

**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();

    }

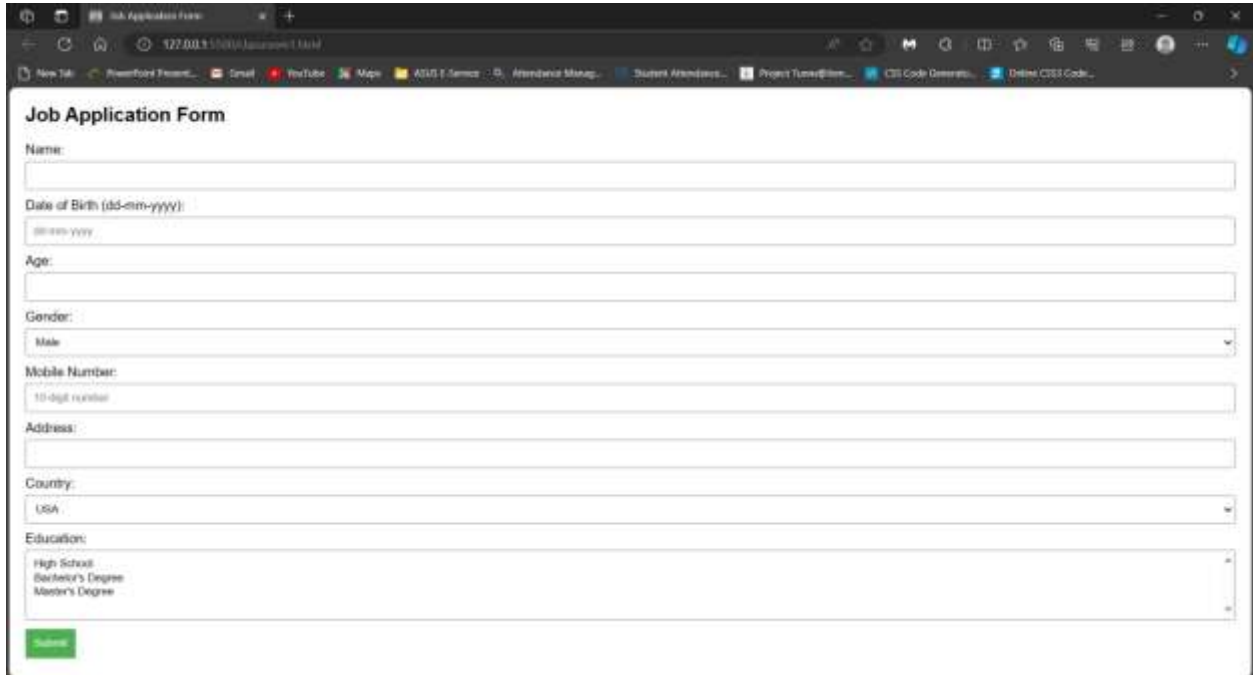
</script>

</body>

</html>

```

## OUTPUT:



The screenshot displays a web browser window with a single tab titled 'Job Application Form'. The address bar shows the URL '127.0.0.1:55004/JavaScript.html'. The browser's tab bar includes several open tabs: 'New Tab', 'PowerPoint Present...', 'Gmail', 'YouTube', 'Maps', 'ASUS T-Series', 'Attendance Manag...', 'Student Attendance...', 'Project Tunes@Bom...', 'CIS Code Generato...', and 'Delete CIS Code...'. The main content area of the browser contains a form titled 'Job Application Form'. The form includes the following fields and options:

- Name:** A text input field.
- Date of Birth (dd-mm-yyyy):** A text input field with a placeholder 'dd-mm-yyyy'.
- Age:** A text input field.
- Gender:** A dropdown menu with 'Male' selected.
- Mobile Number:** A text input field with a placeholder '10-digit number'.
- Address:** A text input field.
- Country:** A dropdown menu with 'USA' selected.
- Education:** A dropdown menu with options 'High School', 'Bachelor's Degree', and 'Master's Degree'.

A green 'Submit' button is located at the bottom left of the form.

2. Develop a webpage using javascript to display list of pictures one by one. Add a new button with text "Previous" to the page. By pressing this button it must be possible to view the previous image. Similarly add a button with text "Next" and by pressing this button it must be possible to view the next image. Add two new buttons shrink and enlarge, 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 currentIndex = 0;

  const displayedImage = document.getElementById('displayed-image');

  function updateImage() {

    displayedImage.src = imageUrls[currentIndex];

  }

  function previousImage() {

    currentIndex = (currentIndex - 1 + imageUrls.length) % imageUrls.length;

    updateImage();

  }

  function nextImage() {

    currentIndex = (currentIndex + 1) % imageUrls.length;

    updateImage();

  }
```



```

function shrinkImage() {
    const currentWidth = displayedImage.width;

    displayedImage.width = currentWidth * 0.8; // Shrink by 20%
}

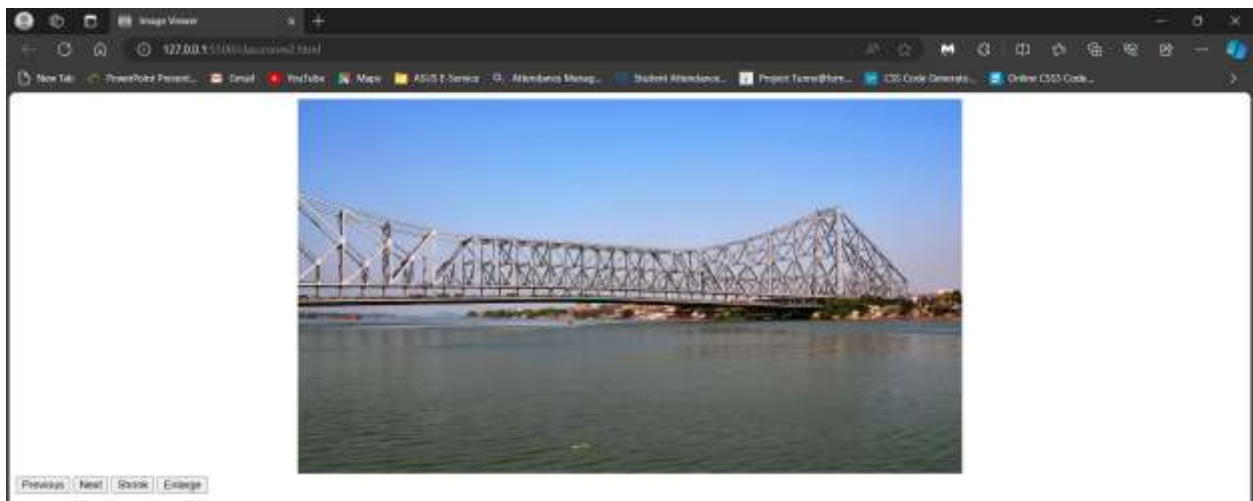
function enlargeImage() {
    const currentWidth = displayedImage.width;

    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](mailto:abc@gmail.com) or [abc@yahoo.co.in](mailto:abc@yahoo.co.in)

 **Make Room Reservations in Minutes**

Please Enter Your Name

 John Doe

Email Address

 Invalid


Please enter a valid email address.

Telephone / Mobile

 Telephone / Mobile Number

This field is required.

Number of Adults

 ten

Please enter a valid number.


Number of Children

 Number of children

Check-in Date

 09/04/2019

Check-out Date

 mm/dd/yyyy

PLEASE ANSWER THESE QUESTIONS FOR A PLEASANT STAY

## Source Code:

