|  |  |  |
| --- | --- | --- |
| **Course Title:** | Web Engineering | **Course Code**: SEL 310 |
| **Course Instructor:** | **Engr. Adnan ur Rehman** | **Class**: BSE-5(A/B) |
| **Lab Engineer:** | **Engr. Rehan Baig** | **Name: Muhammad Adeel** |
| **Max. Marks:** | 12 Marks | **Reg no: 69986** |
| **Time:**  **Note:** | **120** Min |  |

# [Marks 12 – Implementation (9) + Viva (3)]



BAHRIA UNIVERSITY (KARACHI CAMPUS)

OPEN ENDED LAB 1 – Fall 2022 (CLO-1)

* **The probability of similarity is 0% hence Copied OEL will be marked as ZERO**
* Save Document (Containing Screenshot of Code and Result) of your solution with your name+enrollment like xyz015
* **Must Upload your code folder to Github Public Repository and share your repo URL in doc file.**

**Scenario:** The **US** based company **Rently** is planning to renovate its **web-based** product. Which

**specifications** listed below.

# Login form

Username (**doesn’t accept any special chars and numbers, Only accept alphabets**), Email (**Only accept valid email address format**),

# Password (Contains at least 5 characters including 1 capital letter, 1 special character)

* **Dashboard**

Dashboard Contains following components

* 1. **Sidebar** with following **pages** (**Dashboard, Pay/CollectRent**)
  2. **TopNavigationBar** with Rently logo on left and Logged in User pic on right side.
  3. **Dashboard page** contains 3 Tabs 1. Products for Rent, 2. My Products to Rent,

3. My Booked/Rented products

**Tab 1 (Products for Rent):** Contains list of all available products for rent with (Product Picture, Rent)

**Tab 2 (My Products to Rent):** Contains your products that you have added to rent also contains a button for adding new Product to rent with functionality. **You can also add new product to rent in this Tab**. This tab must contain complete functionality to add a new product to rent.

**Tab 3 (My Booked/Rented Products):** This Contains the list or grid of products that you have rented as a tenant and

another grid or list as well for the products you rented as an owner of product.

# Pay/CollectRent

This page contains 2 separate lists or grids 1 is for the products for which you have to

collect rent you were the owner of that product with a button saying **collect rent** along with each product in the grid/list.

**2nd** List or grid is for the products that you rented as a tenant contains a **pay rent** button along with each product in the gird/list.

# Important Note

You as a Web Developer responsible for these pages design. The design must be mobile friendly and gives a look and feel of mobile application when open in mobile phone. Design must adopt every screen. Design contains relative graphics for making catchy and easy to use.

You are free to use any JS plugin and also you can create dummy data in JS where needed. All the validations and dummy data must reside in client-side JS.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* GOOD LUCK \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**Web Engineering OEL Rubrics**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CATEGORY** | **Excellent (1)** | **Good (0.5)** | **Poor (0)** | **Marks** |
| Layout | The Web site has an exceptionally attractive and usable layout. It is easy to locate all- important elements. Layout must include all  semantic tags | The Web pages have an attractive and usable layout. It is easy to locate all important elements. | The Web pages have a usable layout, but may appear busy or boring. It is easy to locate most of the important elements. |  |
| Field Selection | Approximately 5  different field and more included in webpage | Approximately 4  different field is included in webpage  And 1 or 2 same types of filed | Approximately 2  different field is included in webpage And 2 or 3 same types of filed |  |
| Html Validation | Html Validation was done on whole form | Html Validation was done on some fields | Html Validation was done on few fields |  |
| Color | Colors of background, fonts, unvisited and visited links form a pleasing palette, do not detract from the content, and are consistent across page. | Colors of background, fonts, unvisited and visited links do not detract from the content, and are consistent across page. | Colors of background, fonts, unvisited and visited links do not detract from the content. |  |
| Responsiveness | Student uses a style sheet to define attributes (along with some inline style), which makes page attractive looking, | Student uses a style sheet, however there is some inconsistencies in relation to the styles on some elements on the webpage. | Student uses a style sheet; however, it is not consistent on page, which disrupts consistency of page. |  |
| Graphics and images | Graphics are related to the theme or purpose of the site, are of high quality and enhance reader interest or understanding. Images include animation and other styling | Graphics are related to the theme or purpose of the site, are of good quality and enhance reader interest or understanding. Limited animation applied on images | Graphics are of fair design, unoriginal, with elements that need enhancing. |  |
| Java script Validation | All Fields include Java script validation | Majority of fields include Java Script validation | Few Fields include Java Script validation |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Java script functions Implementation | Use of different mathematical function and string function used in a web page as discussed in class | Use of different mathematical function in a web page as discussed in class | Use of different string function used in a web page as discuss in class |  |
| Manipulation operation | Manipulation operation is performed on all important fields professionally | Manipulation operation is performed on numeric fields professionally | Manipulation operation is  performed on string fields professionally |  |
| **Total Marks** = **9 marks** for Implementation / Application + **3 marks** for Viva = **12** | | | | |

