

Internet Application Development

PROBLEM STATEMENT:

Consider the project database designed and implemented during previous semester i.e. Fall 2024. Its implementation was done using structured query language during previous semester. Try to recall major relations in your project database. You already have its report in printed form.

There is a need to implement a web based solution for above mentioned database. The web based solution must incorporate various functionalities of your project.

- (1) Registration of Student/Patient/Passenger/Customer, or whatever is applicable in your project.
- (2) Search facilities including partial matches
- (3) Any other project specific functionalities
- (4) Role based access control
- (5) Payment system (if required)

As a first step design above mentioned (i) to (v) user interfaces using paper and pencil.

Next write appropriate html for creating (i) to (v) user interface prototypes.

Create links for navigation among above pages.

Design a menu using list and styles.

Add help pages for user guidance.

Either use table for layout or may opt for flow based layout.

Test user interface prototypes in browser.

Experiment with style sheets.

SOLUTION:

Main Menu

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default.aspx.vb"
Inherits="_Default" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>MovieRental System</title>
```

```
  <style>
```

```
    body { font-family: Arial; background: #f4f4f4; padding: 20px; }
```

```
    ul.menu {
```

```
      list-style-type: none;
```

```
      padding: 0;
```

```
      background-color: #333;
```

```
      overflow: hidden;
```

```
    }
```

```
    ul.menu li {
```

```
      float: left;
```

```
    }
```

```
    ul.menu li a {
```

```
      display: block;
```

```
      color: white;
```

```
      padding: 14px 20px;
```

```
      text-decoration: none;
```

```
    }
```

```
    ul.menu li a:hover {
```

```
      background-color: #111;
```

```
    }
```

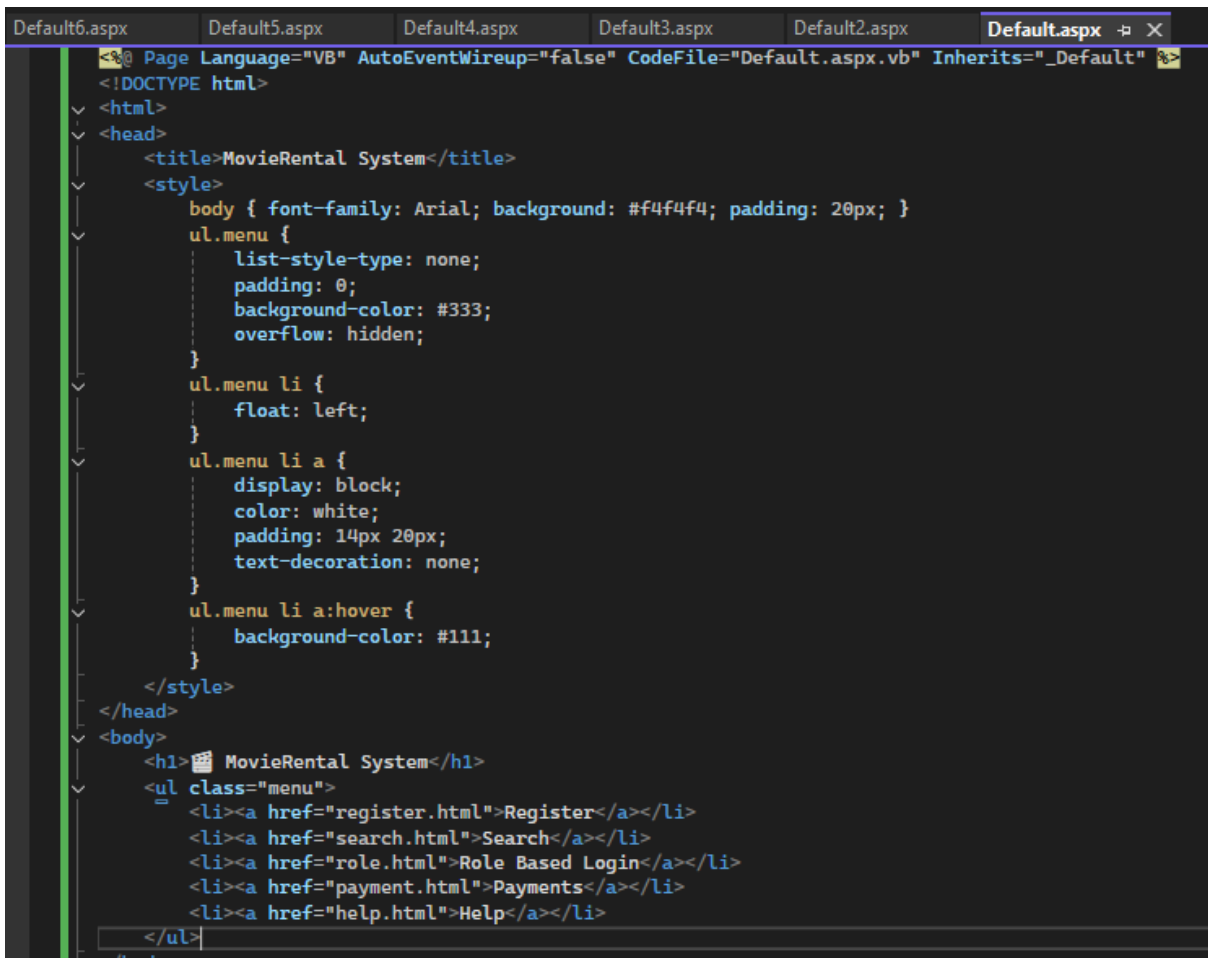
```
</style>
```

```

</head>
<body>
  <h1><img alt="Movie icon" data-bbox="191 143 214 158"/> MovieRental System</h1>
  <ul class="menu">
    <li><a href="register.html">Register</a></li>
    <li><a href="search.html">Search</a></li>
    <li><a href="role.html">Role Based Login</a></li>
    <li><a href="payment.html">Payments</a></li>
    <li><a href="help.html">Help</a></li>
  </ul>
</body>
</html>

```

Code Snippets:

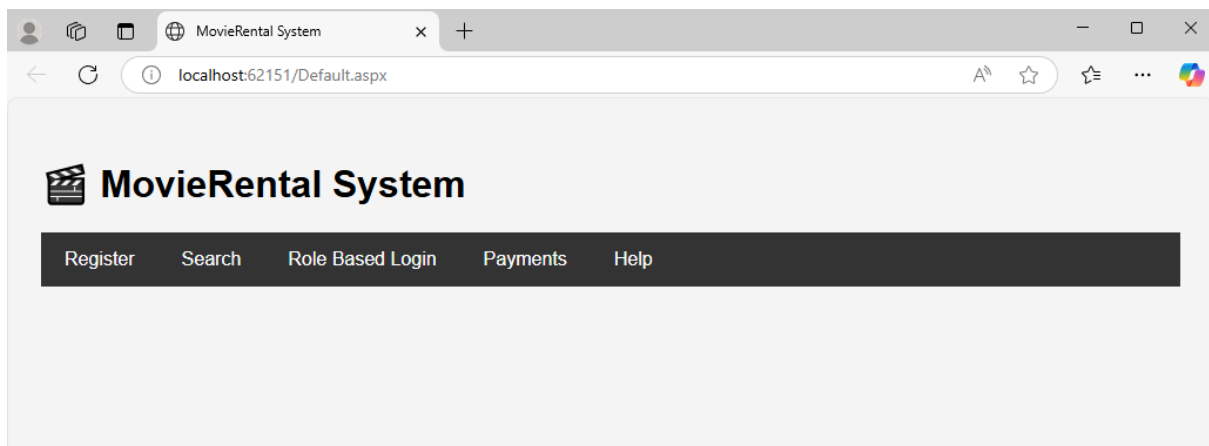


