

Practical 12:

Create a project using above all concepts by your choice which should have minimum below functionality

- Login Page with validation in database for authenticity
- Form Validation using JavaScript.
- Entire site should be styled using CSS.
- Maintaining Session or Cookies
- Add / delete / update/ search as applicable.
- File/ Image Upload.
- Report Generation (If applicable).

WEBSITE NAME: UNICORN GALLERY

INFO: IMAGE GALLERY SYSTEM USING HTML/CSS/JAVASCRIPT/BOOTSTRAP/PHP WITH VALIDATION, AUTHENTICATION AND FILE UPLOADING FUNCTIONALITY.

By: SAHAL PATHAN

Enrollment No.: 190110107057

Batch: 1C07

BUILDING PROJECT:**1)Creating database gallery**

The screenshot shows the MySQL Workbench interface. At the top, there's a navigation bar with tabs: Databases, SQL, Status, User accounts, and Export. Below the navigation bar, the main title is "Databases". On the left, there's a "Create database" button with a gear icon. In the center, there are two input fields: one containing "unicorn" and another for "Collation" with a dropdown arrow. To the right of these fields is a large "Create" button.

2)Creating two tables user_gallery and users

```

1 CREATE TABLE IF NOT EXISTS `users` (
2   `id` int(11) NOT NULL AUTO_INCREMENT,
3   `username` varchar(50) NOT NULL,
4   `email` varchar(50) NOT NULL,
5   `password` varchar(50) NOT NULL,
6   `create_datetime` datetime NOT NULL,
7   PRIMARY KEY (`id`)
8 );

```

User table Schema

The screenshot shows the MySQL Workbench interface for the 'users' table. The table has five columns: id, username, email, password, and create_datetime. The 'id' column is defined as int(11) with AUTO_INCREMENT, while the others are varchar(50) with utf8mb4_general_ci collation. There are checkboxes for each column, and action buttons for Change, Drop, Primary, Unique, Index, Spatial, Fulltext, and Add to central columns.

User_gallery Table Schema

The screenshot shows the MySQL Workbench interface for the 'image_gallery' table. The table has three columns: id, title, and image. The 'id' column is defined as int(11) with AUTO_INCREMENT, while the others are varchar(255) with utf8mb4_general_ci collation. There are checkboxes for each column, and action buttons for Change, Drop, Primary, Unique, Index, Spatial, Fulltext, and Add to central columns.

2)Structure of project

Unicorn/
CSS/
images/
uploads/

Name	Date Modified	Size	Kind
about.html	Today at 12:04 PM	2 KB	HTML text
auth_session.php	Yesterday at 11:54 AM	165 bytes	PHP script
contact.html	Today at 11:18 AM	2 KB	HTML text
CSS	Today at 12:44 AM	--	Folder
dashboard.php	Today at 12:59 PM	4 KB	PHP script
db.php	Yesterday at 12:27 PM	183 bytes	PHP script
delete.php	Today at 11:08 AM	753 bytes	PHP script
images	Yesterday at 4:14 PM	--	Folder
index.html	Today at 5:56 AM	2 KB	HTML text
login.php	Today at 12:25 PM	2 KB	PHP script
logout.php	Today at 12:59 PM	136 bytes	PHP script
registration.php	Today at 12:30 PM	3 KB	PHP script
upload.php	Today at 11:09 AM	1 KB	PHP script
uploads	Today at 1:04 PM	--	Folder
validate.js	Today at 12:31 PM	1 KB	JavaScript

Name
gallery.css
index.css
style.css

Name
banner.jpeg
dashboard.jpeg
index.jpeg
login.jpeg
overlay.png

Name
1651476824.jpg
1651476835.JPG

3) important files for database connectivity and session management**Db.php**

```
<?php  
$con = mysqli_connect("localhost", "root", "", "unicorn");  
// Check connection  
if (mysqli_connect_errno()) {  
    echo "Failed to connect to MySQL: " . mysqli_connect_error();  
}  
  
?>
```

Auth_session.php

```
<?php  
//include auth_session.php file on all user panel pages  
session_start();  
if (!isset($_SESSION["username"])) {  
    header("Location: login.php");  
    exit();  
}  
  
?>
```

Logout.php

```
<?php  
session_start();  
// Destroy session  
if (session_destroy()) {  
    // Redirecting To Home Page  
    header("Location: login.php");  
}  
  
?>
```