**GITHUB REPOSITORY**

[**https://github.com/muhammadadeel147/WebengineeringOEL1.git**](https://github.com/muhammadadeel147/WebengineeringOEL1.git)

**Login Details:**

**Username: Adeel**

**Email:** [**abc@gmail.com**](mailto:abc@gmail.com)

**Password:A@123**

# Login form

# CODE:

# 

# CSS

\*{

    margin: 0;

    padding: 0;

    font-family: sans-serif;

}

.login-container{

    width: 100%;

    height: 100vh;

    background-image:linear-gradient(rgba(0,0,0,0.6),rgba(0,0,0,0.6)) ,url(/9.jpg);

    background-position: center;

    background-size: cover;

}

.login-box{

width: 300px;

height: 350px;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%,-50%);

color: #fff;

padding: 80px 30px;

border-radius: 10px;

background: rgba(0,0,0,0.6);

}

.logo{

width: 120px;

height: 120px;

position: absolute;

top: -60px;

left: calc(50% - 60px);

}

.login-box h1{

text-align: center;

font-size: 40px;

}

.login-box p{

font-weight: bold;

margin-top: 20px;

}

.login-box input[type="text"],input[type="password"],input[type="email"]{

width: 100%;

margin-top: 10px;

border-bottom: 1px solid #fff;

border-top: none;

border-left: none;

border-right: none;

background: transparent;

color: silver;

font-size: 17px;

font-weight: 500;

outline: none;

line-height: 40px;

}

.login-box input[type="submit"]{

width: 100%;

border-radius: 30px;

margin: 30px 0 30px;

padding: 10px;

background-color: rgb(29, 136, 223) ;

outline: none;

color: #fff;

border: none;

font-size: 25px;

font-weight: 500;

cursor: pointer;

transition: 0.7s ease;

}

.login-box input[type="submit"]:hover{

background-color: orange;

color: #000;

}

.login-box a{

text-decoration: none;

color: #fff;

transition: 0.5s ease-in-out;

}

.login-box a:hover{

color: rgb(24, 76, 219);

}

# JAVASCRIPT

# 

# OUTPUT

# 

# Dashboard

# Code:

<!doctype html>

<html lang="en">

  <head>

    <!-- Required meta tags -->

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->

    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">

    <title>Hello, world!</title>

  </head>

  <body>

    <link href='https://unpkg.com/boxicons@2.0.7/css/boxicons.min.css' rel='stylesheet'>

