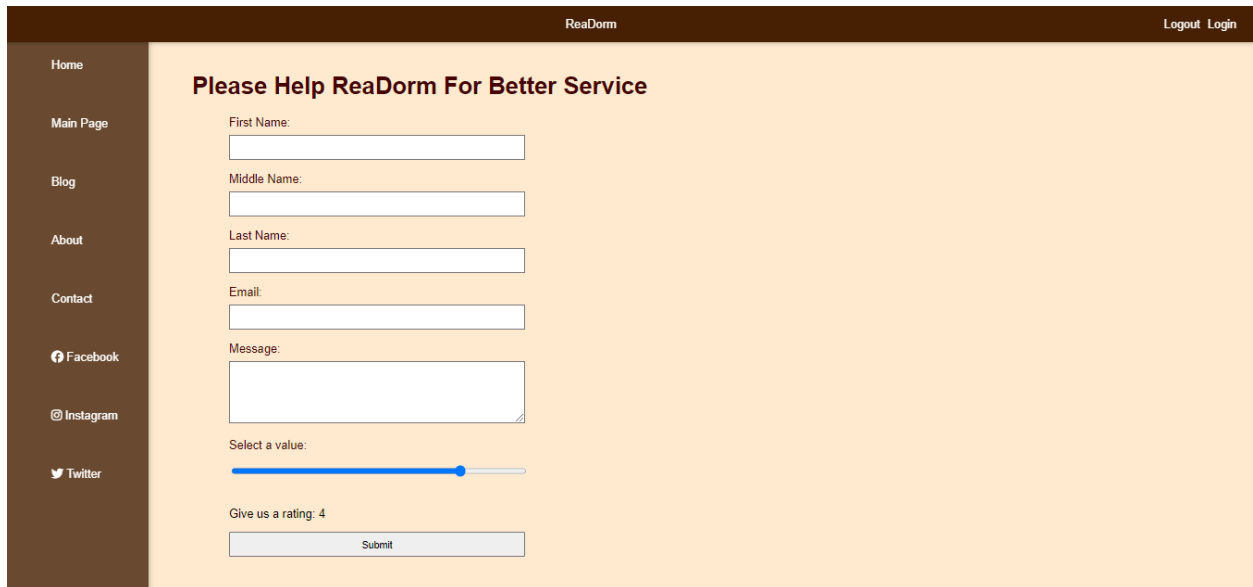
# COME373 Web Programming

Homework 2 – Lab Project

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## 1.Slider

We added a slider in our contact page, so that users can rate us.



The screenshot shows a web page for 'ReaDorm' with a dark brown header and sidebar. The main content area is light orange and titled 'Please Help ReaDorm For Better Service'. It contains a contact form with fields for First Name, Middle Name, Last Name, Email, and a Message box. Below these is a slider control labeled 'Select a value:' with a blue bar and a handle. The text 'Give us a rating: 4' is displayed below the slider, and a 'Submit' button is at the bottom.