4) Home page creation and mapping to other pages**Index.html****Code:**

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Home</title>

    <link rel="stylesheet" type="text/css"
        href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
    />

    <link rel="stylesheet" type="text/css" href="CSS/index.css" />

</head>

<body>
    <div class="container-fluid banner">
        <div class="row">
            <div class="col-md-12">

                <div class="navbar navbar-md">
                    <div class="navbar-brand">
                        UNICORN GALLERY
                    </div>
                    <ul class="nav">
                        <li class="nav-item">
                            <a class="nav-link" href="#">HOME</a>
                        </li>
                        <li class="nav-item">
                            <a class="nav-link" href="about.html">ABOUT US</a>
                        </li>
                        <li class="nav-item">
                            <a class="nav-link" href="contact.html">CONTACT</a>
                        </li>
                        <li class="nav-item">
                            <a class="nav-link" href="login.php">LOGIN</a>
                        </li>
                        <li class="nav-item">
                            <a class="nav-link" href="registration.php">SIGNUP</a>
                        </li>
                    </ul>
                </div>
            </div>
        </div>
    </div>
</body>
```

```
</div>
<div class="col-md-6 offset-md-3 info">
    <p class="text-center">EXPLORE OUR GALLERY</p>
    <a href="login.php" class="btn btn-md text-center">GET STARTED</a>
</div>
</div>
</div>

</body>

</html>
```

Index.css

Code:

```
body {
    margin: 0;
    padding: 0;
    background: #fff;
    font-family: sans-serif;
}

.banner {
    height: 100vh;
    width: 100%;
    background: url('/Unicorn/images/index.jpeg');
    /*url('/images/overlay.png');*/
    background-position: center;
    background-size: cover;
    /*background-attachment: fixed;*/
    background-repeat: no-repeat;
}

.banner .navbar {
    margin-top: 4%;
}

.banner .navbar-brand {
    color: #fff;
    font-size: 1.8em;
    font-weight: 700;
    margin-left: 10%;
}

.banner .nav {
    margin-right: 10%;
}

.banner .navbar li a {
```

```
color: #aaa;
font-size: 1.2em;
}

.banner .info {
margin-top: 15%;
transform: translateY(-15%);
}

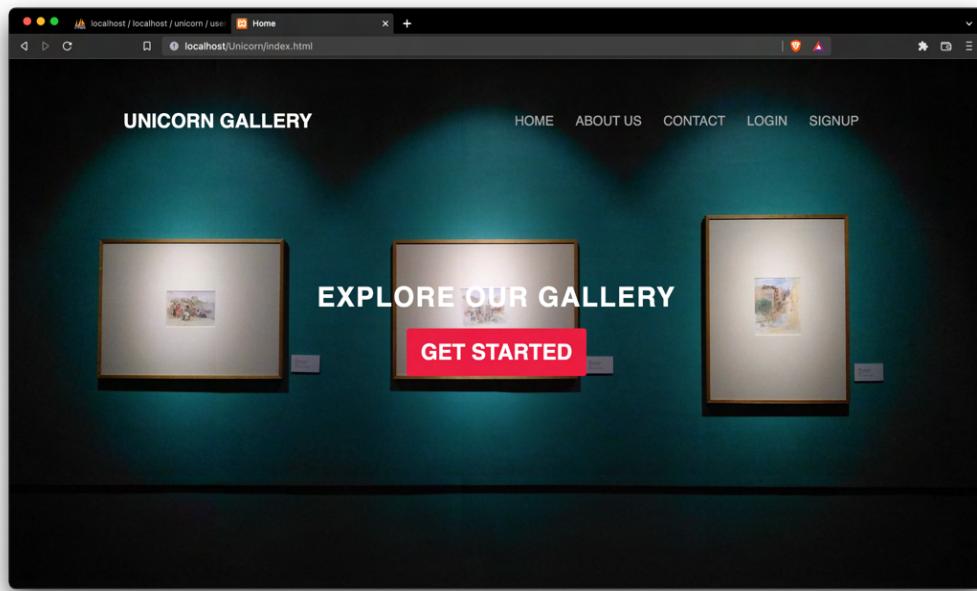
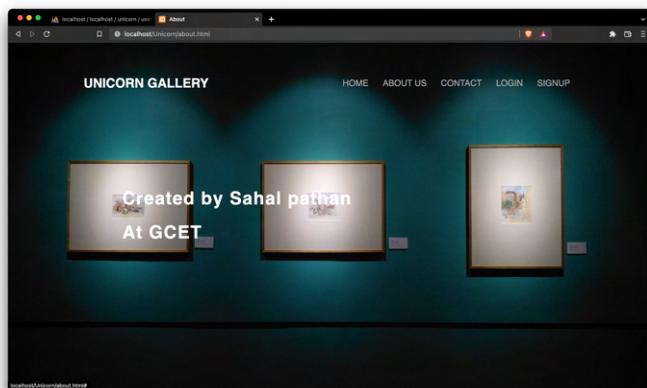
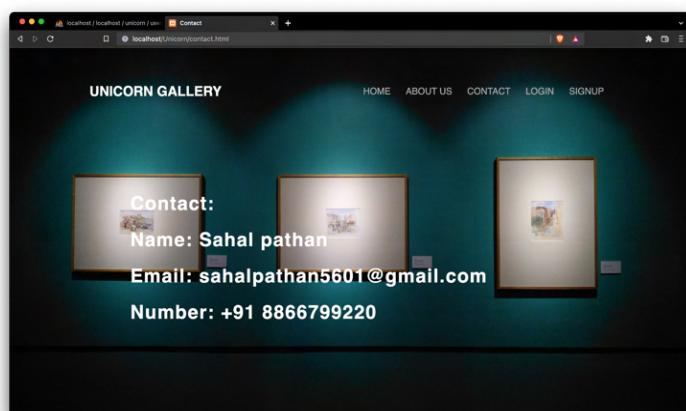
.banner .info p {
font-size: 2.5em;
font-weight: 700;
color: #fff;
letter-spacing: 2px;
}

