Pondicherry University (Karaikal Campus)

Department of Computer Science

Master of Computer Applications

Odd Semester 2023-24

CSCA512 – INTERNET AND WEB TECHNOLOGIES

Assignment Questions

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1. Develop a job application form using HTML and Javascript. Create a HTML form which accepts input from the user like name, dob, age, gender, mobile number, address, and country and education details. For country use dropdown menu, and for education use multiple selection dropdown (should not use check box). When submit button is clicked the information entered by the user should be displayed in the next page for confirmation. Validate the dob with dd-mm-yyyy and 10 digit mobile number using regular expressions.

Source Code

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Job Application Form</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            margin: 20px;

        }

        label {

            display: block;

            margin-bottom: 5px;

        }


        input, select {
```

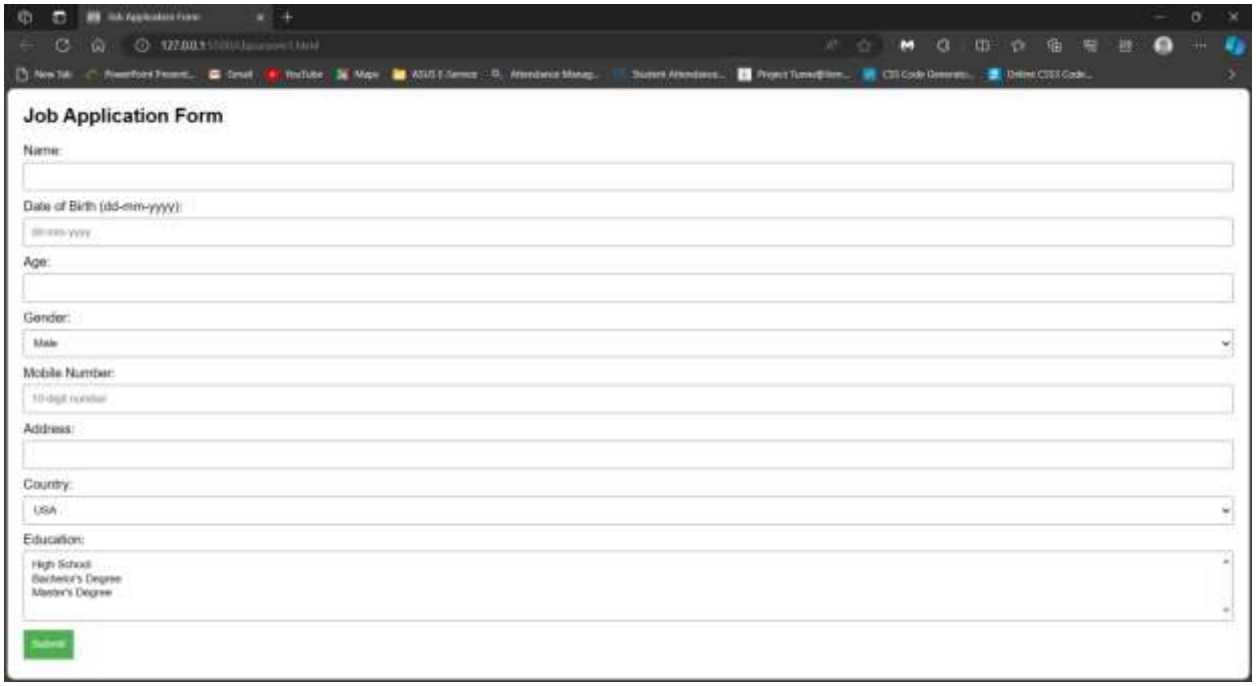
```
            margin-bottom: 10px;
            width: 100%;
            padding: 8px;
            box-sizing: border-box;
        }
        button {
            padding: 10px;
            background-color: #4CAF50;
            color: white;
            border: none;
            cursor: pointer;
        }
    </style>
</head>
<body>
    <h2>Job Application Form</h2>
    <form id="jobApplicationForm">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>
        <label for="dob">Date of Birth (dd-mm-yyyy):</label>
        <input type="text" id="dob" name="dob" pattern="\d{2}-\d{2}-\d{4}" placeholder="dd-mm-yyyy" required>
        <label for="age">Age:</label>
        <input type="number" id="age" name="age" required>
        <label for="gender">Gender:</label>
        <select id="gender" name="gender" required>
```