Here is the code:

```
<label for="slider">Select a value:</label>

    <input type="range" id="slider" name="slider" min="0" max="5" step="1" value="0"
oninput="updateSliderValue(this.value)">

    <p id="sliderValue">Rating: 0</p>

<script>

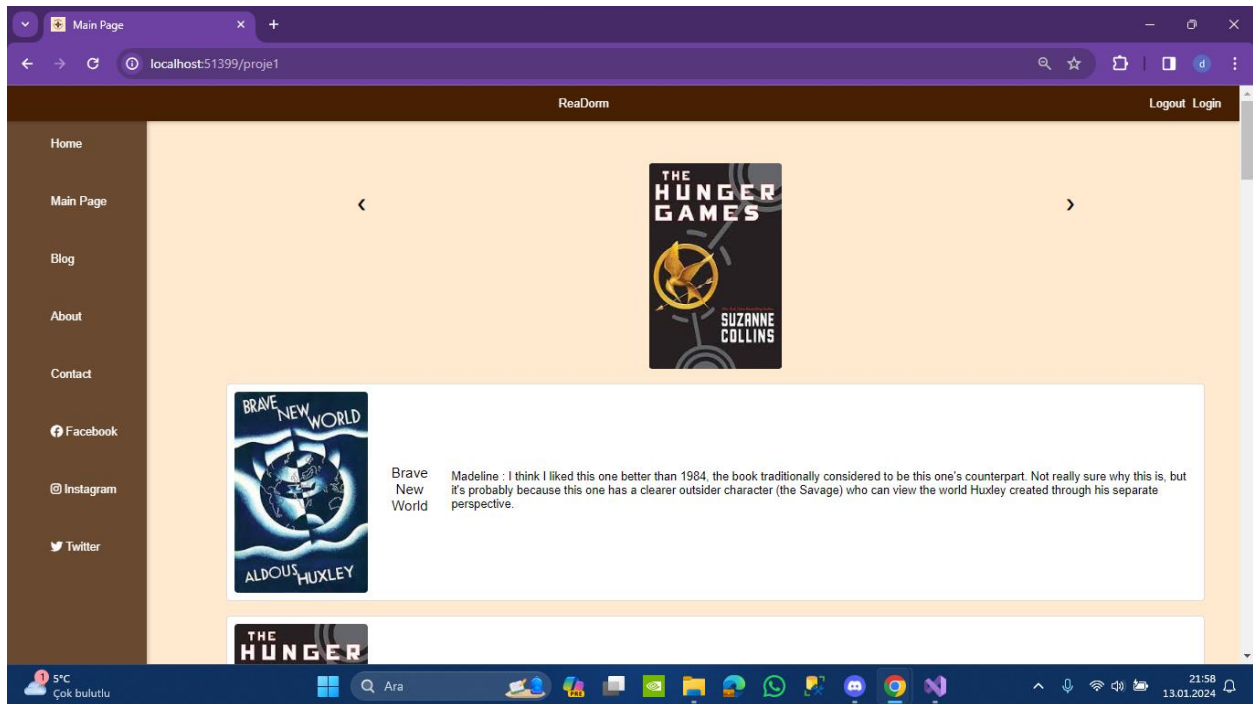
    function updateSliderValue(value) {

        document.getElementById("sliderValue").innerText = "Give us a rating: " + value;

    }

</script>
```

We made a carousel to show our books. The images change when the user clicks the buttons < or >.



Here is the style code:

```
.carousel-container {  
    width: 182px;  
    margin: auto;  
    overflow: hidden;  
}  
.carousel {  
    display: flex;  
    transition: transform 0.5s ease-in-out;  
}  
.carousel img {  
    width: 100%;  
    height: auto;  
}
```

```

.prev, .next {
  cursor: pointer;
  position: absolute;
  top: 20%;
  right: 70%;
  width: auto;
  margin-top: -25px;
  padding: 16px;
  color: black;
  font-weight: bold;
  font-size: 20px;
  transition: 0.6s ease;
  border-radius: 0 3px 3px 0;
  background-color: #ffeacf;
}

.next {
  right: 0;
  left: 85%;
  border-radius: 3px 0 0 3px;
}

.prev:hover, .next:hover {
  background-color: #ffeacf;
}

```

And here is the body code:

```

<div class="carousel-container">
  <div class="carousel">
    
    
    
  </div>
</div>