.banner .info a {
margin-left: 50%;
transform: translateX(-50%);
color: #fff;
background: #e91d43;
padding: 10px 20px;
font-size: 2em;
font-weight: 600;
}

.banner .info a:hover {
background: #e91e63;
}
```

Output:

Note: index/contact/about are similar pages i.e. html code similar

Home page:**About page:****Contact page:**

5) Exploring Registration and Form Validation:

Registration.php

Code:

```
<?php
session_start();
?>
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8" />
    <title>Registration</title>
    <link rel="stylesheet" href="CSS/style.css" />
    <script type="text/javascript" src="validate.js"></script>
</head>

<body>
    <?php
    require('db.php');
    // When form submitted, insert values into the database.
    if (isset($_POST['submit'])) {
        // removes backslashes
        $username = stripslashes($_POST['username']);
        //escapes special characters in a string
        $username = mysqli_real_escape_string($con, $username);
        $email   = stripslashes($_POST['email']);
        $email   = mysqli_real_escape_string($con, $email);
        $password = stripslashes($_POST['password']);
        $password = mysqli_real_escape_string($con, $password);
        $create_datetime = date("Y-m-d H:i:s");

        $query  = "INSERT into `users` (username, password, email, create_datetime)
                  VALUES ('$username', '" . md5($password) . "', '$email', '$create_datetime')";
        $result = mysqli_query($con, $query);

        if ($result) {
            echo "<div class='form'>
                    <h3>You are registered successfully.</h3><br/>
                    <p class='link'>Click here to <a href='login.php'>Login</a></p>
                </div>";
        } else {
            echo "<div class='form'>
                    <h3>Required fields are missing.</h3><br/>
                    <p class='link'>Click here to <a href='registration.php'>registration</a>
again.</p>
                </div>";
        }
    } else {

```

```

?>
<form class="form" action="registration.php" method="post"
name="registrationForm" onsubmit="return validRegForm()">
    <h1 class="login-title">Registration</h1>
    <input type="text" class="login-input" id="username" name="username"
placeholder="Username" />
    <br><span id="message"></span>
    <input type="text" class="login-input" id="email" name="email"
placeholder="Email Adress" />
    <br><span id="message"></span>
    <input type="password" class="login-input" id="password" name="password"
placeholder="Password" />
    <br><span id="message"></span>
    <input type="submit" name="submit" value="Register" class="login-button">
    <p class="link"><a href="login.php">Click to Login</a></p>
    <br>
    <br>
    <br>
    <div class="link">
        <a href='index.html'>
            <input type="button" class="home" value="HOME" name="submit" />
        </a>
    </div>
</form>
<?php
}
?>
</body>

</html>

```

Style.css

Code:

```

body {
    background-image: url('/Unicorn/images/login.jpeg');
    background-size: 100%;