```

Default6.aspx  Default5.aspx  Default4.aspx  Default3.aspx  Default2.aspx  Default.aspx
<@ Page Language="VB" AutoEventWireup="false" CodeFile="Default.aspx.vb" Inherits="_Default" >
<!DOCTYPE html>
<html>
<head>
  <title>MovieRental System</title>
  <style>
    body { font-family: Arial; background: #f4f4f4; padding: 20px; }
    ul.menu {
      list-style-type: none;
      padding: 0;
      background-color: #333;
      overflow: hidden;
    }
    ul.menu li {
      float: left;
    }
    ul.menu li a {
      display: block;
      color: white;
      padding: 14px 20px;
      text-decoration: none;
    }
    ul.menu li a:hover {
      background-color: #111;
    }
  </style>
</head>
<body>
  <h1><img alt="Movie icon" data-bbox="241 801 264 816"/> MovieRental System</h1>
  <ul class="menu">
    <li><a href="register.html">Register</a></li>
    <li><a href="search.html">Search</a></li>
    <li><a href="role.html">Role Based Login</a></li>
    <li><a href="payment.html">Payments</a></li>
    <li><a href="help.html">Help</a></li>
  </ul>
</body>

```

Output:



Customer Registration

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default2.aspx.vb"
Inherits="Default2" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head><title>Register Customer</title></head>
```

```
<body>
```

```
    <h2>Customer Registration</h2>
```

```
    <form method="post">
```

```
        <label>Full Name:</label><br><input type="text" name="name"><br>
```

```
        <label>Email:</label><br><input type="email" name="email"><br>
```

```
        <label>Phone:</label><br><input type="text" name="phone"><br>
```

```
        <label>Address:</label><br><input type="text" name="address"><br>
```

```
        <input type="submit" value="Register">
```

```
    </form>
```

```
    <a href="index.html">Back to Home</a>
```

```
</body>
```

```
</html>
```

Code Snippets:

```
Default6.aspx  Default5.aspx  Default4.aspx  Default3.aspx  Default2.aspx  Default.aspx
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default2.aspx.vb" Inherits="Default2" %>

<!DOCTYPE html>
<html>
<head><title>Register Customer</title></head>
<body>
  <h2>Customer Registration</h2>
  <form method="post">
    <label>Full Name:</label><br><input type="text" name="name"><br>
    <label>Email:</label><br><input type="email" name="email"><br>
    <label>Phone:</label><br><input type="text" name="phone"><br>
    <label>Address:</label><br><input type="text" name="address"><br>
    <input type="submit" value="Register">
  </form>
  <a href="index.html">Back to Home</a>
</body>
</html>
```

Output:

Customer Registration

Full Name:

Email:

Phone:

Address:

[Back to Home](#)

Search with Partial Matches

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default3.aspx.vb"
Inherits="Default3" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head><title>Search Rentals</title></head>
```

