Internet and web programming CSE3002 Lab Component (L45+46) ASSESSMENT–2

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19BCB0086

Question

- Write a program to demonstrate the concept of HTML, CSS and JavaScript for any application of your choice. Create a homepage (add details about the application/your personal details) containing the tabs to toggle between the other pages (registration, login pages).
    a. Add more customized HTML elements including media, files, etc.,
    b. Apply CSS styles including selectors, box models, customized background - borders- text effects, multiple columns layout, etc.,
    c. Use JavaScript to validate the fields like name, e-mail, mobile number, etc., in the registration and login pages.

Note:-

- o The following points carry more weightage for this evaluation.
    - Legibility of the user interface
    - Number of unique features utilized from all HTML, CSS and JS
    - Form validation
- o Prepare a report with the code (mandatory), screenshots (mandatory) and brief paragraph highlighting the unique features (not mandatory).
- o After preparing the report, annotate the code and output screenshots where you have used the features given in the question.

Output

Login Page

Functionality/Validation using JS

Username

_____

Password

_____

SUBMIT

*Username is required

Dont have an account? Create here

If username empty

Username

Arshdeep Singh

Password

_____

SUBMIT

*Password must be at least 6 characters

Dont have an account? Create here

if password is empty

Username

Arshdeep Singh

Password

....

SUBMIT

*Password must be less than 20 characters

If password >20 characters

Username

dcfw

Password

....

SUBMIT

*Username/password combination incorrect

if username or password wrong

Login

Username

arshdeepdgreat

Password

....

☐ Show Password

SUBMIT

Dont have an account? Create here

If show passcode box unchecked

Username

arshdeepdgreat

Password

jbjdbjsbj

✓ Show Password

SUBMIT

Dont have an account? Create here

show password checked

Registration Page

Functionality/Validation using JS

Name empty

Name

Eg: John

Username

Password

Confirm Password

Date of Birth

dd-mm-yyyy

Phone Number

Profile Picture
Choose File No file chosen

SUBMIT

*Name is required

Username empty

Name

Arshdeep Singh

Username

Password

Confirm Password

Date of Birth

dd-mm-yyyy

Phone Number

Profile Picture
Choose File No file chosen

SUBMIT

*Username is required

Already have an account? Login here

Password empty

Name
Arshdeep Singh

Username
arshdeepdgreat

Password

Confirm Password

Date of Birth
dd-mm-yyyy

Phone Number

Profile Picture
Choose File | No file chosen

SUBMIT

*Password must be at least 6 characters

Password too long

Name
Arshdeep Singh

Username
arshdeepdgreat

Password
•••••••••••••••••••••••••••••

Confirm Password

Date of Birth
dd-mm-yyyy

Phone Number

Profile Picture
Choose File | No file chosen

SUBMIT

*Password must be less than 20 characters

Password/confirm not same

Name
Arshdeep Singh

Username
arshdeepdgreat

Password
••••••••••

Confirm Password
••••••••••••••

Date of Birth
dd-mm-yyyy

Phone Number

Profile Picture
Choose File | No file chosen

SUBMIT

*Password and Confirm password must be equal

if date of birth not before 2003

Name
Arshdeep Singh

Username
arshdeepdgreat

Password
••••••••

Confirm Password
••••••••

Date of Birth
10-10-2021

Phone Number

Profile Picture
Choose File | No file chosen

SUBMIT

*Age must be greater than 18

If mobile number blank/greater than 10 digits/
lesser than 10 digits/not a number

IF file not uploaded

Name

Arshdeep Singh

Username

arshdeepdgreat

Password

••••••••

Confirm Password

••••••••

Date of Birth

11-02-2002

Phone Number

Profile Picture

Choose File No file chosen

SUBMIT

*Enter valid mobile number

Name

Arshdeep Singh

Username

arshdeepdgreat

Password

•••••••

Confirm Password

•••••••

Date of Birth

11-02-2002

Phone Number

8754541603

Profile Picture

Choose File No file chosen

⚠ Please select a file.