```

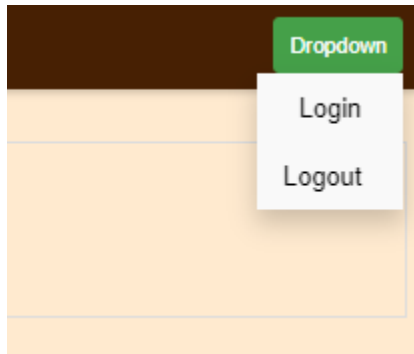
```

        
        
    </div>
    <div class="prev" onclick="prevSlide()">&#10094;</div>
    <div class="next" onclick="nextSlide()">&#10095;</div>
</div>
<script>
    let currentIndex = 0;
    const totalSlides = document.querySelectorAll('.carousel img').length;
    function showSlide(index) {
        const carousel = document.querySelector('.carousel');
        const slideWidth = document.querySelector('.carousel img').clientWidth;
        const newPosition = -index * slideWidth;
        carousel.style.transform = translateX(${newPosition}px);
        currentIndex = index;
    }
    function nextSlide() {
        currentIndex = (currentIndex + 1) % totalSlides;
        showSlide(currentIndex);
    }
    function prevSlide() {
        currentIndex = (currentIndex - 1 + totalSlides) % totalSlides;
        showSlide(currentIndex);
    }
</script>

```

## 2. Dropdown

Here is our dropdown in About page.



Here is the style code:

```
.dropdown {  
    position: relative;  
    display: inline-block;  
}  
.dropdown-button {  
    background-color: #1F4502;  
    color: white;  
    padding: 10px;  
    border: none;  
    cursor: pointer;  
}  
.dropdown-content {  
    display: none;  
    position: absolute;  
    background-color: #f9f9f9;  
    box-shadow: 0 8px 16px rgba(0, 0, 0, 0.2);  
    z-index: 1;  
    right: 0; /* Position the dropdown to the right */  
}  
  
.dropdown-content a {  
    color: black;
```

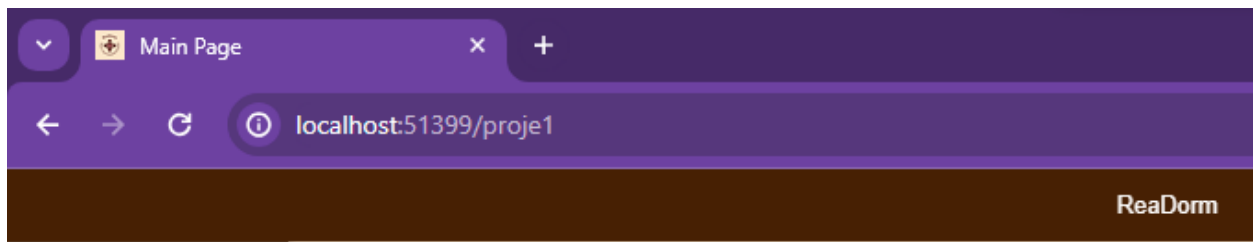
```
padding: 12px 16px;
text-decoration: none;
display: block;
}
.dropdown-content a:hover {
background-color: #ddd;
}
.dropdown:hover .dropdown-content {
display: block;
}
```

Here is the body code:

```
<header>
  <div id="text">ReaDorm</div>
  <div class="dropdown">
    <button class="dropdown-button">Dropdown</button>
    <div class="dropdown-content">
      <a href="#" onclick="confirmLoginandout()">Login</a>
      <a href="#" onclick="confirmLogout()">Logout</a>
    </div>
  </div>
</div>
</header>
```

### **3.Favicon**

We used our logo as a favicon.