     <meta name="viewport" content="width=device-width, initial-scale=1.0">

   </style>

  <div class="sidebar">

    <div class="logo-details">

      <i class='bx bxl-c-plus-plus'></i>

      <span class="logo\_name">Adeel</span>

    </div>

      <ul class="nav-links">

        <li>

          <a href="dashboard.html" class="active">

            <i class='bx bx-grid-alt' ></i>

            <span class="links\_name">Dashboard</span>

          </a>

        </li>

        <li>

          <a href="/payrent.html">

            <i class='bx bx-box' ></i>

            <span class="links\_name">Pay/Collect Rent</span>

          </a>

        </li>

        <li>

  </div>

  <section class="home-section">

    <nav>

      <div class="sidebar-button">

        <i class='bx bx-menu sidebarBtn'></i>

        <span class="dashboard">Dashboard</span>

      </div>

      <ul class="nav justify-content-center">

        <li class="nav-item">

          <a class="nav-link active" aria-current="page" href="#card">Product for Rent</a>

        </li>

        <li class="nav-item">

          <a class="nav-link" href="/rentproduct.html">My Product to Rent</a>

        </li>

        <li class="nav-item">

          <a class="nav-link" href="booked.html">My Booked Products</a>

        </li>

      <div class="profile-details">

        <img src="8.png" alt="">

        <span class="admin\_name">Adeel</span>

        <i class='bx bx-chevron-down' ></i>

      </div>

    </nav>

<div id="card">

    <div class="card-group">

        <div class="card">

          <img src="/2.jpeg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">Mobile</h5>

            <p class="card-text">20000 PKR</p>

          </div>

        </div>

        <div class="card">

          <img src="/1.jpg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">BMW CAR</h5>

            <p class="card-text">30000 PKR</p>

          </div>

        </div>

        <div class="card">

          <img src="/10.jpeg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">Gadget</h5>

            <p class="card-text">33333333 PKR</p>

          </div>

        </div>

      </div>

      <div class="card-group">

        <div class="card">

          <img src="1.jpg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">F1 Car</h5>

            <p class="card-text">20000 PKR</p>

          </div>

        </div>

        <div class="card">

          <img src="/3.jpg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">Vr</h5>

            <p class="card-text">30000 PKR</p>

          </div>

        </div>

        <div class="card">

          <img src="11.jpg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">House</h5>

            <p class="card-text">33333333 PKR</p>

          </div>

        </div>

      </div>

      <div class="card-group">

        <div class="card">

          <img src="/5.jpg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">F1 Car</h5>

            <p class="card-text">20000 PKR</p>

          </div>

        </div>

        <div class="card">

          <img src="/6.jpg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">House</h5>

            <p class="card-text">30000 PKR</p>

          </div>

        </div>

        <div class="card">

          <img src="/7.jpg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">House</h5>

            <p class="card-text">33333333 PKR</p>

          </div>

        </div>

      </div>

      <div class="card-group">

        <div class="card">

          <img src="/11.jpg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">House</h5>

            <p class="card-text">20000 PKR</p>

          </div>

        </div>

        <div class="card">

          <img src="/11.jpg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">House</h5>

            <p class="card-text">30000 PKR</p>

          </div>

        </div>

        <div class="card">

          <img src="/2.jpeg" class="card-img-top" alt="...">

          <div class="card-body">

            <h5 class="card-title">VR</h5>

            <p class="card-text">33333333 PKR</p>

          </div>

        </div>

      </div>

    </div>

  </section>

<!-- Optional JavaScript -->

    <!-- jQuery first, then Popper.js, then Bootstrap JS -->

    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.14.7/dist/umd/popper.min.js" integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>

<script src="/dashboard.js"></script>

</body>

</html>

# CSS:

/\* Googlefont Poppins CDN Link \*/

@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&display=swap');

\*{

margin: 0;

padding: 0;

box-sizing: border-box;

font-family: 'Poppins', sans-serif;

}

.sidebar{

position: fixed;

height: 100%;

width: 240px;

background: #0A2558;

transition: all 0.5s ease;

}

.sidebar.active{

width: 60px;

}

.sidebar .logo-details{

height: 80px;

display: flex;

align-items: center;

}

.sidebar .logo-details i{

font-size: 28px;

font-weight: 500;

color: #fff;

min-width: 60px;

text-align: center

}

.sidebar .logo-details .logo\_name{

color: #fff;

font-size: 24px;

font-weight: 500;

}

.sidebar .nav-links{

margin-top: 10px;

}

.sidebar .nav-links li{

position: relative;

list-style: none;

height: 50px;

}

.sidebar .nav-links li a{

height: 100%;

width: 100%;

display: flex;

align-items: center;

text-decoration: none;

transition: all 0.4s ease;