    /*#3e4144;*/
}

.form {
    margin: 50px auto;
    width: 300px;
    padding: 30px 25px;
    background: white;
}

h1.login-title {
    color: #666;
}

```

```
margin: 0px auto 25px;
font-size: 25px;
font-weight: 300;
text-align: center;
}

.login-input {
    font-size: 15px;
    border: 1px solid #ccc;
    padding: 10px;
    margin-bottom: 25px;
    height: 25px;
    width: calc(100% - 23px);
}

.login-input:focus {
    border-color: #6e8095;
    outline: none;
}

.login-button {
    color: #fff;
    background: #06f5e5;
/*#55a1ff;*/
    border: 0;
    outline: 0;
    width: 100%;
    height: 50px;
    font-size: 16px;
    text-align: center;
    cursor: pointer;
}

.link {
    color: #666;
    font-size: 15px;
    text-align: center;
    margin-bottom: 0px;
}

.home {
    background-color: black;
    border: 2px solid black;
    color: rgb(3, 234, 242);
    padding: 5px 10px;
    text-align: center;
    display: inline-block;
    font-size: 20px;
}
```

```

margin: 10px 30px;
cursor: pointer;
text-align: center;
}

.link a {
color: black;
}

h3 {
font-weight: normal;
text-align: center;
}

```

Validate.js**Code:**

```

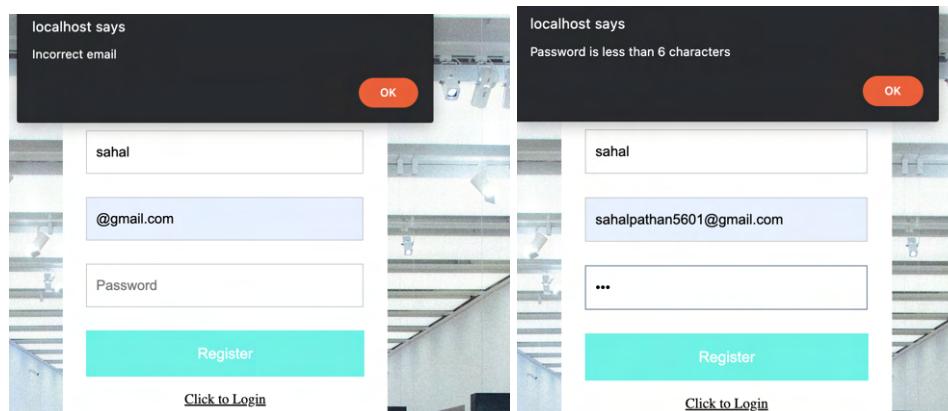
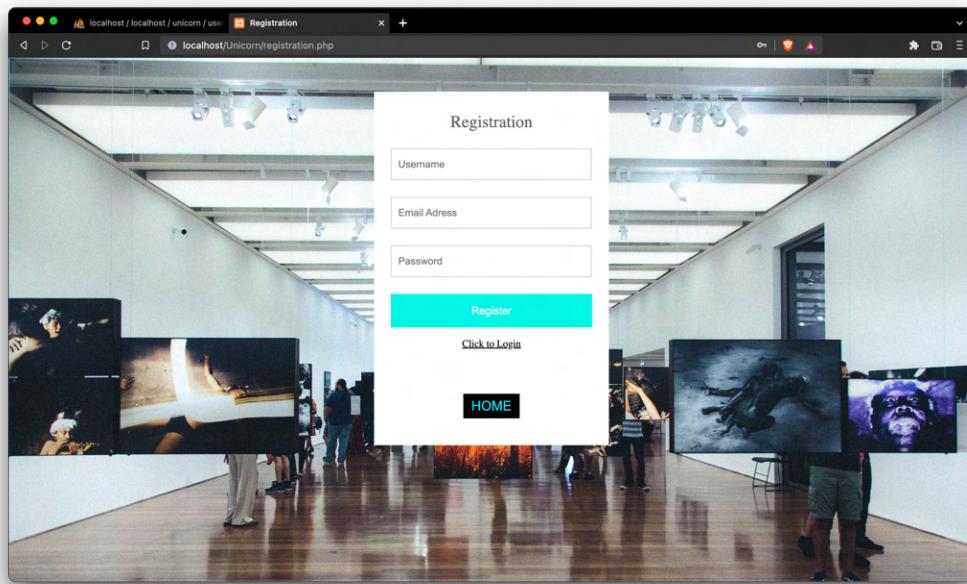
function validLoginForm() {
var x = document.forms["loginForm"]["username"].value;
var z = document.forms["loginForm"]["password"].value;
if (x == null || x == "") {
    alert("Enter name");
    return false;
}
if (z == null || z == "") {
    alert("Enter password");
    return false;
}
else if (z.length < 6) {
    alert("Password is less than 6 characters");
    return false;
}
return true;
}