Home Page

Arshdeep Singh   LOGOUT

Personal Details

Field	Details
Name:	Arshdeep Singh
Email:	arshdeepdgreat@gmail.com
Date of Birth:	11-February-2002
Mobile Number:	9000000000

Directory structure

```
templates
    JS scr.js
    JS script.js
    style.css
    home.html
    login.html
    signup.html
```

Login.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>IWP LAB ASSESSMENT</title>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/css/materialize.min.css">
    <link rel="stylesheet" href="templates/style.css">
    <script defer src="templates/scr.js"></script>
</head>
<body class="greenbg">
    <div class="container">
        <div class="grey lighten-4 container z-depth-2">
            <h4 class="center white-text">
                Sign up
            </h4>
            <form id="form" method="GET" class="white" action="home.html">
                <div>
                    <label for="name">Username</label>
                    <input type="text" name="name" id="name">
                </div>
                <div>
                    <label for="password">Password</label>
                    <input type="password" name="password" id="password">
                </div>
                <div class="center">
                    <button class="btn btn-primary"type="submit">Submit</button>
                </div>
                <div id="error" class="rd"></div>
            </form>
            <div class="blbox"></div>
            <div class="center">
                <p>Dont have an account?
                <a href="signup.html">Create here</a></p>
```
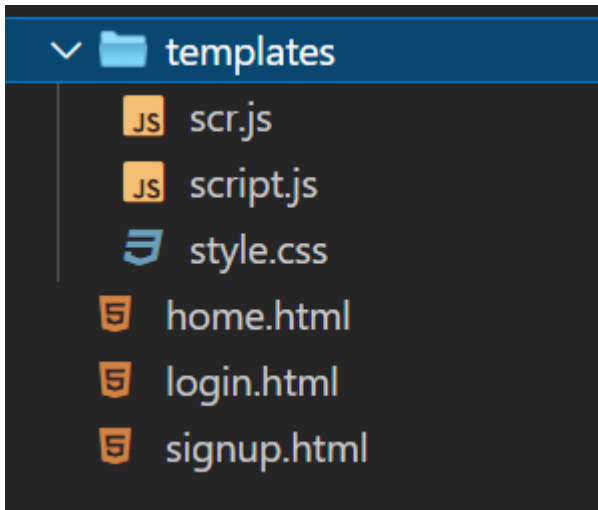
```
            </div>
            <div class="blbox"></div>
        </div>
    </div>

</body>
</html>
```

Scr.js

```js
const uname=document.getElementById('name')
const password=document.getElementById('password')
const form=document.getElementById('form')
const errors=document.getElementById('error')

function myFunction() {
    var x = password
    if (x.type === "password") {
        x.type = "text";
    } else {
        x.type = "password";
    }
}

form.addEventListener('submit',(e) => {
    let messages=[]
    if(messages.length===0 &&(uname.value==='' || uname.value==null)){
        messages.push("*Username is required");
    }
    if(messages.length===0 && password.value.length<=6){
        messages.push("*Password must be at least 6 characters")
    }
    if(messages.length===0 && password.value.length>=20){
        messages.push("*Password must be less than 20 characters")
    }
    if(messages.length>0){
        e.preventDefault()
        errors.innerText=messages.join(", ")
    }
})
```

Signup.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>IWP LAB ASSESSMENT</title>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/
css/materialize.min.css">
    <link rel="stylesheet" href="templates/style.css">
    <script defer src="templates/script.js"></script>
```

```html
</head>
<body class="greenbg">
    <div class="container"><div class="container">
        <div class=" grey lighten-4 container z-depth-2">
            <h4 class="center white-text">
                Register Here
            </h4>
            <form id="form" method="GET" class="white" >
                <div>
                    <label  for="first_Name">Name</label>
                    <input placeholder="Eg: John" type="text" id="first_name">
                </div>
                <div>
                    <label  for="name">Username</label>
                    <input type="text" name="name" id="name">
                </div>
                <div>
                    <label  for="password">Password</label>
                    <input type="password" name="password" id="password">
                </div>
                <div>
                    <label  for="c_password">Confirm Password</label>
                    <input type="password" name="c_password" id="c_password">
                </div>
                <div>
                    <label  for="dob">Date of Birth</label>
                    <input type="date" name="dob" id="dob">
                </div>
                <div>
                    <label  for="mobile">Phone Number</label>
                    <input type="number" name="mobile" id="mobile">
                </div>
                <div>
                    <label  for="dp">Profile Picture</label>
                    <input type="file" name="dp" id="dp" required>
                    <br>
                </div>
                <br>
                <div class="center">
                    <button class="btn btn-primary"type="submit">Submit</button>
                </div>
                <div id="error" style="color: red;"></div>
            </form>

            <div class="blbox"></div>
            <div class="center">
                <p>Already have an account?
                <a href="login.html">Login here</a></p>
            </div>
            <div class="blbox"></div>
        </div>
    </div></div>

</body>
```

```
</html>
```

