

# ROLE BASED WEB APPLICATION

## . OVERVIEW

This is a simple login page built using HTML and CSS that allows users to log in with a specific role. Based on the role selected, users can access relevant functionalities within the system. The page includes fields for User ID, Password, and a dropdown menu for role selection (ADMIN, SALES MANAGER, LABOUR, HR MANAGER).

## SOME OF THE FEATURES ARE BELOW.

- User ID and Password Input Fields: Standard fields to allow users to enter their credentials.
- Role Selection Dropdown: Allows users to select their role from four available options.
  - Admin
  - Sales Manager
  - HR Manager
  - Labour
- Login Button: A button for submitting the login form.
- Role Descriptions: Below the form, a brief description of the functionalities available to each role is provided.

# **ROLES OF A FRONTEND DEVELOPER IN PROJECT**

## **1. Creating the User Interface (UI)**

- **HTML Structure:**
  - Build the basic HTML structure, including form fields for User ID and Password, a dropdown for role selection, and a submit button.
  - Ensure HTML elements are accessible.
- **Styling (CSS):**
  - Write CSS to style the login page so that it looks clean, modern, and professional.
  - Ensure the layout is responsive.
  - Add visual effects like button hover states to make the page interactive.

## **. Implementing Frontend Validation**

- **JavaScript for Form Validation:**
  - Use JavaScript to validate the form on the client side. For instance, check if all fields are filled in and if the user has selected a role before enabling the login button.
  - Display error messages if required fields are missing or if the user selects an invalid role.

## **. Error Handling and Feedback**

- **Error Display:**
  - Display user-friendly error messages if the form is submitted without selecting a role or if input fields are left blank.

## HTML STRUCTURE USED IN THE CODE

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
    <meta charset="UTF-8">
```

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

```
    <title>Role-Based Login</title>
```

```
    <style>
```

```
        /* Styles go here */
```

```
    </style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
    <h2>Company Role-Based Login</h2>
```

```
    <input type="text" class="input-field" placeholder="Enter User  
ID">
```

```
    <input type="password" class="input-field" placeholder="Enter  
Password">
```

```
    <select class="role-select">
```

```
        <option value="" disabled selected>Select Role</option>
```

```
        <option value="admin">Admin</option>
```

```
        <option value="sales">Sales Manager</option>
```

```
        <option value="hr">HR Manager</option>
```

```

        <option value="labour">Labour</option>
    </select>

    <button class="login-button">Login</button>

    <div class="role-description">
        <p>Select a role to log in and access the relevant
functionalities.</p>
        <p>Admins manage settings, Sales Managers access client data,
HR Managers manage employee info, and Labour personnel view
schedules.</p>
    </div>
</div>

</body>
</html>

```

This is the structure of the html code we used during the making of the web application. here, we have

1. the first thing we select here is the language is English.
2. then we go with the title of the project which is role based login
3. the heading of the screen goes with the company role based login.
4. the two input statements have been passed which is "enter userid" and the other one is "enter password".
5. the option bar has been placed for the selection of the roles .
6. at the last a login in button and the description.

## THE CSS STYLING OF THE PAGE

```
body {  
    font-family: Arial, sans-serif;  
    background-color: #dcc40b;  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    height: 100vh;  
    margin: 0;  
}
```

- . The body is styled with a yellow background and centered content using flexbox.
- . The page height is set to 100% of the viewport height (100vh), ensuring the content is vertically centered.

## THE INPUT FIELD STYLING

```
.input-field {  
    width: 100%;  
    padding: 10px;  
    margin: 8px 0;  
    border: 1px solid #ccc;  
    border-radius: 4px;  
    font-size: 16px;}
```

Both the **User ID** and **Password** fields use the `.input-field` class for consistent styling, with padding for comfort and a subtle border for definition.

## LOGIN BUTTON STYLING

```
.login-button {  
  width: 100%;  
  padding: 10px;  
  margin-top: 12px;  
  font-size: 16px;  
  color: #fff;  
  background-color: #007bff;  
  border: none;  
  border-radius: 4px;  
  cursor: pointer;  
}  
  
.login-button:hover {  
  background-color: #0056b3;  
}
```

- The **Login** button is styled with a blue background, white text, and rounded corners.
- It changes to a darker blue when hovered for better user interaction.

## **CONCLUSION**

This Role-Based Login Page is a simple, responsive template that can be integrated with backend technologies to create a fully functional login system. It allows easy customization for various roles and serves as a starting point for building secure and role-specific login systems.