



Assignment 1



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Course : Web Engineering

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Task : Create HTML form And Validate it with the help of JavaScript:

Html code(form.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>Form Validation</title>
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link
href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;700&display=swap"
rel="stylesheet">
  <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Secular
One">

  <link rel="stylesheet" href="style.css">

  <script defer src="script.js"></script>
</head>
<body>
  <div class="container">
    <form id="form" action="">
      <h1>Admission</h1>
      <div class="input-control">
        <label for="Name">Name</label>
        <input id="Name" name="Name" type="text">
        <div class="error"></div>
      </div>
      <div class="input-control">
        <label for="father_name">Father Name</label>
        <input id="father_name" name="father_name" type="text">
        <div class="error"></div>
      </div>
      <div class="input-control">
        <label for="department">Department</label>
        <input type="text" name="department" id="department" >
        <div class="error"></div>
      </div>
    </form>
  </div>
```



```
<div class="input-control">
  <label for="email">Email</label>
  <input id="email" name="email" type="text">
  <div class="error"></div>
</div>
<div class="input-control">
  <label for="semester">Semester</label>
  <input id="semester" name="semester" type="text">
  <div class="error"></div>
</div>
<div class="input-control">
  <label for="address">Address</label>
  <input id="address" name="address" type="text">
  <div class="error"></div>
</div>
<button type="submit">Sign Up</button>
</form>
</div>
</body>
</html>
```

CSS code (style.css)

```
body {
  background: linear-gradient(to right, #d7dba0, #10c8ce, #32b7f0);
  font-family: 'Poppins', sans-serif;
}

#form {
  box-shadow: 2px 2px 4px 2px rgba(0, 0, 0, 0.5);

  width: 300px;
  margin: 20vh auto 0 auto;
  padding: 20px;
  background-color: whitesmoke;
  border-radius: 4px;
  font-size: 12px;
}

#form h1 {
  font-family: 'Secular One';
  color: #0f2027;
  text-align: center;
  width: 100%;
```



```
}

#form button {
  padding: 10px;
  margin-top: 10px;
  width: 100%;
  color: white;
  background-color: rgb(41, 57, 194);
  border: none;
  border-radius: 4px;
}

.input-control {
  display: flex;
  flex-direction: column;
}

.input-control input {
  box-shadow: 2px 2px 4px 2px rgba(0, 0, 0,0.1);
  border: 2px solid #f0f0f0;
  border-radius: 4px;
  display: block;
  font-size: 12px;
  padding: 10px;
  width: 100%;
}

.input-control input:focus {
  outline: 0;
}

.input-control.success input {
  border-color: #09c372;
}

.input-control.error input {
  border-color: #ff3860;
}

.input-control .error {
  color: #ff3860;
  font-size: 9px;
  height: 13px;
}
```



JavaScript code(script.js)

```
const form = document.getElementById('form');
const Name = document.getElementById('Name');
const father_name=document.getElementById('father_name');
const department=document.getElementById('department');
const email = document.getElementById('email');
const semester = document.getElementById('semester');
const address = document.getElementById('address');

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

    validateInputs();
});

const setError = (element, message) => {
    const inputControl = element.parentElement;
    const errorDisplay = inputControl.querySelector('.error');

    errorDisplay.innerText = message;
    inputControl.classList.add('error');
    inputControl.classList.remove('success')
}

const setSuccess = element => {
    const inputControl = element.parentElement;
    const errorDisplay = inputControl.querySelector('.error');

    errorDisplay.innerText = '';
    inputControl.classList.add('success');
    inputControl.classList.remove('error');
};

const isValidEmail = email => {
    const re =
    /^(^<>()[\]\.\.,;\s@"]+(\.[^<>()[\]\.\.,;\s@"]+)*|(".*"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.([0-9]{1,3}|[a-zA-Z-0-9]+\.)+[a-zA-Z]{2,}))$|/;
    return re.test(String(email).toLowerCase());
}

const validateInputs = () => {
    const NameValue = Name.value.trim();
    const father_nameValue=father_name.value.trim();
    const departmentValue=department.value.trim();
```



```
const emailValue = email.value.trim();
const semesterValue = semester.value.trim();
const addressValue = address.value.trim();

if(NameValue === '') {
    setError(Name, 'Name is required');
} else {
    setSuccess(Name);
}
if(father_nameValue === ''){
    setError(father_name,'Father Name is required');

}else{
    setSuccess(father_name);
}
if(departmentValue === ''){
    setError(department,'Department Name is required');

}else{
    setSuccess(department)
}

if(emailValue === '') {
    setError(email, 'Email is required');
} else if (!isValidEmail(emailValue)) {
    setError(email, 'Provide a valid email address');
} else {
    setSuccess(email);
}

if(semesterValue === '') {
    setError(semester, 'Semester is required');
} else {
    setSuccess(semester);
}

if(addressValue === '') {
    setError(address, 'Address is required');
} else {
    setSuccess(address);
}
};
```



OUTPUT

(form)

Admission

Name

Father Name

Department

Email

Semester

Address

Sign Up



(Form validation)

Admission

Name

Name is required

Father Name

Father Name is required

Department

Department Name is required

Email

Email is required

Semester

Semester is required

Address

Address is required

Sign Up



(form with proper entries)

Admission

Name

Father Name

Department

Email

Semester

Address

Sign Up

The -End