function validRegForm() {
var x = document.forms["registrationForm"]["username"].value;
var y = document.forms["registrationForm"]["email"].value;
var z = document.forms["registrationForm"]["password"].value;
var mailformat = /\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/;

if (x == null || x == "") {
    alert("Enter name");
    return false;
}
if (y == null || y == "") {
    alert("Enter email");
    return false;
}
}

```

```
if (!y.match(mailformat)) {  
    alert("Incorrect email");  
    return false;  
}  
if (z == null || z == "") {  
    alert("Enter password");  
    return false;  
}  
if (z.length < 6) {  
    alert("Password is less than 6 characters");  
    return false;  
}  
  
return true;  
}
```

Output:

A screenshot showing two windows. On the left is a success message: "You are registered successfully." with a "Click here to Login" link. On the right is a MySQL database interface showing a table named "users". The table has columns: id, username, email, password, and create_datetime. One row is shown with id 11, username "sahal", email "sahalpathan5601@gmail.com", password "294de3557d9d00b3d2d8a1e6aab028cf", and create_datetime "2022-05-02 09:13:37". There are buttons for "Browse", "Structure", "SQL", "Search", "Insert", "Export", "Import", "Privileges", "Operations", and "Trac".

6) Exploring login:

Login.php

Code:

```
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8" />
    <title>Login</title>
    <link rel="stylesheet" href="CSS/style.css" />
    <script type="text/javascript" src="validate.js"></script>
</head>

<body>
    <?php
    require('db.php');
    session_start();
    // When form submitted, check and create user session.
    if (isset($_POST['submit'])) {
        $username = stripslashes($_POST['username']); // removes backslashes
        $username = mysqli_real_escape_string($con, $username);
        $password = stripslashes($_POST['password']);
        $password = mysqli_real_escape_string($con, $password);
        // Check user is exist in the database
        $query   = "SELECT * FROM `users` WHERE username='$username'
                    AND password='". md5($password) . "'";
        $result = mysqli_query($con, $query); //or die(mysql_error());
        $rows = mysqli_num_rows($result);

        if ($rows == 1) {
            $_SESSION['username'] = $username;
            // Redirect to user dashboard page
            header("Location: dashboard.php");
        } else {
            echo "<div class='form'>
                    <h3>Incorrect Username/password.</h3><br/>
                    <p class='link'>Click here to <a href='login.php'>Login</a> again.</p>
                </div>";
        }
    } else {
    ?>
        <form class="form" method="post" name="loginForm" onsubmit="return
validLoginForm()">
            <h1 class="login-title">Login</h1>

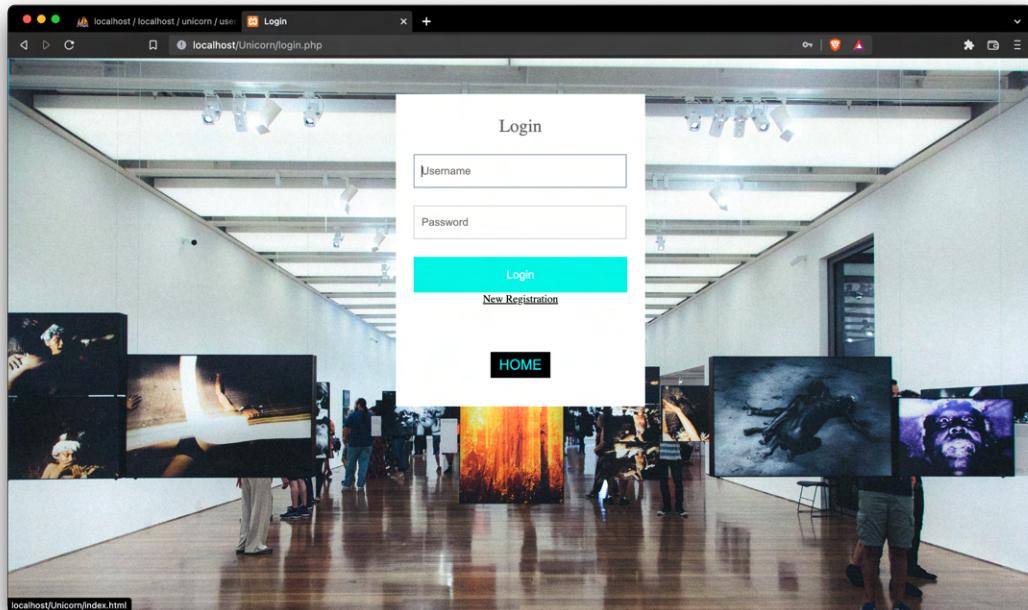
            <span id="message1" style="color: red;"></span>
            <input type="text" class="login-input" id="username" name="username"
placeholder="Username" autofocus="true" />
    
