

**K. J. Somaiya College of Engineering, Mumbai-77**  
(A Constituent College of Somaiya Vidyavihar University)

**Batch: A1**

**Roll No.: 16010123012**

**Experiment No. 07**

**TITLE: Demonstrate the Super Global Variables and File Uploading in PHP**

**AIM:** To understand various file operations and file upload in PHP

**Expected Outcome of Experiment:** Process external files in PHP.

**Books/ Journals/ Websites referred:**

Steve Prettyman, "Learn PHP 8 Using MySQL, JavaScript, CSS3, and HTML5", Apress  
2nd / 2020 edition.

**PHP Basic Concepts Learned With Syntax:**

```
fopen("example.txt", "r");  
fread($file, filesize("example.txt"));  
fopen("example.txt", "w");  
fwrite($file, "New text");  
fopen("example.txt", "a");  
unlink("example.txt");  
header('Content-Disposition: attachment; filename="example.txt"');  
readfile("example.txt");
```

**Description of the program implemented with output:**

It asks the user to upload files of specific types (JPG, PNG, TXT, PDF, DOCX), and upon submission, it displays "File uploaded successfully."

**Code:**

```
<?php  
if ($_SERVER["REQUEST_METHOD"] == "POST" &&  
isset($_FILES["fileToUpload"])) {  
    $targetDir = "uploads/";  
    $targetFile = $targetDir . basename($_FILES["fileToUpload"]["name"]);  
    $uploadOk = 1;  
    $fileType = strtolower(pathinfo($targetFile, PATHINFO_EXTENSION));  
  
    if (file_exists($targetFile)) {  
        echo "File already exists.";  
        $uploadOk = 0;  
    }  
}
```

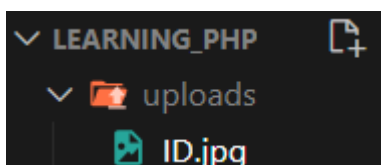
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```
$allowedTypes = array("jpg", "png", "txt", "pdf", "docx");
if (!in_array($fileType, $allowedTypes)) {
    echo "Only JPG, PNG, TXT, PDF, DOCX files are allowed.";
    $uploadOk = 0;
}

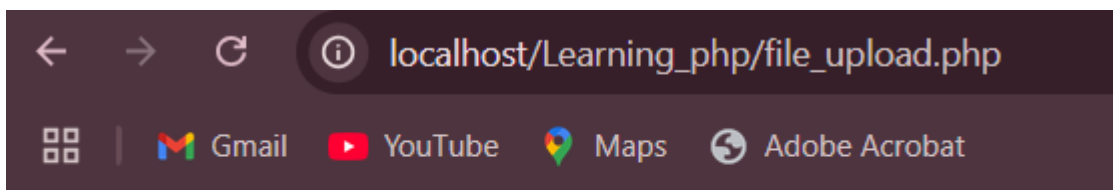
if ($uploadOk == 1) {
    if (move_uploaded_file($_FILES["fileToUpload"]["tmp_name"],
    $targetFile)) {
        echo "File uploaded successfully: " .
        htmlspecialchars(basename($_FILES["fileToUpload"]["name"]));
    } else {
        echo "Error uploading file.";
    }
}
?>

<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>File Upload & Operations</title>
    <style>
        * {
            margin: 10px;
            font-family: Georgia, "Times New Roman", Times, serif;
            font-size: 24px;
        }
    </style>
</head>