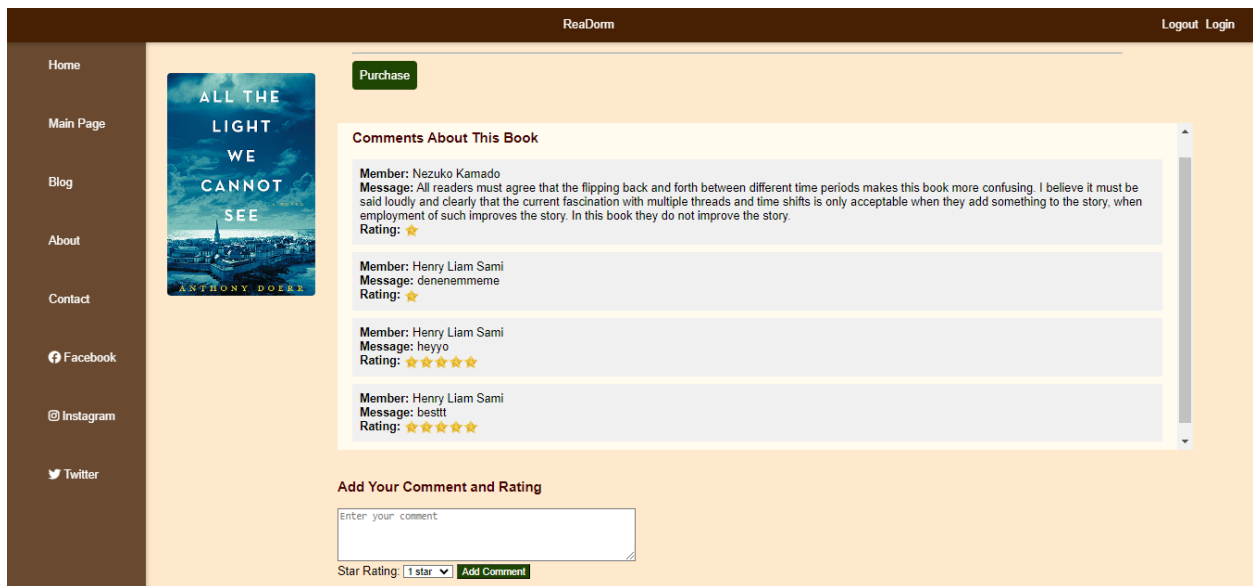


Here is the code:

```
<link rel="icon" href="readormamblem.jpg" type="image/x-icon">
```

#### 4. 5-star rating

We made a rating system for users, so that users can rate books.



Here is the code:

```
<form id="commentForm" runat="server">
```

```
    <textarea id="commentMessage1" name="commentMessage" rows="4" cols="50"
placeholder="Enter your comment" runat="server"></textarea>
```

```
<br>
```

```
<label for="starRating1" >Star Rating:</label>
```

```
<select id="starRating1" runat="server" name="starRating">
```

```
    <option value="1">1 star</option>
```

```
    <option value="2">2 stars</option>
```

```
    <option value="3">3 stars</option>
```



```

        <option value="4">4 stars</option>
        <option value="5">5 stars</option>
    </select>

    <asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Add Comment"
    style="background-color: #1F4502; color: #ffff;" />

    <br>
</form>

```

Here is the cs code:

```

private void LoadComments(int bookId)
{
    // Use ADO.NET to fetch comments and member information from the database based on the
    book ID

    using (SqlConnection connection = new SqlConnection(connectionString))
    {
        connection.Open();

        // Assuming Comment table has fields comment_id, comment_message, star_rating, and
        MEMBER_ID

        // Also assuming Member table has fields member_id, memberf_name, memberm_name,
        memberl_name

        string query = "SELECT c.comment_message, c.star_rating, m.memberf_name,
        m.memberm_name, m.memberl_name " +
            "FROM Comment c " +
            "JOIN Member m ON c.MEMBER_ID = m.member_id " +
            "WHERE c.BOOK_ID = @BookId";

        using (SqlCommand command = new SqlCommand(query, connection))
        {
            command.Parameters.AddWithValue("@BookId", bookId);

            using (SqlDataReader reader = command.ExecuteReader())