```

```
<span id="message2" style="color: red;"></span>
<input type="password" class="login-input" id="password" name="password"
placeholder="Password" />

<input type="submit" class="login-button" value="Login" name="submit" />
<div class="link"><a href="registration.php">New Registration</a></div>
<br>
<br>
<br>
<div class="link">
<a href="index.html">
<input type="button" class="home" value="HOME" name="submit" />
</a>
</div>
</form>
<?php
}
?>
</body>

</html>
```

Output:



7) Dashboard and its functions:

Note: after login it will direct to dashboard

Dashboard.php

Code:

```
<?php
include_once("auth_session.php");
?>
<!DOCTYPE html>
<html>

<head>
    <title>Dashboard Gallery </title>
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <script
src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dist/jquery.slim.min.js"></script>
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstrap.min.css"
media="screen">
    <script
src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dist/jquery.slim.min.js"></script>
    <link rel="stylesheet" href="CSS/gallery.css">

</head>

<body>
    <div class="container">
        <h3><b>UNICORN</b></h3>
        <div class="link">
            <a href='index.html'>
                <input type="button" class="home" value="HOME" name="submit" />
            </a>
            <a href='logout.php'>
                <input type="button" class="home" value="LOGOUT" name="submit" />
            </a>
        </div>
        <form action="upload.php" class="form-image-upload" method="POST"
enctype="multipart/form-data">

            <!-- code to show error message -->
            <?php if (!empty($_SESSION['error'])) { ?>
                <div class="alert alert-danger">
                    <strong>Whoops!</strong> There were some problems with your
input.<br><br>
                    <ul>
                        <li><?php echo $_SESSION['error']; ?></li>
                </ul>
            </div>
        </form>
    </div>
</body>
```

```

        </ul>
    </div>
<?php unset($_SESSION['error']);
} ?>

<!-- code to show success message -->
<?php if (!empty($_SESSION['success'])) { ?>
    <div class="alert alert-success alert-block">
        <button type="button" class="close" data-dismiss="alert">x</button>
        <strong><?php echo $_SESSION['success']; ?></strong>
    </div>
<?php unset($_SESSION['success']);
} ?>

<div class="row">
    <div class="col-md-5">
        <strong>Title:</strong>
        <input type="text" name="title" class="form-control" placeholder="Title">
    </div>
    <div class="col-md-5">
        <strong>Image:</strong>
        <input type="file" name="image" class="form-control">
    </div>
    <div class="col-md-2">
        <br />
        <button type="submit" class="btn btn-success">Upload</button>
    </div>
</div>
</form>

<div class="row">
    <div class='list-group gallery' style="width:100%;">
        <?php
        require('db.php');
        include_once("auth_session.php");

        $sql = "SELECT * FROM `image_gallery` ";
        $images = mysqli_query($con, $sql);

        while ($image = mysqli_fetch_assoc($images)) {
            ?>
            <div class='col-sm-3' style="float: left;">
                <a class="thumbnail fancybox" rel="ligthbox" href="uploads/<?php echo
$image['image'] ?>">

```

```


<div class='text-center'>
    <small class='text-muted'><?php echo $image['title'] ?></small>
</div> <!-- text-center / end -->
</a>

<!-- form to delete image -->
<form action="delete.php" name="delForm" method="POST">
    <?php
        $id = $image['id'];
    ?>
    <input type="hidden" name="id" value="<?php echo $id; ?>">
    <button type="submit" title="delete" value="submit" class="close-icon
btn btn-danger"><i class="glyphicon glyphicon-remove"></i></button>
</form>

</div> <!-- col-6 / end -->
<?php } ?>

</div> <!-- list-group / end -->
</div> <!-- row / end -->
</div> <!-- container / end -->
</body>