```
            <option value="male">Male</option>
            <option value="female">Female</option>
            <option value="other">Other</option>
        </select>
        <label for="mobile">Mobile Number:</label>
        <input type="tel" id="mobile" name="mobile" pattern="\d{10}" placeholder="10-digit number" required>
        <label for="address">Address:</label>
        <input type="text" id="address" name="address" required>
        <label for="country">Country:</label>
        <select id="country" name="country" required>
            <option value="usa">USA</option>
            <option value="canada">Canada</option>
            <option value="uk">UK</option>
            <!-- Add more options as needed -->
        </select>
        <label for="education">Education:</label>
        <select id="education" name="education" multiple required>
            <option value="highschool">High School</option>
            <option value="bachelors">Bachelor's Degree</option>
            <option value="masters">Master's Degree</option>
            <!-- Add more options as needed -->
        </select>

        <button type="button" onclick="submitForm()">Submit</button>
    </form>
```

```
    <script>
        function submitForm() {
            // Form validation
            const form = document.getElementById('jobApplicationForm');
            if (!form.checkValidity()) {
                alert('Please fill out all the required fields.');
                return;
            }
            // Display confirmation page
            const confirmationPage = window.open('', '_blank');
            confirmationPage.document.write('<h2>Confirmation Page</h2>');
            confirmationPage.document.write('<p>Name: ' + form.name.value + '</p>');
            confirmationPage.document.write('<p>Date of Birth: ' + form.dob.value + '</p>');
            confirmationPage.document.write('<p>Age: ' + form.age.value + '</p>');
            confirmationPage.document.write('<p>Gender: ' + form.gender.value + '</p>');
            confirmationPage.document.write('<p>Mobile Number: ' + form.mobile.value + '</p>');
            confirmationPage.document.write('<p>Address: ' + form.address.value + '</p>');
            confirmationPage.document.write('<p>Country: ' + form.country.value + '</p>');
            const educationOptions = form.education.selectedOptions;
            confirmationPage.document.write('<p>Education: ' +
Array.from(educationOptions).map(option => option.text).join(', ') + '</p>');
            confirmationPage.document.close();
        }
    </script>
</body>
</html>
```

OUTPUT:


Job Application Form
Name:
Date of Birth (dd-mm-yyyy):
Age:
Gender:
Male
Mobile Number:
Address:
Country:
USA
Education:
High School
Bachelor's Degree
Master's Degree
Submit

2. Develop a webpage using javascript to display list of pictures one by one. Add a newbutton with text "Previous" to the page. By pressing this button it must be possible toview the previous image. Similarly add a button with text “Next” and by pressing thisbutton it must be possible to view the next image. Add two new buttons shrink andenlarge, with which it should shrink or enlarge the shown picture.

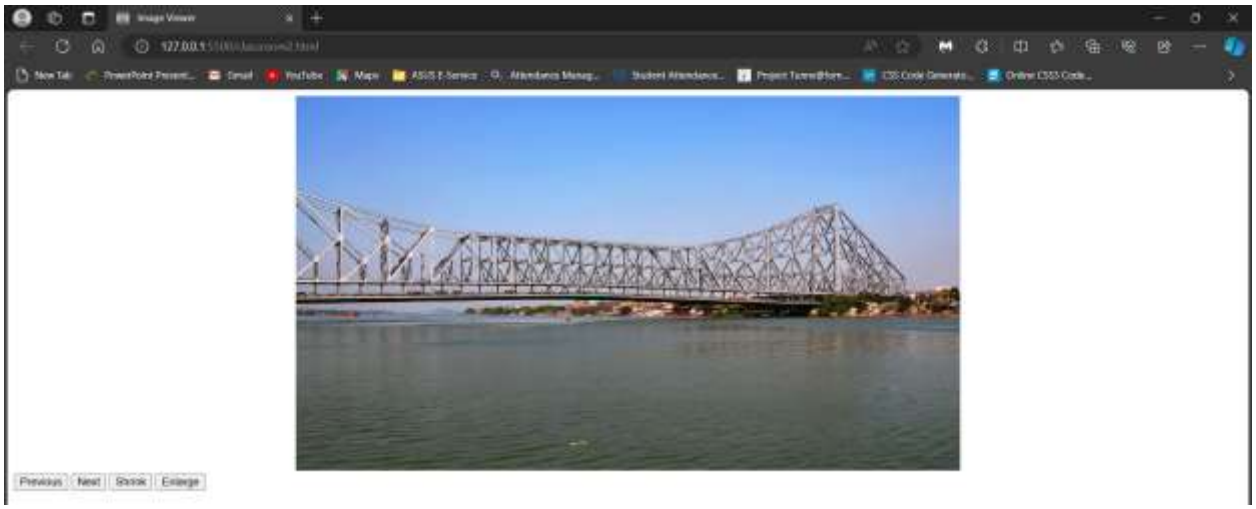
Source Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <style>
    #image-container {
      text-align: center;
    }
  </style>
  <title>Image Viewer</title>
</head>
<body>
<div id="image-container">
  <img id="displayed-image" src="" alt="Displayed Image">
</div>
<div>
  <button onclick="previousImage()">Previous</button>
```

