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Project 4: Form Validation using Regular Expressions | JavaScript Tutorial In Hindi #50

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## Project 4: Form Validation using Regular Expressions | JavaScript Tutorial In Hindi #50

Until now, we have three projects. Now it's time for the 4th project, which no doubt, is one of the most important project. The project we are going to build is "Form Validation using Regular Expressions". Validation of form input is something that should be taken seriously because nothing worse than garbage data will be submitted to a site which uses data from forms without proper validation.

The website we are going to build in this tutorial looks like the following:

# Dragon Travel desk
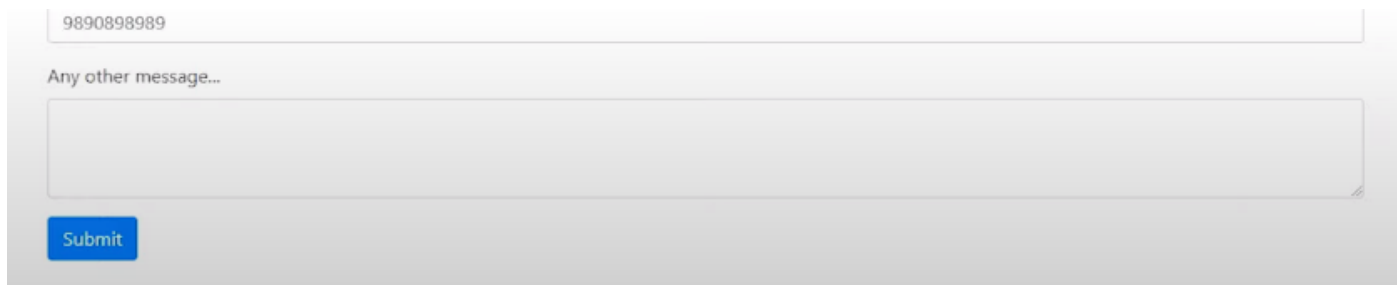
Username

harry

Email address

harryytuco@ewithharry.com

Select your car

Omni                                                                                      ▾

Enter your address

Enter your phone number

```
9890898989
Any other message...



Submit
```

## Setting Up the Project:-

For this project, we will use the VS Code. **Visual Studio Code** is a free and powerful source-code editor that runs on the desktop. If you have not installed the Visual Studio Code yet, then click on the link below for installation guidance:

[https://codewithharry.com/videos/javascript-tutorials-in-hindi-1](https://codewithharry.com/videos/javascript-tutorials-in-hindi-1)

### Here are the project setup steps:

1. Create a new project folder in VS Code.

2. Inside that project folder, create two empty new files: *project4.html* and *project4.js*.

We are also using **Bootstrap**. If you are not familiar with Bootstrap, then do not worry; just follow the tutorial.

## Bootstrap:-

Bootstrap is used for applying styling the user interface components. The easiest way to include Bootstrap is to add it from https://getbootstrap.com/docs/4.0/getting-started/introduction/.

First add the following in the head section:

```html
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
 integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
```

Then include the following code in the body section, before the closing </body> tag:

```html
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
```

```
         crossorigin="anonymous"></script>
```

**Bootstrap** is bundled with many components that can be used to provide good user experience and user interactions on a web page. In this project, we are using bootstrap components for making the front end of the website. So, let's start coding!!!

