Experiment -1.1

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Subject Name: Docker and Kubernetes   **Subject Code: 22CSH-343**

1. Aim/Overview of the practical:

Write JavaScript to validate the following fields of the registration form:

I.   First Name (Name should contains alphabets and the length should not be less

than 6 characters)

II.   Password (Password should not be less than 6 characters length

III.   E-mail id (should not contain any invalid and must follow the standard

pattern, name@domain.com)

IV.   Mobile Number (Phone number should contain 10 digits only)

V.   Last Name and Address (should not be Empty)

2.Apparatus: Windows PC, VS Code, Chrome Browser

3. Steps for experiment/practical:

HTML File – index.html
CSS File – style.css
JAVASCRIPT File – resp.js

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1. First Name

HTML

```html
<body>
    <section class="container">
        <header><b>Registration Form </b></header>
        <form action="#" class="form">
            <div class="input-box">
                <label>First Name</label>
                <input type="text" id="first-name" placeholder="Enter First Name" required>
                <div class="error" id="first-name-error"></div>
            </div>
```

2. Last Name

HTML

```html
<div class="input-box">
    <label>Last Name</label>
    <input type="text" id="last-name" placeholder="Enter Last Name" required>
    <div class="error" id="last-name-error"></div>

</div>
```

JAVASCRIPT

```javascript
document.addEventListener('DOMContentLoaded', function () {
    const fieldsToValidate = [
        { id: 'first-name', errorId: 'first-name-error' },
        { id: 'last-name', errorId: 'last-name-error' },
        { id: 'state', errorId: 'state-error' }
    ];
```

3. Email Address

HTML

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```html
<div class="input-box">
    <label>Email Address</label>
    <input type="text" id="email-address" placeholder="Enter Email Address" required>
</div>
```

4. Phone Number

HTML

```html
<div class="column">
    <div class="input-box">
        <label>Phone Number</label>
        <input type="tel" id="phone-number" placeholder="Enter Phone Number" required>
        <div class="error" id="phone-number-error"></div>
    </div>
</div>
```

5. Birth Date

HTML

```html
<div class="input-box">
    <label>Birth Date</label>
    <input type="text" id="birth-date" placeholder="Enter Birth Date" required>
    <div class="error" id="birth-date-error"></div>
</div>
</div>
```

JAVASCRIPT

```javascript
fieldsToValidate.forEach(field => {
    const input = document.getElementById(field.id);
    const error = document.getElementById(field.errorId);

    input.addEventListener('keypress', function (event){
        if (/\d/.test(input.value)) {
            event.preventDefault();
            error.textContent = 'Numbers are not allowed in this field.';
            error.style.color = 'red';
        } else {
            error.textContent = '';
        }
    });
});
```

6. Gender

HTML

```html
<div class="gender-box">
    <h3>Gender</h3>
    <div class="gender-option">
        <div class="gender">
            <input type="radio" id="check-male" name="gender" checked>
            <label for="check-male">Male</label>
        </div>
        <div class="gender">
            <input type="radio" id="check-female" name="gender">
            <label for="check-female">Female</label>
        </div>
        <div class="gender">
            <input type="radio" id="check-other" name="gender">
            <label for="check-other">Prefer not to say</label>
        </div>
    </div>
</div>
```

7. Address

HTML

```html
<div class="input-box address">
    <label>Address</label>
    <div class="column">
        <div class="select-box">
            <select id="country">
                <option>Argentina</option>
                <option>Denmark</option>
                <option>Egypt</option>
                <option>France</option>
                <option>Germany</option>
                <option>India</option>
                <option>Japan</option>
                <option>Mexico</option>
                <option>Netherlands</option>
                <option>Portugal</option>
                <option>Qatar</option>
                <option>Russia</option>
                <option>Spain</option>
                <option>Thailand</option>
            </select>
        </div>
```

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8. State

HTML

```html
    <input type="text" id="state" placeholder="Enter your state" required>
    <div class="error" id="state-error"></div>
</div>
<input type="text" id="street-address" placeholder="Enter street address" required>

<input type="text" id="postal-code" placeholder="Enter your postal code" required>
<div class="error" id="postal-code-error"></div>
</div>
```

JAVASCRIPT