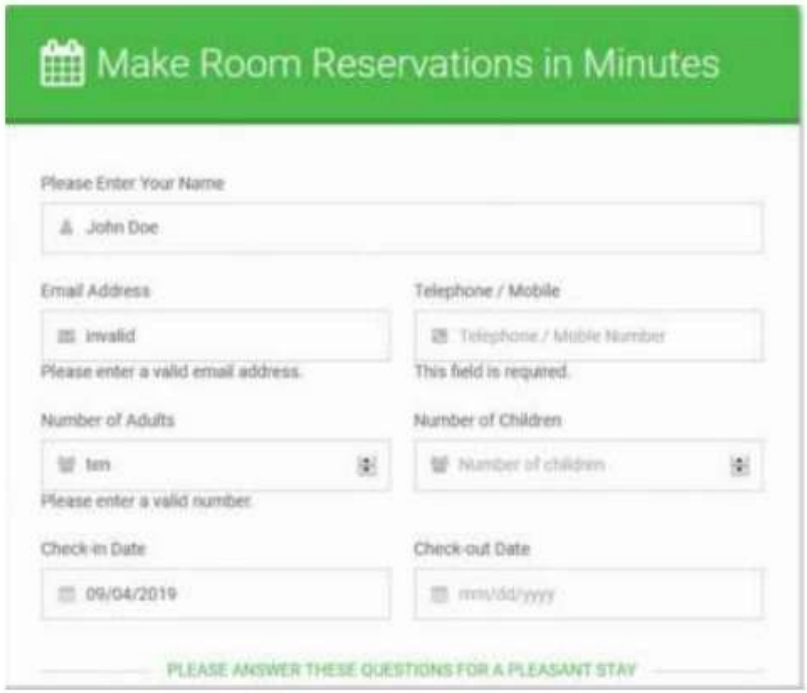
```
  <button onclick="nextImage()">Next</button>
  <button onclick="shrinkImage()">Shrink</button>
  <button onclick="enlargeImage()">Enlarge</button>
</div>
<script>
  // Array of image URLs
  const imageUrls = [
    'image.jpg',
    'image2.jpg',
    'image3.jpg',
    // Add more image URLs as needed
  ];
  let currentImageIndex = 0;
  const displayedImage = document.getElementById('displayed-image');
  function updateImage() {
    displayedImage.src = imageUrls[currentImageIndex];
  }
  function previousImage() {
    currentImageIndex = (currentImageIndex - 1 + imageUrls.length) % imageUrls.length;
    updateImage();
  }
  function nextImage() {
    currentImageIndex = (currentImageIndex + 1) % imageUrls.length;
    updateImage();
  }
```

```
  function shrinkImage() {
    const currentWidth = displayedImage.width;
    displayedImage.width = currentWidth * 0.8; // Shrink by 20%
  }
  function enlargeImage() {
    const currentWidth = displayedImage.width;
    displayedImage.width = currentWidth * 1.2; // Enlarge by 20%
  }
  // Initial image display
  updateImage();
</script>
</body>
</html>
```

OUTPUT:



3. Develop a javascript program to do the following validation and retrieve information from the given reservation form..
   a) All the fields are mandatory.
   b) Mobile number should include two digit area code followed by ten digit number for example: 91-9887601234
   c) Email address should be in proper format. Example: abc@gmail.com or abc@yahoo.co.in



