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Upload and Store Image File in Database using PHP and MySQL

By: CodexWorld | In: PHP | Last Updated: Feb 25, 2021

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Server-side file upload can be easily implemented using PHP. There are various ways available to <u>upload</u> <u>image to server</u> and display images on the webpage. Generally, in a dynamic web application, the uploaded image is stored in a directory of the server and the file name is inserted in the database. Later, the images are retrieved from the server based on the file name stored in the database and display on the web page.

The image can be <u>uploaded directly to the database</u> without storing on the server. But it will increase the database size and web page load time. So, it's always a good idea to upload images to the server and store file names in the database. In this tutorial, we will show you the entire process to **upload and store the** image file in MySQL database using PHP.

The example code demonstrates the process to implement the file upload functionality in the web application and the following functionality will be implemented.

- HTML form to upload image.
- Upload image to server using PHP.





Create Datbase Table

To store the image file name a table need to be created in the database. The following SQL creates an images table with some basic fields in the MySQL database.

```
CREATE TABLE `images` (
  `id` int(11) NOT NULL AUTO_INCREMENT,
  `file_name` varchar(255) COLLATE utf8_unicode_ci NOT NULL,
  `uploaded_on` datetime NOT NULL,
  `status` enum('1','0') COLLATE utf8_unicode_ci NOT NULL DEFAULT '1',
  PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8 COLLATE=utf8_unicode_ci;
```

Database Configuration (dbConfig.php)

The dbConfig.php file is used to connect and select the MySQL database. Specify the database hostname (\$dbHost), username (\$dbUsername), password (\$dbPassword), and name (\$dbName) as per your MySQL credentials.

```
<?php
// Database configuration
$dbHost = "localhost";
$dbUsername = "root";
$dbPassword = "root";
$dbName = "codexworld";

// Create database connection
$db = new mysqli($dbHost, $dbUsername, $dbPassword, $dbName);

// Check connection
if ($db->connect_error) {
    die("Connection failed: " . $db->connect_error);
}

?>
```

Upload Form HTML



Create an HTML form to allow the user to choose a file they want to upload. Make sure <form> tag contains the following attributes.



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enctype= multipart/10mi-uata

Also, make sure <input> tag contains | type="file" | attribute.

Choose File No file chosen

Upload

The file upload form will be submitted to the upload.php file to upload image to the server.

Upload File to Server and Store in Database (upload.php)

The upload.php file handles the image upload functionality and shows the status message to the user.

- Include the database configuration file to connect and select the MySQL database.
- Get the file extension using **pathinfo()** function in PHP and validate the file format to check whether the user selects an image file.
- Upload image to server using move_uploaded_file() function in PHP.
- Insert image file name in the MySQL database using PHP.
- Upload status will be shown to the user.



```
// Upload file to server
        if(move uploaded file($ FILES["file"]["tmp name"], $targetFilePath)){
            // Insert image file name into database
            $insert = $db->query("INSERT into images (file_name, uploaded_on) VAL
UES ('".$fileName."', NOW())");
            if($insert){
                $statusMsg = "The file ".$fileName. " has been uploaded successfu
11y.";
            }else{
                $statusMsg = "File upload failed, please try again.";
        }else{
            $statusMsg = "Sorry, there was an error uploading your file.";
   }else{
        $statusMsg = 'Sorry, only JPG, JPEG, PNG, GIF, & PDF files are allowed t
o upload.';
}else{
    $statusMsg = 'Please select a file to upload.';
}
// Display status message
echo $statusMsg;
?>
```

Display Images from Database

Now we will retrieve the uploaded images from the server based on the file names in the database and display images in the web page.