```
<body>
```

```
  <h2>Search Movie Rentals</h2>
```

```

<form method="get">

    <label>Enter Customer Name or Movie Title:</label><br>

    <input type="text" name="query" placeholder="e.g. Joh, Spi, Har...">

    <input type="submit" value="Search">

</form>

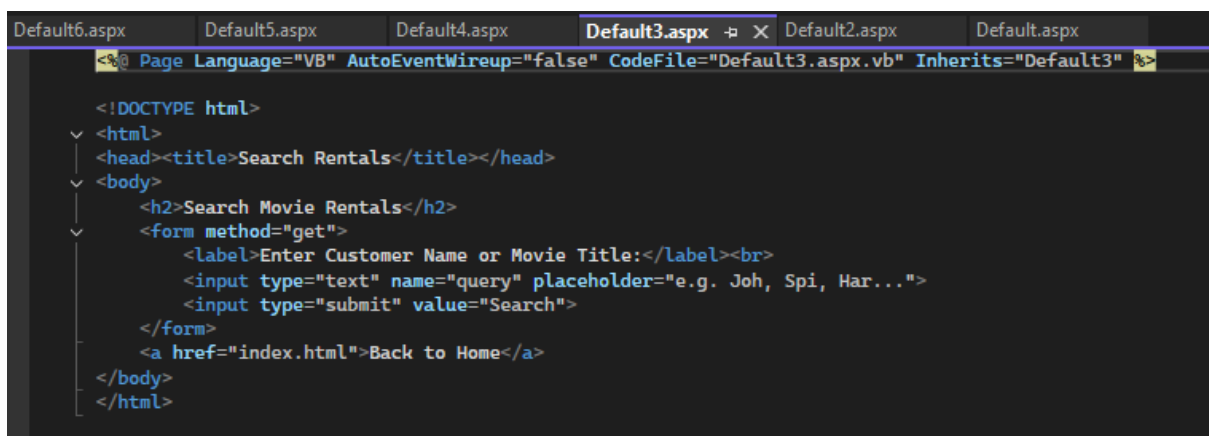
<a href="index.html">Back to Home</a>

</body>

</html>

```

Code Snippets:



```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default3.aspx.vb" Inherits="Default3" %>

<!DOCTYPE html>
<html>
<head><title>Search Rentals</title></head>
<body>
    <h2>Search Movie Rentals</h2>
    <form method="get">
        <label>Enter Customer Name or Movie Title:</label><br>
        <input type="text" name="query" placeholder="e.g. Joh, Spi, Har...">
        <input type="submit" value="Search">
    </form>
    <a href="index.html">Back to Home</a>
</body>
</html>

```

Output:

Search Movie Rentals

Enter Customer Name or Movie Title:

[Back to Home](#)

Role-Based Login

```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default4.aspx.vb"
Inherits="Default4" %>

```

```

<!DOCTYPE html>

```

```

<html>
<head><title>Login</title></head>
<body>
  <h2>Role Based Login</h2>
  <form method="post">
    <label>Username:</label><br><input type="text" name="user"><br>
    <label>Password:</label><br><input type="password" name="pass"><br>
    <label>Select Role:</label><br>
    <select name="role">
      <option>Admin</option>
      <option>Customer</option>
      <option>Cashier</option>
    </select><br>
    <input type="submit" value="Login">
  </form>
  <a href="index.html">Back to Home</a>
</body>
</html>

```

Code Snippets:

```

Default6.aspx  Default5.aspx  Default4.aspx  Default3.aspx  Default2.aspx  Default.aspx
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default4.aspx.vb" Inherits="Default4" %>
<!DOCTYPE html>
<html>
<head><title>Login</title></head>
<body>
  <h2>Role Based Login</h2>
  <form method="post">
    <label>Username:</label><br><input type="text" name="user"><br>
    <label>Password:</label><br><input type="password" name="pass"><br>
    <label>Select Role:</label><br>
    <select name="role">
      <option>Admin</option>
      <option>Customer</option>
      <option>Cashier</option>
    </select><br>
    <input type="submit" value="Login">
  </form>
  <a href="index.html">Back to Home</a>
</body>
</html>

```

Output:

Role Based Login

Username:

Password:

Select Role:

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Make a Payment

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default5.aspx.vb"
Inherits="Default5" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head><title>Make Payment</title></head>
```

```
<body>
```

```
    <h2>Make a Payment</h2>
```

```
    <form method="post">
```

```
        <label>Customer ID:</label><br><input type="number"
name="customer_id"><br>
```

```
        <label>Rental ID:</label><br><input type="number" name="rental_id"><br>
```

```
        <label>Amount:</label><br><input type="text" name="amount"><br>
```

```
        <label>Date:</label><br><input type="date" name="date"><br>
```

```
        <input type="submit" value="Submit Payment">
```

```
    </form>
```

```
    <a href="index.html">Back to Home</a>
```

```
</body>
```

```
</html>
```