Source Code:

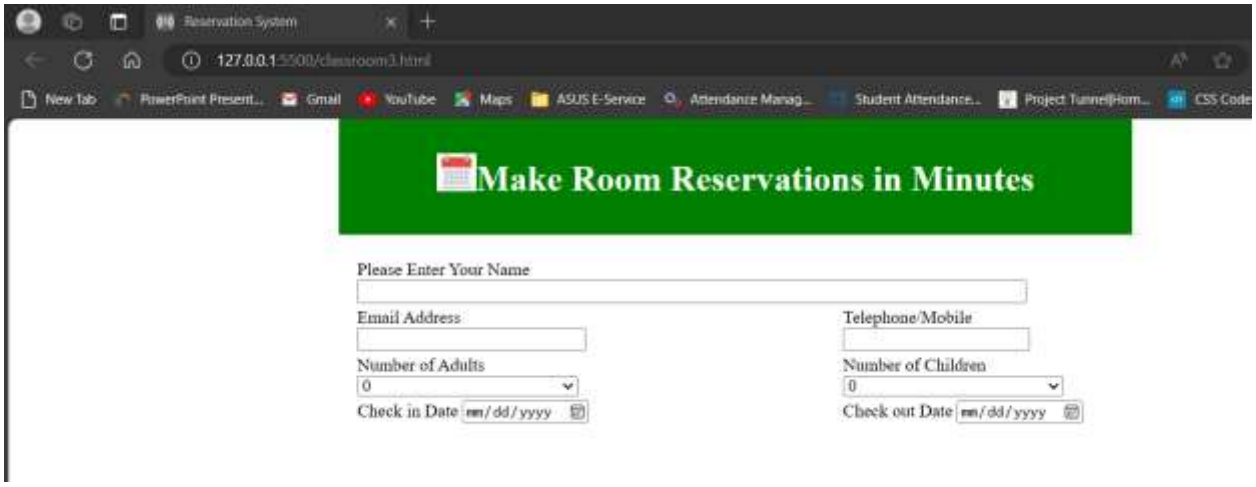
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Reservation System</title>
    <style>
        body {
            margin: 0;
        }
        header {
            text-align: center;
            background-color: green;
            padding: 10px;
            color: white;
        }
        form {
            margin: auto;
            max-width: 900px;
            padding: 20px;
        }
        table {
            width: 100%;
        }
```

```
    </style>
</head>
<body>
    <header style="background-color: green; width:700px; margin-left:300px;">
        <h1><img src="reservation.png" style=" width:36px;">Make Room Reservations in Minutes</h1>
    </header>

     <form>
        <table>
            <tr>
                <td colspan="2">
        <label>Please Enter Your Name</label>
        <br>
        <input type="text" style="width: 600px;">
                </td>
            </tr>
            <tr>
                <td>
        <label>Email Address</label>
        <br>
        <input type="email" style="width: 200px;">
        </td>
        <td>
        <label>Telephone/Mobile</label>
```

```
<br>
<input type="text">
</td>
</tr>
<tr>
   <td>
<label>Number of Adults</label>
<br>
<select style="width:200px;">
   <option value="">0</option>
   <option value="">1</option>
   <option value="">2</option>
   <option value="">3</option>
   <option value="">4</option>
   <option value="">5</option>
   <option value="">6</option>
   <option value="">7</option>
   <option value="">8</option>
   <option value="">9</option>
   <option value="">10</option>
</select>
</td>
<td>
<label>Number of Children</label>
<br>
```

```
<select style="width: 200px;">
    <option value="">0</option>
    <option value="">1</option>
    <option value="">2</option>
    <option value="">3</option>
    <option value="">4</option>
    <option value="">5</option>
    <option value="">6</option>
    <option value="">7</option>
    <option value="">8</option>
    <option value="">9</option>
    <option value="">10</option>
</select>
</td>
</tr>
<tr>
    <td>
<label>Check in Date</label>
<input type="date">
    </td>
    <td>
<label>Check out Date</label>
<input type="date">
    </td>
</tr>
```

```
    </table>
  </form>
</body>
</html>
```

OUTPUT: