

File Type Validation while Uploading it using JavaScript

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In this article, we will learn how to implement **file type validation** by checking file extension before uploading it using **Javascript**. This is a demonstration of client-side validation and is implemented to provide a nice user experience. In some cases, client-side validation is a much better method in comparison to the server-side method as it consumes less time.

Using JavaScript, you can easily check the selected file extension with allowed file extensions and can restrict the user to upload only the allowed file types. For this we will use **fileValidation() function**. We will create **fileValidation() function** that contains the complete file type validation code. In this function we will use [regex](#) to check the type of file by the given pattern.

Below examples implement the above approach:

Example 1: In this example we upload file having extensions .jpeg/.jpg/.png/.gif only. We store an extension list in a variable and compare each of them with the uploaded file extension. To separate the extension from the uploaded file we will use regular expression and also preview the uploaded file if the uploaded file extension follows the file type.

```
<!DOCTYPE html>
<html>
```

```
<head>
  <title>
```

```
    File Type Validation while
```

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Got It !

```

        color: green;
    }

```



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</head>

```

<body>
    <h1>
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    </h1>

    <h3>
        Validation of file type while
        uploading using JavaScript?
    </h3>

    <!-- File input field -->
    <p>Upload an Image</p>
    <input type="file" id="file"
        onchange="return fileValidation()" />

    <!-- Image preview -->
    <div id="imagePreview"></div>
    <script>
        function fileValidation() {
            var fileInput =
                document.getElementById('file');

            var filePath = fileInput.value;

            // Allowing file type
            var allowedExtensions =
                /(\.jpg|\.jpeg|\.png|\.gif)$/i;

            if (!allowedExtensions.exec(filePath)) {
                alert('Invalid file type');
                fileInput.value = '';
                return false;
            }
            else
            {

                // Image preview
                if (fileInput.files && fileInput.files[0]) {
                    var reader = new FileReader();
                    reader.onload = function(e) {
                        document.getElementById(
                            'imagePreview').innerHTML =

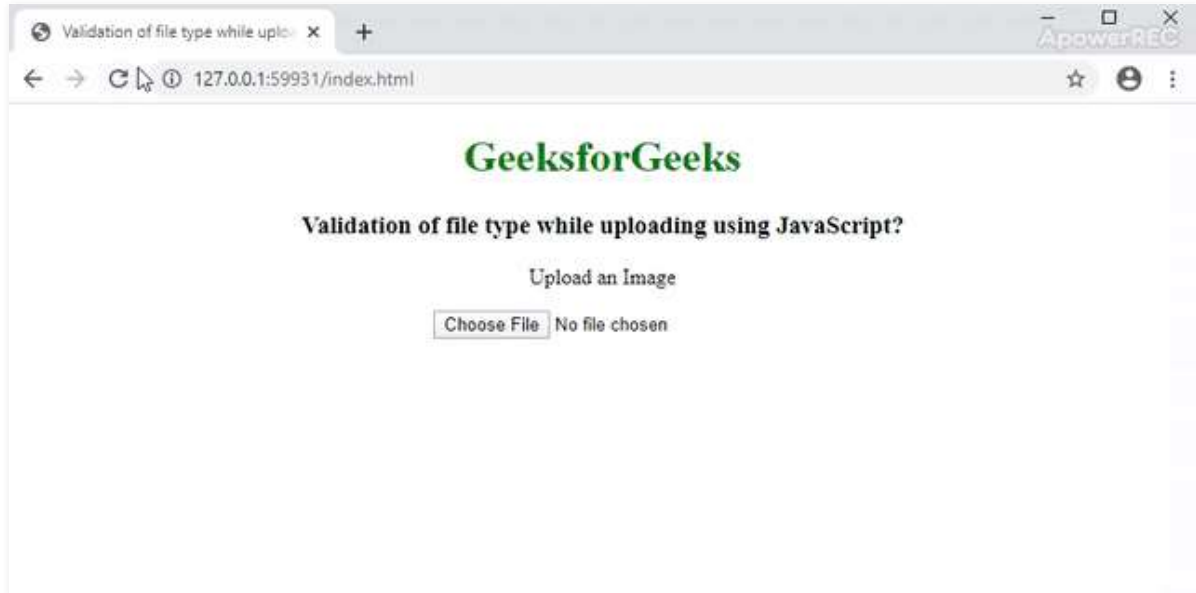
```

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Got It !

```
    }  
  }  
}</script>  
</body>  
</html>
```

Output:



Example 2: Uploading the file having extensions

.doc/.docx/.odt/.pdf/.tex/.txt/.rtf/.wps/.wks/.wpd only. Store the extension list in a variable and compare each of them with the uploaded file extension. To separate the extension from the uploaded file we will use a regular expression.

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```

<title>
    File Type Validation while
    Uploading it using JavaScript
</title>

<style>
    h1 {
        color: green;
    }

    body {
        text-align: center;
    }
</style>
</head>

<body>
    <h1>
        GeeksforGeeks
    </h1>

    <h3>
        Validation of file type while
        uploading using JavaScript?
    </h3>

    <!-- File input field -->
    <p>Upload an Image</p>
    <input type="file" id="file"
        onchange="return fileValidation()" />

    <!-- Image preview -->
    <div id="imagePreview"></div>
    <script>
        function fileValidation() {
            var fileInput =
                document.getElementById('file');

            var filePath = fileInput.value;

            // Allowing file type
            var allowedExtensions =
/(\.doc|\.docx|\.odt|\.pdf|\.tex|\.txt|\.rtf|\.wps|\.wks|\.wpd)$/i;

            if (!allowedExtensions.exec(filePath)) {
                alert('Invalid file type');
                fileInput.value = '';
                return false;
            }
        }
    </script>

```

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Output:

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HTML is the foundation of webpages, is used for webpage development by structuring websites and web apps. You can learn HTML from the ground up by following this [HTML Tutorial](#) and [HTML Examples](#).

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