Code Snippets:

```
Default6.aspx  Default5.aspx  Default4.aspx  Default3.aspx  Default2.aspx  Default.aspx
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default5.aspx.vb" Inherits="Default5" %>

<!DOCTYPE html>
<html>
<head><title>Make Payment</title></head>
<body>
<h2>Make a Payment</h2>
<form method="post">
<label>Customer ID:</label><br><input type="number" name="customer_id"><br>
<label>Rental ID:</label><br><input type="number" name="rental_id"><br>
<label>Amount:</label><br><input type="text" name="amount"><br>
<label>Date:</label><br><input type="date" name="date"><br>
<input type="submit" value="Submit Payment">
</form>
<a href="index.html">Back to Home</a>
</body>
</html>
```

Output:

Make a Payment

Customer ID:

Rental ID:

Amount:

Date:

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Help Page

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default6.aspx.vb"
Inherits="Default6" %>
```

```
<!DOCTYPE html>
<html>
<head><title>Help - MovieRental</title></head>
<body>
<h2>Help Center</h2>
```

```

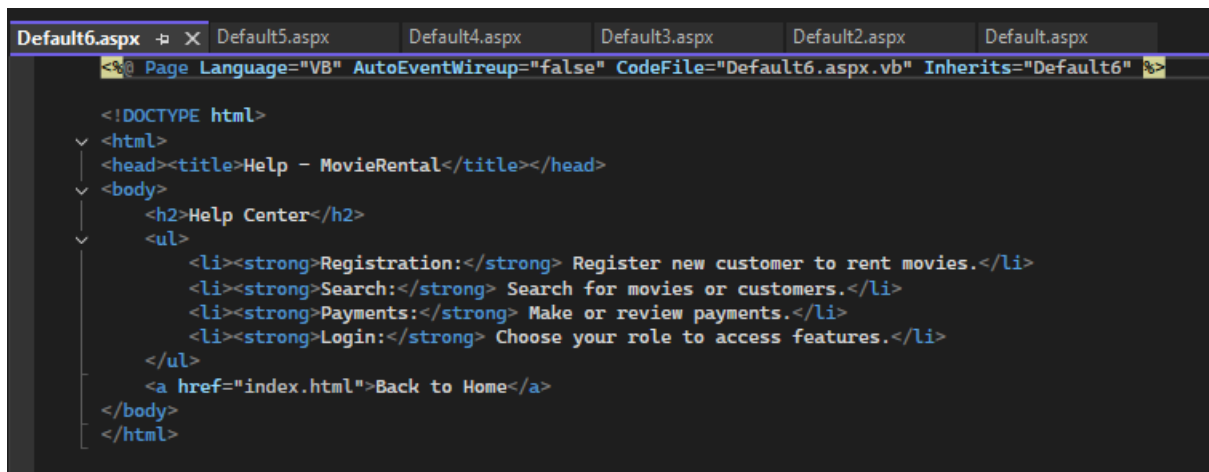
<ul>
    <li><strong>Registration:</strong> Register new customer to rent movies.</li>
    <li><strong>Search:</strong> Search for movies or customers.</li>
    <li><strong>Payments:</strong> Make or review payments.</li>
    <li><strong>Login:</strong> Choose your role to access features.</li>
</ul>

<a href="index.html">Back to Home</a>

</body>
</html>

```

Code Snippets:



```

Default6.aspx  X  Default5.aspx  Default4.aspx  Default3.aspx  Default2.aspx  Default.aspx
<% Page Language="VB" AutoEventWireup="false" CodeFile="Default6.aspx.vb" Inherits="Default6" %>

<!DOCTYPE html>
<html>
<head><title>Help - MovieRental</title></head>
<body>
    <h2>Help Center</h2>
    <ul>
        <li><strong>Registration:</strong> Register new customer to rent movies.</li>
        <li><strong>Search:</strong> Search for movies or customers.</li>
        <li><strong>Payments:</strong> Make or review payments.</li>
        <li><strong>Login:</strong> Choose your role to access features.</li>
    </ul>
    <a href="index.html">Back to Home</a>
</body>
</html>

```

Output:

Help Center

- **Registration:** Register new customer to rent movies.
- **Search:** Search for movies or customers.
- **Payments:** Make or review payments.
- **Login:** Choose your role to access features.

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