</html>

<script type="text/javascript">
$(document).ready(function() {
    $(".fancybox").fancybox({
        openEffect: "none",
        closeEffect: "none",
    });
});
</script>

```

Gallery.css

```

body {
    background-image: url('/Unicorn/images/dashboard.jpeg');
    background-size: 100%;
}

h3 {
    text-align: center;
    font-size: 35px;
}

.home {
    background-color: black;
    border: 2px solid black;
}

```

```
color: rgb(3, 234, 242);
padding: 5px 10px;
text-align: center;
display: inline-block;
font-size: 20px;
margin: 10px 30px;
cursor: pointer;
text-align: center;
}

.link {
    color: #666;
    font-size: 15px;
    text-align: center;
    margin-bottom: 0px;
}

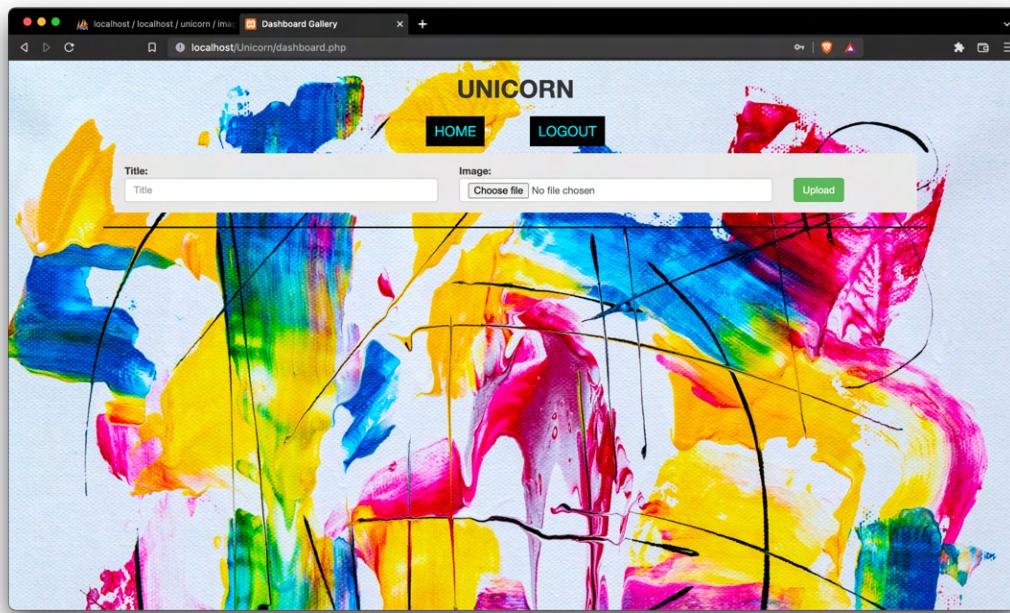
.gallery {
    display: inline-block;
    margin-top: 20px;
    border: 1px solid black;
}

.close-icon {
    border-radius: 50%;
    position: absolute;
    right: 5px;
    top: -10px;
    padding: 5px 8px;
}

.form-image-upload {
    background: #e8e8e8 none repeat scroll 0 0;
    padding: 15px;
}

.carousel-inner>.item>a>img,
.carousel-inner>.item>img,
.img-responsive,
.thumbnail a>img,
.thumbnail>img {
    width: 300px !important;
    height: 160px !important;
}
```

Output:



- we can go to home page or logout our session
- we can upload image
- logout will redirect to login page and we cannot access dashboard

a) Inserting images

Upload.php

Code:

```
<?php
require('db.php');
include("auth_session.php");

if (isset($_POST) && !empty($_FILES['image']['name']) && !empty($_POST['title'])) {

    $name = $_FILES['image']['name'];
    $title = $_POST['title'];
    list($txt, $ext) = explode(".", $name);
    $image_name = time() . "." . $ext;
    $tmp = $_FILES['image']['tmp_name'];