```javascript
const numericFieldsToValidate = [
    { id: 'phone-number', errorId: 'phone-number-error' },
    { id: 'birth-date', errorId: 'birth-date-error' },
    { id: 'postal-code', errorId: 'postal-code-error' }
];
```
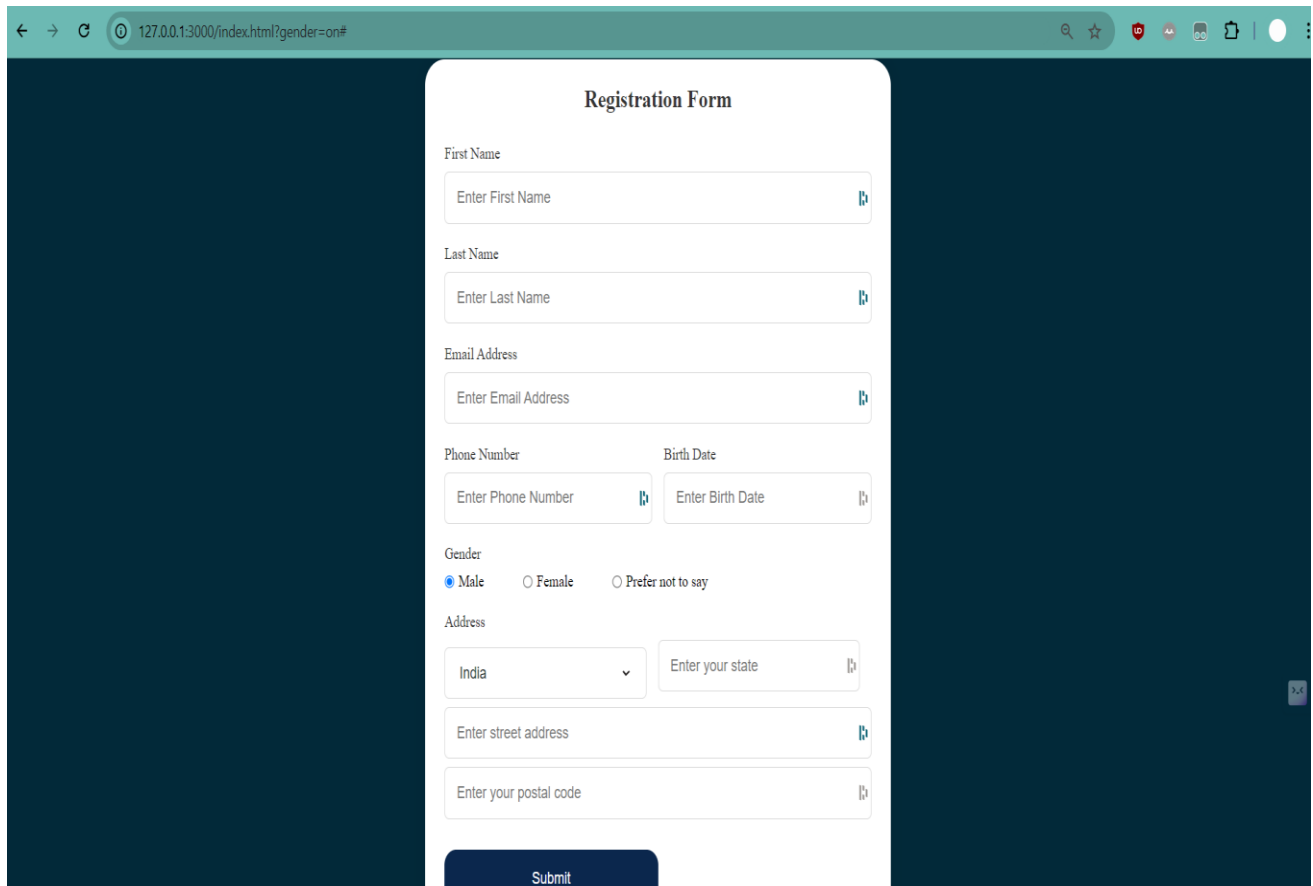
ERRORS

JAVASCRIPT

```javascript
numericFieldsToValidate.forEach(field => {
    const input = document.getElementById(field.id);
    const error = document.getElementById(field.errorId);

    input.addEventListener('keypress', function (event) {
        const char = String.fromCharCode(event.which);
        if (!/^[0-9+\-\/]*$/.test(char)) {
            event.preventDefault();
            error.textContent = 'Only numbers are allowed in this field.';
            error.style.color = 'red';
        } else {
            error.textContent = '';
        }
    });
});
```

```
input.addEventListener('input', function () {
    if (/[^0-9+\-\/]/.test(input.value)) {
        error.textContent = 'Only numbers are allowed in this field.';
        error.style.color = 'red';
    } else {
        error.textContent = '';
    }
});
```

4. Result/Output/Writing Summary:

- Registration Form

- With Errors

Registration Form

First Name

> 3

Numbers are not allowed in this field.

Last Name

> 2

Numbers are not allowed in this field.

Email Address

> 124FSFA

Phone Number

> Enter Phone Number

Only numbers are allowed in this field.

Birth Date

> Enter Birth Date

Only numbers are allowed in this field.

Gender

⦿ Male   ○ Female   ○ Prefer not to say

Address

> Argentina ⌄

> FE3

Numbers are not allowed in this field.

> VASDV322

> Enter your postal code

Only numbers are allowed in this field.

Learning outcomes (What I have learnt):

1. Learnt about HTML.

2. Learnt about CSS.

3. Learnt about Javascript.

4. Learn to validate the fields of login and registration pages using JS.

5. Learn to encode JS programming in HTML pages.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			