

Assignment 2 - 20BCE10584

Front-end Html for Login and Registration Page : -

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Registration and Login form with validation</title>
  <script src="validation.js"></script>
</head>
<style>
  body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
  }

  h1 {
    text-align: center;
    margin-top: 50px;
  }

  form {
    width: 400px;
    margin: 0 auto;
    background-color: #f2f2f2;
    padding: 20px;
    border-radius: 10px;
    box-shadow: 0px 2px 4px rgba(0, 0, 0, 0.3);
  }

  form h2 {
    text-align: center;
    margin-bottom: 20px;
  }

  form div {
    margin-bottom: 10px;
  }

  form label {
    display: block;
    margin-bottom: 5px;
  }

  form input[type="text"],
  form input[type="email"],
```

```
form input[type="password"] {
    width: 100%;
    padding: 10px;
    border-radius: 5px;
    border: 1px solid #ccc;
    box-sizing: border-box;
    font-size: 16px;
}

form button[type="submit"] {
    display: block;
    margin-top: 20px;
    padding: 10px;
    background-color: #4CAF50;
    color: white;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    font-size: 16px;
}

form button[type="submit"]:hover {
    background-color: #3e8e41;
}

span.error {
    color: red;
    font-size: 14px;
}
</style>
<body>
    <h1>Registration and Login form with validation</h1>

    <!-- Registration Form -->
    <form id="register-form" action="register.php" method="post" onsubmit="return
validateRegisterForm()">
        <h2>Register</h2>
        <div>
            <label for="name">Name:</label>
            <input type="text" id="name" name="name">
            <span id="name-error"></span>
        </div>
        <div>
            <label for="email">Email:</label>
            <input type="email" id="email" name="email">
            <span id="email-error"></span>
        </div>
        <div>
            <label for="password">Password:</label>
            <input type="password" id="password" name="password">
            <span id="password-error"></span>
        </div>
        <div>
            <label for="confirm-password">Confirm Password:</label>
```

```

        <input type="password" id="confirm-password" name="confirm-password">
        <span id="confirm-password-error"></span>
    </div>
    <button type="submit">Register</button>
</form>

<!-- Login Form -->
<form id="login-form" action="login.php" method="post" onsubmit="return
validateLoginForm()">
    <h2>Login</h2>
    <div>
        <label for="login-email">Email:</label>
        <input type="email" id="login-email" name="email">
        <span id="login-email-error"></span>
    </div>
    <div>
        <label for="login-password">Password:</label>
        <input type="password" id="login-password" name="password">
        <span id="login-password-error"></span>
    </div>
    <button type="submit">Login</button>
</form>
</body>
</html>

```

The **Validation.js** that is src for <script> tag :-

```

function validateForm() {
    // Get values from form inputs
    const username = document.getElementById("username").value;
    const email = document.getElementById("email").value;
    const password = document.getElementById("password").value;
    const confirmPassword = document.getElementById("confirm_password").value;

    // Define regex patterns for validation
    const usernameRegex = /^[a-zA-Z0-9]{6,}$/;
    const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    const passwordRegex = /^(?=.*\d)(?=.*[a-z])(?=.*[A-Z])[0-9a-zA-Z]{8,}$/;

    // Define error messages
    let errorMessage = "";
    let isError = false;

    // Validate username
    if (!usernameRegex.test(username)) {
        errorMessage += "Username must contain at least 6 alphanumeric characters.\n";
        isError = true;
    }

```

```
}

// Validate email
if (!emailRegex.test(email)) {
    errorMessage += "Invalid email address.\n";
    isError = true;
}

// Validate password
if (!passwordRegex.test(password)) {
    errorMessage += "Password must contain at least 8 characters, including 1
uppercase letter, 1 lowercase letter, and 1 number.\n";
    isError = true;
}

// Validate confirm password
if (password !== confirmPassword) {
    errorMessage += "Passwords do not match.\n";
    isError = true;
}

// If there are errors, display them and prevent form submission
if (isError) {
    alert(errorMessage);
    return false;
}

// If there are no errors, allow form submission
return true;
}
```

Registration.php : -

```
<?php
// Connect to MySQL
$conn = mysqli_connect('localhost', 'username', 'password', 'database_name');

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

// Check if form is submitted
if (isset($_POST['submit'])) {
    // Get input values from form
    $username = mysqli_real_escape_string($conn, $_POST['username']);
    $email = mysqli_real_escape_string($conn, $_POST['email']);
    $password = mysqli_real_escape_string($conn, $_POST['password']);
}
```

```

// Check if username already exists
$sql = "SELECT * FROM users WHERE username='$username'";
$result = mysqli_query($conn, $sql);
if (mysqli_num_rows($result) > 0) {
    echo "Username already taken";
} else {
    // Hash password
    $hash = password_hash($password, PASSWORD_DEFAULT);

    // Insert user data into database
    $sql = "INSERT INTO users (username, email, password) VALUES ('$username',
'email', '$hash')";
    if (mysqli_query($conn, $sql)) {
        echo "Registration successful";
    } else {
        echo "Error: " . $sql . "<br>" . mysqli_error($conn);
    }
}

// Close connection
mysqli_close($conn);
}
?>

```

Login.php :-

```

<?php
// Start session
session_start();

// Connect to MySQL
$conn = mysqli_connect('localhost', 'username', 'password', 'database_name');

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

// Check if form is submitted
if (isset($_POST['submit'])) {
    // Get input values from form
    $username = mysqli_real_escape_string($conn, $_POST['username']);
    $password = mysqli_real_escape_string($conn, $_POST['password']);

    // Check if username exists
    $sql = "SELECT * FROM users WHERE username='$username'";
    $result = mysqli_query($conn, $sql);
    if (mysqli_num_rows($result) > 0) {
        // Get password hash from database
        $row = mysqli_fetch_assoc($result);
    }
}

```

```
$hash = $row['password'];

// Verify password
if (password_verify($password, $hash)) {
    // Password matches, set session variable
    $_SESSION['username'] = $username;
    echo "Login successful";
} else {
    echo "Incorrect password";
}
} else {
    echo "Username does not exist";
}

// Close connection
mysqli_close($conn);
}
```

?>

Output : -

Registration and Login form with validation

Register

Name:

Email:

Password:

Confirm Password:

Register

Login

Email:

Password:

Login