```

```

{
    while (reader.Read())
    {
        // Extract data from the reader
        string commentMessage = reader["comment_message"].ToString();
        string starRating = reader["star_rating"].ToString();
        string memberFirstName = reader["memberf_name"].ToString();
        string memberMiddleName = reader["memberm_name"].ToString();
        string memberLastName = reader["memberl_name"].ToString();

        // Concatenate member name
        string memberFullName = $"{memberFirstName} {memberMiddleName}
{memberLastName}".Trim();

        // Create comment blocks and add them to the page
        string commentBlockHtml = $"<div class='comment' style='background-color:
#f0f0f0; padding: 10px; margin-bottom: 10px;'>" +
            $"<strong>Member:</strong> {memberFullName} <br>" +
            $"<strong>Message:</strong> {commentMessage} <br>" +
            $"<strong>Rating:</strong> {GenerateStarHtml(starRating)}" +
            $"</div>";

        // You can create HTML elements dynamically or update existing elements
        // For simplicity, let's assume there's a <div> with the id "commentsBlock" on your
page
        commentsBlock.InnerHtml += commentBlockHtml;
    }
}
}
}
}
}

```

```

string GenerateStarHtml(string starRating)
{
    int ratingValue;
    if (int.TryParse(starRating, out ratingValue))
    {
        // Assuming you have star images named "star.png"
        string starHtml = string.Concat(Enumerable.Repeat("<img src='star.png' alt='star'
style='width: 20px;'>", ratingValue));
        return starHtml;
    }
    else
    {
        return "Invalid Rating";
    }
}

private void InsertComment(int commentId, int starRating, string commentMessage, int bookId,
int memberId)
{
    // Assuming you have a method or use an ORM to handle database operations
    // Replace the following line with your actual database insertion logic
    // Make sure to use parameterized queries to prevent SQL injection
    string insertQuery = "INSERT INTO Comment(comment_id, star_rating,
comment_message, BOOK_ID, MEMBER_ID) " +
        "VALUES (@commentId, @starRating, @commentMessage, @bookId,
@memberId)";

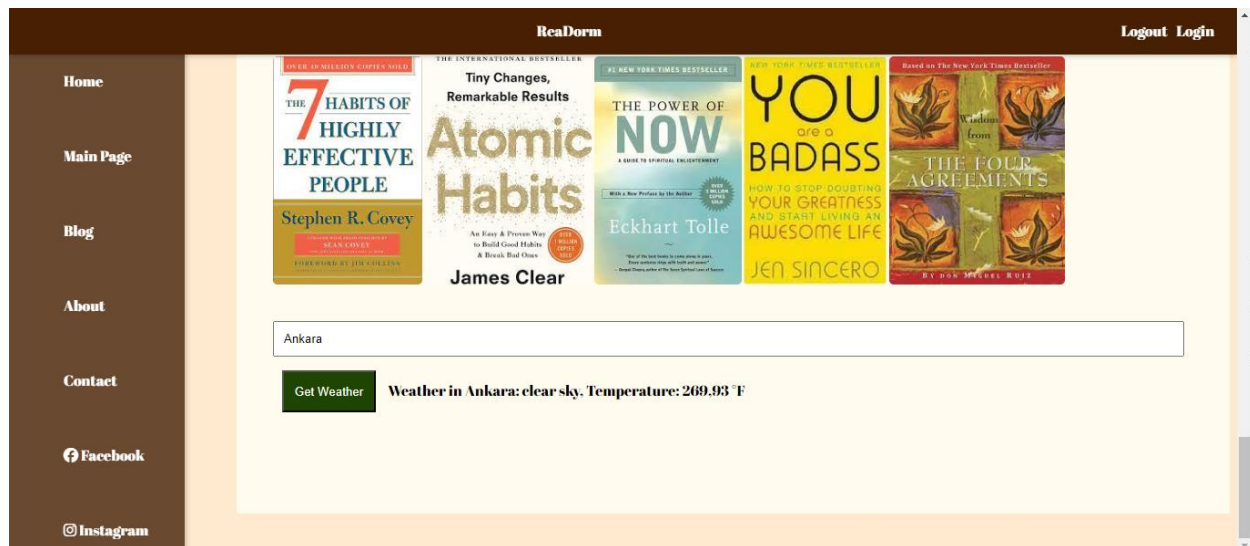
    // Execute the insertion query using your database connection
    // Make sure to handle exceptions and provide proper error handling
    // This is a simplified example, and you should adapt it to your specific database access
    mechanism
    using (SqlConnection connection = new SqlConnection(connectionString))
    {