```
<!DOCTYPE html>
```

<html lang="en">

&lt;head&gt;

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

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

&lt;title&gt;Reservation System&lt;/title&gt;

&lt;style&gt;

body {

margin: 0;

$$\}$$

```
header {
```

```
text-align: center;
```

```
background-color: green;
```

padding: 10px;

```
color: white;
```

$$\}$$

form {

margin: auto;

```
max-width: 900px;
```

padding: 20px;

}



width: 100%;

$$\}$$

```

</style>

</head>

<body>

  <header style="background-color: green; width:700px; margin-left:300px;">

    <h1>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>

```

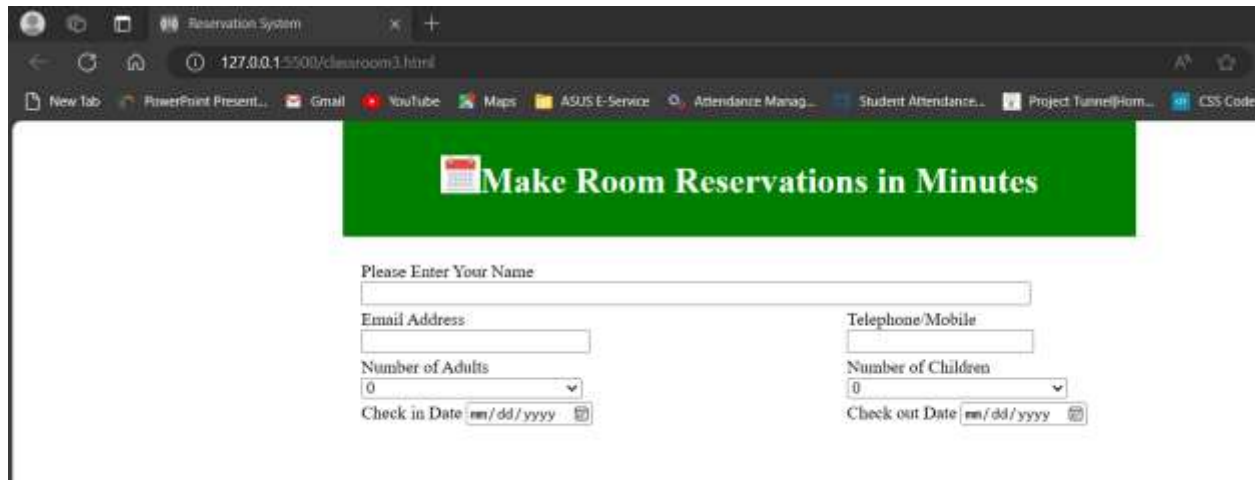
</table>

</form>

</body>

</html>

## OUTPUT:



The screenshot displays a web browser window with the title 'Reservation System'. The address bar shows '127.0.0.1:5500/classroom3.html'. The browser's tab bar includes 'New tab', 'PowerPoint Present...', 'Gmail', 'YouTube', 'Maps', 'ASUS E-Service', 'Attendance Manag...', 'Student Attendance...', 'Project TunnelHom...', and 'CSS Code'. The main content area features a green banner with the text 'Make Room Reservations in Minutes' and a calendar icon. Below the banner is a form titled 'Please Enter Your Name' with the following fields:

<input type="text"/>	
Email Address: <input type="text"/>	Telephone/Mobile: <input type="text"/>
Number of Adults: <input type="text" value="0"/>	Number of Children: <input type="text" value="0"/>
Check in Date: <input type="text" value="mm/dd/yyyy"/>	Check out Date: <input type="text" value="mm/dd/yyyy"/>