}

.sidebar .nav-links li a.active{

background: #081D45;

}

.sidebar .nav-links li a:hover{

background: #081D45;

}

.sidebar .nav-links li i{

min-width: 60px;

text-align: center;

font-size: 18px;

color: #fff;

}

.sidebar .nav-links li a .links\_name{

color: #fff;

font-size: 15px;

font-weight: 400;

white-space: nowrap;

}

.home-section{

position: relative;

background: #f5f5f5;

min-height: 100vh;

width: calc(100% - 240px);

left: 240px;

transition: all 0.5s ease;

}

.sidebar.active ~ .home-section{

width: calc(100% - 60px);

left: 60px;

}

.home-section nav{

display: flex;

justify-content: space-between;

height: 80px;

background: #fff;

display: flex;

align-items: center;

position: fixed;

width: calc(100% - 240px);

left: 240px;

z-index: 100;

padding: 0 20px;

box-shadow: 0 1px 1px rgba(0, 0, 0, 0.1);

transition: all 0.5s ease;

}

.sidebar.active ~ .home-section nav{

left: 60px;

width: calc(100% - 60px);

}

.home-section nav .sidebar-button{

display: flex;

align-items: center;

font-size: 24px;

font-weight: 500;

}

nav .sidebar-button i{

font-size: 35px;

margin-right: 10px;

}

.home-section nav .profile-details{

display: flex;

align-items: center;

background: #F5F6FA;

border: 2px solid #EFEEF1;

border-radius: 6px;

height: 50px;

min-width: 190px;

padding: 0 15px 0 2px;

}

.profile-details img{

width: 40px;

height: 40px;

}

/\* Responsive Media Query \*/

@media (max-width: 1240px) {

.sidebar{

width: 60px;

}

.sidebar.active{

width: 220px;

}

.home-section{

width: calc(100% - 60px);

left: 60px;

}

.sidebar.active ~ .home-section{

/\* width: calc(100% - 220px); \*/

overflow: hidden;

left: 220px;

}

.home-section nav{

width: calc(100% - 60px);

left: 60px;

}

.sidebar.active ~ .home-section nav{

width: calc(100% - 220px);

left: 220px;

}

}

# JavaScript:

  let sidebar = document.querySelector(".sidebar");

let sidebarBtn = document.querySelector(".sidebarBtn");

sidebarBtn.onclick = function() {

 sidebar.classList.toggle("active");

 if(sidebar.classList.contains("active")){

 sidebarBtn.classList.replace("bx-menu" ,"bx-menu-alt-right");

}else

 sidebarBtn.classList.replace("bx-menu-alt-right", "bx-menu");

}

# My Product to Rent:

      body {

  font: 300 16px/1.5 'Roboto', sans-serif;

  color: #333;

  background: #e3e9ff;

}

.container {

  margin: 0 auto;

  max-width: 640px;

  padding: 0 15px;

}

h1 {

  font-size: 24px;

  font-weight: 300;

}

p {

  margin: 0 0 15px;

}

input[type="text"] {

  width: 100%;

  height: 40px;

  border: 1px solid #ccc;

  background: #fff;

  padding: 10px;

  font: 300 16px/1.5 'Roboto', sans-serif;

  transition: border 0.3s linear;

}

input[type="text"]:focus {

  border-color: #4ac7be;

  outline: none;

}

.btn-primary {

  background: #4ac7be;

  border: none;

  padding: 10px;

  display: inline-block;

  vertical-align: top;

  width: 100%;

  height: 40px;

  color: #fff;

  cursor: pointer;

  font: 300 16px/1.5 'Roboto', sans-serif;

  transition: background 0.3s linear;

}

.btn-primary:hover {

  background: #097fb7;

}

.btn-primary:focus {

  outline: none;

}

.btn-icon {

  background: none;

  border: none;

  display: inline-block;

  vertical-align: top;

  color: #333;

  cursor: pointer;

  transition: background 0.3s linear, color 0.3s linear;

}

.btn-icon:focus {

  outline: none;