```

```
connection.Open();
using (SqlCommand command = new SqlCommand(insertQuery, connection))
{
    command.Parameters.AddWithValue("@commentId", commentId);
    command.Parameters.AddWithValue("@starRating", starRating);
    command.Parameters.AddWithValue("@commentMessage", commentMessage);
    command.Parameters.AddWithValue("@bookId", bookId);
    command.Parameters.AddWithValue("@memberId", memberId);
    command.ExecuteNonQuery();
}
}
```

## **5.API-interaction**

We made an API interaction about weather in our Home page.



Here is the script code:

```
function getWeather(city) {
    $.ajax({
        url: "http://localhost:59713/api/values/weather?city=" + city, // Replace "port" with your
        // actual port number
        type: "GET",
        success: function (data) {
            // Handle the weather data here
            displayWeather(data);
        },
        error: function (error) {
            console.log("Error fetching weather data: " + error.statusText);
        }
    });
}

function displayWeather(weatherData) {
    // Assuming the weatherData structure includes city, weather_description, and temperature
    var weatherInfo =
    <h2>Weather in ${weatherData.city}</h2>
```

```

        <p>Description: ${weatherData.weather_description}</p>
        <p>Temperature: ${weatherData.temperature} °C</p>
    ;

    // Display the weather information in the weatherInfo div
    $("#weatherInfo").html(weatherInfo);
}
function clearTextBoxContent() {
    TextBoxCity.value = "";
}

```

Here is the body code:

```

</li><asp:TextBox ID="TextBoxCity" runat="server" Text="Enter your City"
onfocus="clearTextBoxContent();"></asp:TextBox>

<asp:Button ID="Button1" runat="server" OnClick="Button1_Click" Text="Get Weather"
Width="103px" Height="46px" Style="background-color: #1F4502; color: white; margin-left:
10px;" />

<asp:Label ID="LabelResult" runat="server" Text="Here is the Weather" Style="margin-left:
10px;"></asp:Label>

</li>

```

Here is the cs code:

```

using Newtonsoft.Json.Linq;
using System;
using System.Collections.Generic;
using System.Linq;
using System.Net.Http;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

```

```

public partial class pagehome : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        // Get the city from the user input
        string city = TextBoxCity.Text; // Replace TextBoxCity with the actual ID of your TextBox

        // Call the function to get weather information
        GetWeather(city);
    }

    private void GetWeather(string city)
    {
        try
        {

            string apiKey = "8d3b4bf3bad6533879dcdf0ef8abc083";
            string baseUrl = "http://api.openweathermap.org/data/2.5/weather";
            string apiUrl = $"{baseUrl}?q={city}&appid={apiKey}";

            using (HttpClient client = new HttpClient())
            {
                HttpResponseMessage response = client.GetAsync(apiUrl).Result;

                if (response.IsSuccessStatusCode)

```

```

{
    string jsonResponse = response.Content.ReadAsStringAsync().Result;
    dynamic data = JObject.Parse(jsonResponse);

    string weatherDescription = data.weather[0].description;
    double temperature = data.main.temp;

    // Update
    LabelResult.Text = $"Weather in {city}: {weatherDescription}, Temperature:
{temperature} °F";
}
else
{
    string errorMessage = $"Error from OpenWeatherMap API:
{response.ReasonPhrase}";
    // Handle the error
    LabelResult.Text = errorMessage;
}
}
}
catch (Exception ex)
{
    // Handle exception
    LabelResult.Text = $"Error fetching data: {ex.Message}";
}
}
}

```