



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

DIGITAL ASSIGNMENT 3

(VTOP Submission due date: 25-JUL-2023)

Subject: ITA6003 Internet and Web Programming Lab

Internet and Web Programming

Lab Digital Assignment – II

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1. Develop an online PAT registration form with necessary form fields such as Name, Register Number, Password, Confirm Password, DOB, Age, Gender, Programme, Year, Semester, E-mail Id, Area of Interest and CGPA. Perform the following validation using JavaScript.
 - a) No fields should be empty.
 - b) Confirm password must match with the password.
 - c) DOB must be in dd/mm/yy format.
 - d) Email should be validated.

Use type of input such as radio button; drop down box, text area, etc. wherever required.

index.html:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>PAT Registration Form</title>
    <link rel="stylesheet" href="./style.css" />
  </head>
  <body>
    <div class="container">
      <form id="registrationForm">
        <h2>PAT Registration Form</h2>
        <div class="form-group">
          <label for="name">Name:</label>
          <input type="text" id="name" required />
        </div>
        <div class="form-group">
          <label for="registerNumber">Register Number:</label>
          <input type="text" id="registerNumber" required />
        </div>
        <div class="form-group">
          <label for="password">Password:</label>
          <input type="password" id="password" required />
        </div>
        <div class="form-group">
          <label for="confirmPassword">Confirm Password:</label>
          <input type="password" id="confirmPassword" required />
        </div>
        <div class="form-group">
          <label for="dob">DOB (dd/mm/yy):</label>
          <input type="text" id="dob" required />
        </div>
        <div class="form-group">
          <label for="age">Age:</label>
          <input type="number" id="age" required />
        </div>
        <div class="form-group" style="justify-content: space-between">
          <label>Gender:</label>
          <label for="male">
            >Male
            <input type="radio" id="male" name="gender" value="Male" required
            /></label>
          <label for="female">
            >Female
            <input
              type="radio"
            ></label>
        </div>
      </form>
    </div>
  </body>
</html>
```

```

        id="female"
        name="gender"
        value="Female"
        required
    /></label>

    <label for="other"
    >Other
    <input type="radio" id="other" name="gender" value="Other"
required
    /></label>
</div>
<div class="form-group">
    <label for="programme">Programme:</label>
    <select id="programme" required>
        <option value="">Select Programme</option>
        <option value="B.Tech">B.Tech</option>
        <option value="M.Tech">M.Tech</option>
        <option value="Ph.D.">Ph.D.</option>
    </select>
</div>
<div class="form-group">
    <label for="year">Year:</label>
    <input type="number" id="year" required />
</div>
<div class="form-group">
    <label for="semester">Semester:</label>
    <input type="number" id="semester" required />
</div>
<div class="form-group">
    <label for="email">Email:</label>
    <input type="email" id="email" required />
</div>
<div class="form-group">
    <label for="areaOfInterest">Area of Interest:</label>
    <textarea id="areaOfInterest" required></textarea>
</div>
<div class="form-group">
    <label for="cgpa">CGPA:</label>
    <input type="number" id="cgpa" step="0.01" required />
</div>
<div class="form-group">
    <button type="submit" onclick="validateForm()">Submit</button>
</div>
</form>
</div>

<script src="./script.js"></script>

```

```
</body>
</html>
```

style.css:

```
@import
url('https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&display=swap
');

body {
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
  background: url('./bg.jpg') no-repeat center center fixed;
  font-family: 'Roboto', sans-serif;
}

.container {
  background: rgba(255, 255, 255, 0.13);
  border-radius: 20px;
  padding: 30px 50px;
  width: 500px;
  box-shadow: 0 4px 32px 0 rgba(255, 255, 255, 0.39);
  backdrop-filter: blur(5px);
  border: 1px solid rgba(255, 255, 255, 0.349);
  height: 90%;
  color: black;
}

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

.form-group {
  margin-bottom: 20px;
  display: flex;
  flex-direction: row;
  align-items: center;
}

label {
  font-weight: bold;
  margin-right: 10px;
  /* Add spacing between Label and input */
}
```

```
    flex-basis: 100px;
    /* Set fixed width for labels */
}

input[type="text"],
input[type="password"],
input[type="number"],
input[type="email"],
select,
textarea {
    flex: 1;
    padding: 10px;
    border: 1px solid #62a9e494;
    border-radius: 5px;
    background: rgba(255, 255, 255, 0.2);
}

textarea {
    resize: none;
}

.button-group {
    display: flex;
    justify-content: space-between;
    align-items: center;
}

button {
    background: rgba(255, 255, 255, 0.13);
    border: none;
    border-radius: 5px;
    padding: 12px 20px;
    cursor: pointer;
    width: 100%;
    font-size: 16px;
    font-weight: 700;
    transition: 1s ease-in-out;
}

button:hover {
    background: rgba(255, 255, 255, 0.5);
}

.error-message {
    color: red;
    font-size: 12px;
    margin-top: 5px;
}
```

script.js:

```
document.addEventListener('DOMContentLoaded', () => {
    const form = document.getElementById('registrationForm');

    form.addEventListener('submit', (e) => {
        e.preventDefault();
        clearErrors();

        if (!validateForm()) {
            return;
        }
        alert('Registration successful!');
    });

    function validateForm() {
        let isValid = true;
        const name = document.getElementById('name').value.trim();
        const registerNumber =
document.getElementById('registerNumber').value.trim();
        const password = document.getElementById('password').value.trim();
        const confirmPassword =
document.getElementById('confirmPassword').value.trim();
        const dob = document.getElementById('dob').value.trim();
        const email = document.getElementById('email').value.trim();
        const cgpa = parseFloat(document.getElementById('cgpa').value.trim());

        if (name === '' || registerNumber === '' || password === '' ||
confirmPassword === '' ||
        dob === '' || email === '' || cgpa === NaN) {
            alert('All fields are required.');
```

```
            isValid = false;
        }

        if (password !== confirmPassword) {
            alert('Passwords do not match.');
```

```
            isValid = false;
        }

        if (!dob.match(/^d{2}\\d{2}\\d{2}$/)) {
            alert('DOB must be in dd/mm/yy format.');
```

```
            isValid = false;
        }

        if (!validateEmail(email)) {
            alert('Invalid email format.');
```

```
            isValid = false;
        }
    }
}
```

```

        return isValid;
    }

    function validateEmail(email) {
        const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
        return emailPattern.test(email);
    }

    function displayError(message) {
        const errorMessage = document.createElement('div');
        errorMessage.className = 'error-message';
        errorMessage.textContent = message;
        form.appendChild(errorMessage);
    }

    function clearErrors() {
        const errorMessages = document.querySelectorAll('.error-message');
        errorMessages.forEach((message) => message.remove());
    }
});

```

PAT Registration Form

Name:

Register Number:

Password:

Confirm Password:

DOB (dd/mm/yy):

Age:

Gender: ☒ Male ☐ Female ☐ Other

Programme:

Year:

Semester:

Email:

Area of Interest:

CGPA:

PAT Registration Form

Name:

Register Number: Please fill out this field.

Password:

Confirm Password:

DOB (dd/mm/yy):

Age:

Gender: ☒ Male ☐ Female ☐ Other

Programme:

Year:

Semester:

Email:

Area of Interest:

CGPA:

Submit

PAT Registration Form

127.0.0.1:5501 says
Passwords do not match.

OK

Name:

Register Number:

Password:

Confirm Password:

DOB (dd/mm/yy):

Age:

Gender: ☒ Male ☐ Female ☐ Other

Programme:

Year:

Semester:

Email:

Area of Interest:

CGPA:

Submit