}

.btn-icon:before {

  font-family: 'Font Awesome 5 Free';

  font-weight: 900;

}

.btn-icon.remove:before {

  content: '\f2ed';

}

.btn-icon.down:before {

  content: '\f063';

}

.btn-icon.up:before {

  content: '\f062';

}

/\*

----------

\*/

.todoBlock {

  padding: 30px;

  margin: 30px 0;

  background: #fff;

  box-shadow: 5px 5px 20px -5px rgba(0, 0, 0, 0.2);

}

.todoBlock .titleHolder {

  margin: 0 0 30px;

}

/\*

list holder

-----------

\*/

.listHolder li {

  counter-increment: step-counter;

  overflow: hidden;

  padding: 0 0 20px 30px;

  position: relative;

}

.listHolder li:before {

  content: counter(step-counter);

  background: #4ac7be;

  color: #fff;

  font-size: 14px;

  padding: 0px 6px;

  border-radius: 3px;

  position: absolute;

  top: 0;

  left: 0;

}

.listHolder .listName {

  float: left;

}

.listHolder .btn-icon {

  float: right;

  margin: 0 0 0 20px;

}

/\*

form holder

-----------

\*/

.formHolder {

  margin: 0 -5px;

  overflow: hidden;

  position: relative;

}

.formHolder .col {

  float: left;

  width: 20%;

  padding: 0 5px;

}

.formHolder .col.big {

  width: 60%;

}

# Javascript:

  const toggleBtn = document.querySelector('#toggleBtn');

const divList = document.querySelector('.listHolder');

// action to be taken when clicked on hide list button

toggleBtn.addEventListener('click', () => {

  if (divList.style.display === 'none') {

    divList.style.display = 'block';

    toggleBtn.innerHTML = 'Hide List';

  } else {

    divList.style.display = 'none';

    toggleBtn.innerHTML = 'Show List';

  }

});

/\*

2. add list items

-----------------

\*/

// create variables

const addInput = document.querySelector('#addInput');

const addBtn = document.querySelector('#addBtn');

function addLists() {

  if (addInput.value === '') {

    alert('Enter the list name please!!!');

  } else {

    const ul = divList.querySelector('ul');

    const li = document.createElement('li');

    li.innerHTML = addInput.value;

    addInput.value = '';

    ul.appendChild(li);

    createBtn(li);

  }

}

// add list when clicked on add item button

addBtn.addEventListener('click', () => {

  addLists();

});

// add list when pressed enter

addInput.addEventListener('keyup', (event) => {

  if(event.which === 13) {

    addLists();

  }

});

/\*

3. create action buttons

------------------------

\*/

// create variables

const listUl = document.querySelector('.list');

const lis = listUl.children;

function createBtn(li) {

  // create remove button

  const remove = document.createElement('button');

  remove.className = 'btn-icon remove';

  li.appendChild(remove);

  // create down button

  const down = document.createElement('button');

  down.className = 'btn-icon down';

  li.appendChild(down);

  // create up button

  const up = document.createElement('button');

  up.className = 'btn-icon up';

  li.appendChild(up);

  return li;

}

// loop to add buttons in each li

for (var i = 0; i < lis.length; i++) {

  createBtn(lis[i]);

}

/\*

4. enabling button actions (to move item up, down or delete)

------------------------------------------------------------

\*/

divList.addEventListener('click', (event) => {

  if (event.target.tagName === 'BUTTON') {

    const button = event.target;

    const li = button.parentNode;

    const ul = li.parentNode;

    if (button.className === 'btn-icon remove') {

      ul.removeChild(li);

    } else if (button.className === 'btn-icon down') {

      const nextLi = li.nextElementSibling;

      if (nextLi) {

        ul.insertBefore(nextLi, li);

      }

    } else if (button.className === 'btn-icon up') {

      const prevLi = li.previousElementSibling;

      if (prevLi) {

        ul.insertBefore(li, prevLi);

      }

    }

  }

});

# Output:

# 

# My Product to rent:

# 

# My Booked Product:

# 

# 

# Pay /Collect Rent

# 

# 