<body>
    <h2>Upload File</h2>
    <form action="" method="post" enctype="multipart/form-data"><br>
        <input type="file" name="fileToUpload"><br>
        <input type="submit" value="Upload File">
    </form>
</body>
</html>
```



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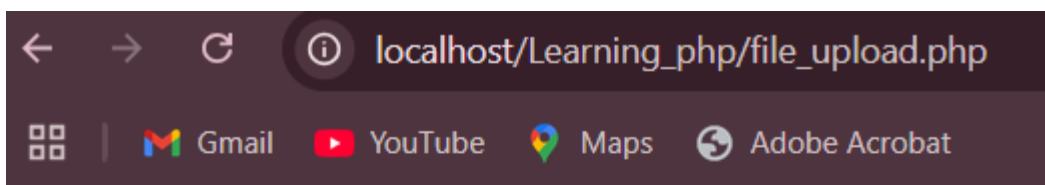


Only JPG, PNG, TXT, PDF, DOCX files are allowed.

## Upload File

Choose File car.sql

Upload File



File uploaded successfully: ID.jpg

## Upload File

Choose File No file chosen

Upload File

### Conclusion:

I successfully implemented and understood the use of superglobal variables in PHP, such as \$\_FILES, \$\_POST, and \$\_GET, to handle file uploads and various file operations. Additionally, I learned the importance of secure file handling and validation to prevent unauthorized file uploads.

### Post Lab Questions:

**Perform following file operations with respect to problem Program:**

Open, read and write with various modes, append, delete and downloading file.

**Answer: Code with output screenshots**

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```
<?php
$targetDir = "uploads/";

if ($_SERVER["REQUEST_METHOD"] == "POST" &&
isset($_FILES["fileToUpload"])) {
    $fileName = basename($_FILES["fileToUpload"]["name"]);
    $targetFile = $targetDir . $fileName;
    $fileType = strtolower(pathinfo($targetFile, PATHINFO_EXTENSION));

    $allowedTypes = array("jpg", "png", "txt", "pdf", "docx");
    if (in_array($fileType, $allowedTypes)) {
        if (move_uploaded_file($_FILES["fileToUpload"]["tmp_name"],
$targetFile)) {
            echo "File uploaded successfully: " . htmlspecialchars($fileName);
        } else {
            echo "Error uploading file.";
        }
    } else {
        echo "Invalid file type. Only JPG, PNG, TXT, PDF, and DOCX files are
allowed.";
    }
}

if (isset($_POST['readFile'])) {
    $file = $targetDir . $_POST['readFile'];
    if (file_exists($file)) {
        echo "<h3>File Contents:</h3><pre>" .
htmlspecialchars(file_get_contents($file)) . "</pre>";
    } else {
        echo "File does not exist.";
    }
}

if (isset($_POST['writeFile']) && isset($_POST['writeText'])) {
    $file = $targetDir . $_POST['writeFile'];
    file_put_contents($file, $_POST['writeText']);
    echo "File written successfully.";
}

if (isset($_POST['appendFile']) && isset($_POST['appendText'])) {
    $file = $targetDir . $_POST['appendFile'];
    file_put_contents($file, $_POST['appendText'] . PHP_EOL, FILE_APPEND);
    echo "Text appended successfully.";
}

if (isset($_POST['deleteFile'])) {
    $file = $targetDir . $_POST['deleteFile'];
    if (file_exists($file)) {
```

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```
        unlink($file);
        echo "File deleted successfully.";
    } else {
        echo "File not found.";
    }
}

if (isset($_POST['downloadFile'])) {
    $file = $targetDir . $_POST['downloadFile'];
    if (file_exists($file)) {
        header("Content-Disposition: attachment; filename=" .
basename($file));
        header("Content-Type: application/octet-stream");
        readfile($file);
        exit;
    } else {
        echo "File not found.";
    }
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0"
/>
    <title>File Upload & Operations</title>
    <style>
        * {
            margin: 10px;
            text-align: center;
            font-family: Georgia, "Times New Roman", Times, serif;
            font-size: 20px;
        }
    </style>
</head>

<body>
    <h2>Upload a File</h2>
    <form action="" method="post" enctype="multipart/form-data"><br>
        <input type="file" name="fileToUpload" required><br>
        <input type="submit" value="Upload File">
    </form>

    <h2>File Operations</h2>

    <form method="post">
```

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```
<input type="text" name="readFile" placeholder="Enter file name"><br>
<input type="submit" value="Read File"><br>
</form>

<form method="post">
  <input type="text" name="writeFile" placeholder="Enter file
name"><br>
  <textarea name="writeText" placeholder="Enter text to
write"></textarea><br>
  <input type="submit" value="Write to File">
</form>

<form method="post">
  <input type="text" name="appendFile" placeholder="Enter file
name"><br>
  <textarea name="appendText" placeholder="Enter text to
append"></textarea><br>
  <input type="submit" value="Append to File">
</form>

<form method="post">
  <input type="text" name="deleteFile" placeholder="Enter file
name"><br>
  <input type="submit" value="Delete File"><br>
</form>

<form method="post">
  <input type="text" name="downloadFile" placeholder="Enter file
name"><br>
  <input type="submit" value="Download File"><br>
</form>
</body>
</html>
```

File uploaded successfully: wpl.txt

## Upload a File

Choose File No file chosen

Upload File

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**File Contents:**

Hello World!

File written successfully.

**Upload a File**

**File Contents:**

Hello PHP

Text appended successfully.

**Upload a File**

**File Contents:**

Hello PHPHello React

File deleted successfully.

**Upload a File**