- Include the database configuration file.
- Fetch images from MySQL database using PHP.
- List images from the **uploads** directory of the server.

```
<?php
// Include the database configuration file
include 'dbConfig.php';

// Get images from the database</pre>
```

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```
if($query->num_rows > 0){
    while($row = $query->fetch_assoc()){
        $imageURL = 'uploads/'.$row["file_name"];
}

<img src="<?php echo $imageURL; ?>" alt="" />
<?php }
}else{ ?>
        No image(s) found...
<?php } ?>
```



SEE ALSO: Create Dynamic Image Gallery with jQuery, PHP & MySQL

Conclusion

Here we have shown the most effective way to implement image upload functionality on the website. You can easily extend the file upload functionality as per your requirements. For providing the better user-interface you can integrate the Ajax File Upload functionality.

SEE ALSO: Upload multiple images using jQuery, Ajax and PHP

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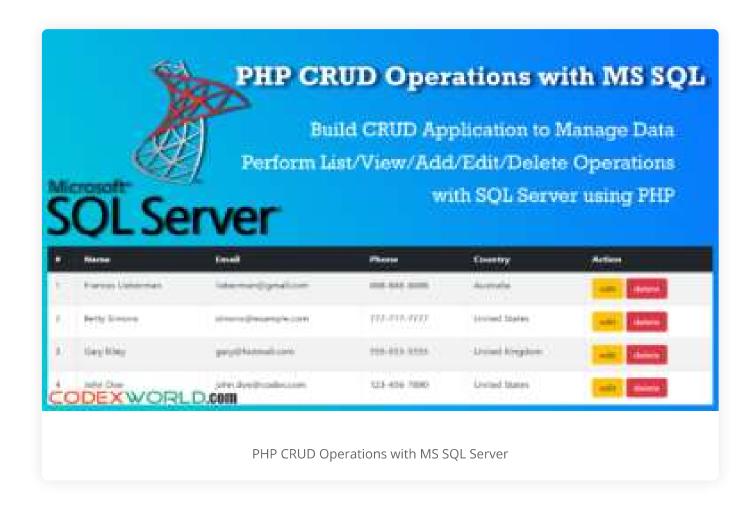


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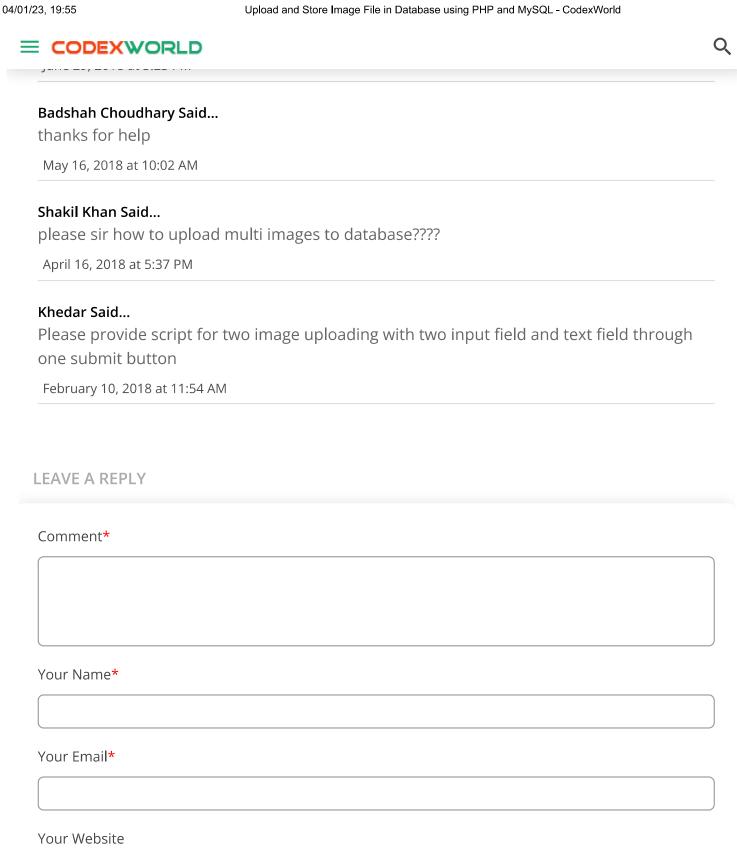
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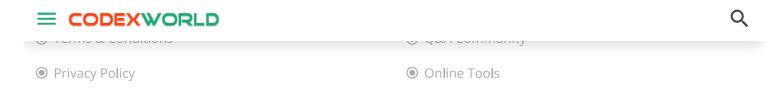
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