**Code as described/written in the video**

```html
<!doctype html>
<html lang="en">

<head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
        integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">

    <title> Welcome to Dragon travels</title>
</head>

<body>
    <div id="success" class="alert alert-success alert-dismissible fade" role="alert">
        <strong>Success!</strong> Your travel request has been successfully submitted
        <button type="button" class="close" data-dismiss="alert" aria-label="Close">
            <span aria-hidden="true">×</span>
        </button>
    </div>
    <div id="failure" class="alert alert-danger alert-dismissible fade" role="alert">
            <strong>Error!</strong> Your travel request has not been sent due to errors
            <button type="button" class="close" data-dismiss="alert" aria-label="Close">
                <span aria-hidden="true">×</span>
            </button>
        </div>
    <div class="container">
        <h1>Dragon Travel desk</h1>
```

```html
<form>
    <div class="form-group">
        <label for="name">Username</label>
        <input type="text" class="form-control" id="name" placeholder="Enter your username">
        <small id="namevalid" class="form-text text-muted invalid-feedback">
            Your username must be 2-10 characters long and should not start with a number
        </small>
    </div>

    <div class="form-group">
        <label for="email">Email address</label>
        <input type="text" class="form-control" id="email" placeholder="Enter your email">
        <small id="emailvalid" class="form-text text-muted invalid-feedback">
            Your email must be a valid email
        </small>
    </div>
    <div class="form-group">
        <label for="car">Select your car</label>
        <select class="form-control" id="car">
            <option>Omni</option>
            <option>Maruti 800</option>
            <option>Ford Titanium</option>
            <option>Audi A4</option>
        </select>
    </div>
    <div class="form-group">
        <label for="address">Enter your address</label>
        <textarea class="form-control" name="address" id="address" rows="3"></textarea>
    </div>
    <div class="form-group">
        <label for="address">Enter your phone number</label>
        <input class="form-control" name="phone" id="phone" rows="3">
        <small id="emailvalid" class="form-text text-muted invalid-feedback">
            Your phone number must be 10 digit long
        </small>
    </div>
    <div class="form-group">
        <label for="exampleFormControlTextarea1">Any other message...</label>
```

```html
                <textarea class="form-control" id="exampleFormControlTextarea1" rows="3"></textarea>
            </div>
            <button id="submit" class="btn btn-primary">Submit</button>
        </form>


    </div>


    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
        integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
        crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
        integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
        crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
        integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
        crossorigin="anonymous"></script>
        <script src="js/project4.js"></script>
</body>


</html>
```

**Code as described/written in the video**

```javascript
console.log("This is project 4");
const name = document.getElementById('name');
const email = document.getElementById('email');
const phone = document.getElementById('phone');
let validEmail = false;
let validPhone = false;
let validUser = false;
$('#failure').hide();
$('#success').hide();

// console.log(name, email, phone);
name.addEventListener('blur', ()=>{
```

```javascript
        console.log("name is blurred");
        // Validate name here
        let regex = /^[a-zA-Z]([0-9a-zA-Z]){2,10}$/;
        let str = name.value;
        console.log(regex, str);
        if(regex.test(str)){
            console.log('Your name is valid');
            name.classList.remove('is-invalid');
            validUser = true;
        }
        else{
            console.log('Your name is not valid');
            name.classList.add('is-invalid');
            validUser = false;


        }
    })

    email.addEventListener('blur', ()=>{
        console.log("email is blurred");
        // Validate email here
        let regex = /^([_\-\.0-9a-zA-Z]+)@([_\-\.0-9a-zA-Z]+)\.([a-zA-Z]){2,7}$/;
        let str = email.value;
        console.log(regex, str);
        if(regex.test(str)){
            console.log('Your email is valid');
            email.classList.remove('is-invalid');
            validEmail = true;
        }
        else{
            console.log('Your email is not valid');
            email.classList.add('is-invalid');
            validEmail = false;
        }
    })

    phone.addEventListener('blur', ()=>{
        console.log("phone is blurred");
```

```javascript
        // Validate phone here
        let regex = /^([0-9]){10}$/;
        let str = phone.value;
        console.log(regex, str);
        if(regex.test(str)){
            console.log('Your phone is valid');
            phone.classList.remove('is-invalid');
            validPhone = true;
        }
        else{
            console.log('Your phone is not valid');
            phone.classList.add('is-invalid');
            validPhone = false;


        }
    })

    let submit = document.getElementById('submit');
    submit.addEventListener('click', (e)=>{
        e.preventDefault();

        console.log('You clicked on submit');
        console.log(validEmail, validUser, validPhone);

        // Submit your form here
        if(validEmail && validUser && validPhone){
            let failure = document.getElementById('failure');

            console.log('Phone, email and user are valid. Submitting the form');
            let success = document.getElementById('success');
            success.classList.add('show');
            // failure.classList.remove('show');
            // $('#failure').alert('close');
            $('#failure').hide();
            $('#success').show();


        }
        else{
```

```
        console.log('One of Phone, email or user are not valid. Hence not submitting the form. Please correct the errors and try again
        let failure = document.getElementById('failure');
        failure.classList.add('show');
        // success.classList.remove('show');
        // $('#success').alert('hide');
        $('#success').hide();
        $('#failure').show();
        }


    })
```

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