Style.css

```css
.greenbg{
    background-color: #155252;
}
h4{
    background-color:black;
    padding:10px;
}
.btn::hover{
    background-color: rgb(102,133,30,0.75)
}
form {
    max-width: 800px;
    margin: 100px;
    margin-bottom: 0px;
    padding: 20px;
    margin-top:5rem
}
.blbox {
    padding-top:0.5rem;
}
label {
    font-size:18px; color:black;
}
.rd{
    color:red;
}
.dp{
    border-radius: 50%;
}
```

Script.js

```js
const uname=document.getElementById('name')
const password=document.getElementById('password')
const cpassword=document.getElementById('c_password')
const form=document.getElementById('form')
const errors=document.getElementById('error')
const fname=document.getElementById('first_name');
const dob=document.getElementById('dob')
const mob=document.getElementById('mobile')


form.addEventListener('submit',(e) => {
    let messages=[]
    if(messages.length===0 &&(fname.value==='' || fname.value==null)){
        messages.push("*Name is required");
    }
    if(messages.length===0 &&(uname.value==='' || uname.value==null)){
        messages.push("*Username is required");
    }
    if(messages.length===0 && password.value.length<=6){
        messages.push("*Password must be at least 6 characters")
```

```
        }
        if(messages.length===0 && password.value.length>=20){
            messages.push("*Password must be less than 20 characters")
        }
        if(messages.length===0 && cpassword.value!==password.value){
            messages.push("*Password and Confirm password must be equal")
        }
        if(messages.length===0 && (uname.value==='' || uname.value==null)){
            messages.push("*Date of Birth is required")
        }
        if(messages.length===0 && (mob.value==='' || mob.value==null || mob.value.length!==10)
){
            messages.push("*Enter valid mobile number")
        }
        if(messages.length>0){
            e.preventDefault()
            errors.innerText=messages.join(", ")
        }
})
```

Home.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/
css/materialize.min.css">
    <link rel="stylesheet" href="templates/style.css">
</head>
<body class="greenbg">
    <nav class="black z-depth-0">
        <div class="container">
            <a href="#" class="brand-logo brand-text">Arshdeep Singh</a>
            <ul id="nav-mobile" class="right hide-on-small-and-down">
                <li><a href="login.html" class="btn brand z-depth-0">Logout</a></li>
            </ul>
        </div>
    </nav>
    <div class="container">
        <div class="grey lighten-4 container z-depth-3">
            <h4 class="center white-text">
                Personal Details
            </h4>
            <div class="center">
                <img src="images\arshdeepdp.png" class="dp"width="30%">
            </div>
            <div class="container">
                <table>
                    <th>Field</th>
                    <th>Details</th>
```

```
        <tr>
            <td>Name: </td>
            <td>Arshdeep Singh</td>
        </tr>
        <tr>
            <td>Email: </td>
            <td>arshdeepdgreat@gmail.com</td>
        </tr>
        <tr>
            <td>Date of Birth: </td>
            <td>11-February-2002</td>
        </tr>
        <tr>
            <td>Mobile Number: </td>
            <td>9000000000</td>
        </tr>
        </table>
        <div class="blbox"></div>
      </div>
    </div>
  </div>
</body>
</html>
```

Unique features

- Usage of responsive CSS
- Hover effect on login button
  - We select the button class and when button::hover we keep the same colour but decrease the opacity by 75 percent
- Show/hide passcode
  - A function is created to change the type of the form from password to text "on-click"
  - Then we create an input checkbox and pass in the function name as onclick.