    if (move_uploaded_file($tmp, 'uploads/' . $image_name)) {

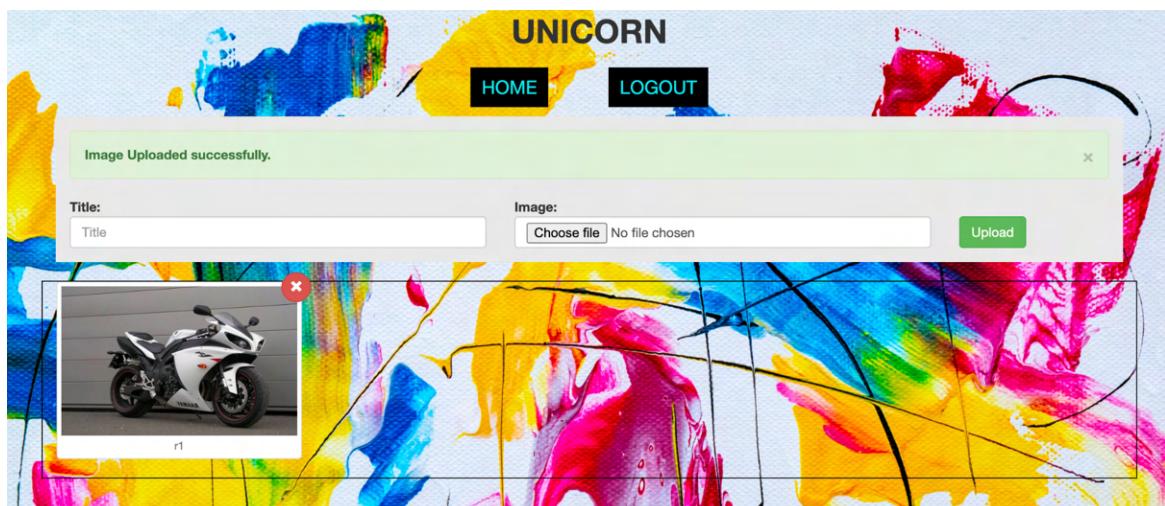
        $sql = "INSERT INTO `image_gallery` (`title`, `image`) VALUES ('" . $title . "', '" .
$image_name . "')";

        $result = mysqli_query($con, $sql);

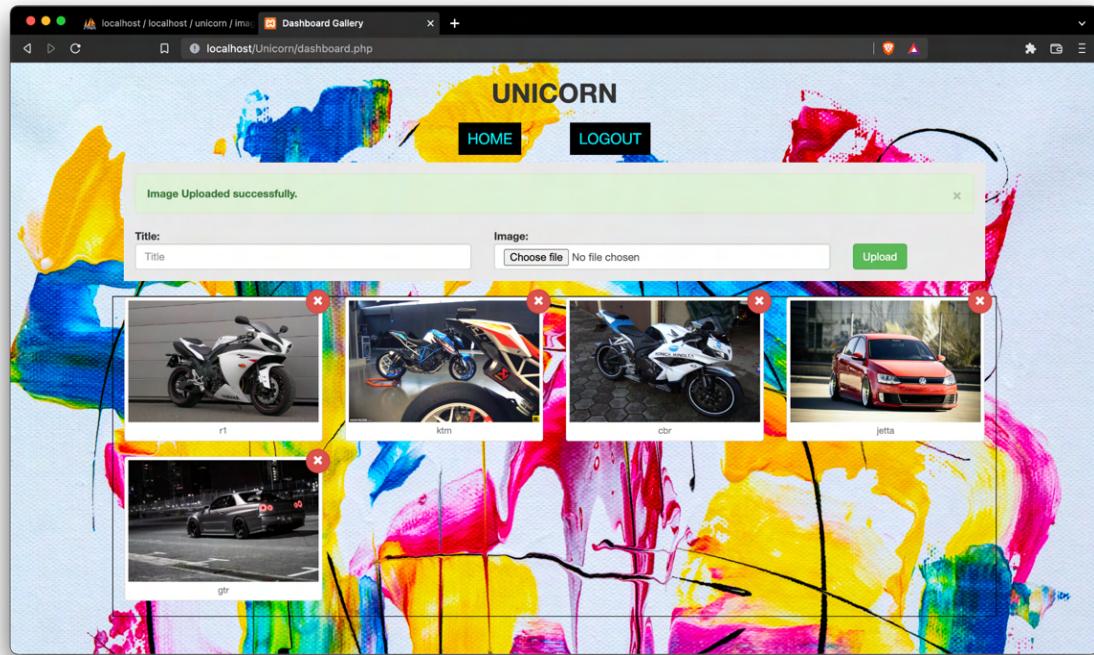
        if ($result) {
            $_SESSION['success'] = 'Image Uploaded successfully.';
            header("Location: dashboard.php"); // used for redirection
        }
    }
}
```

```
 } else {
    $_SESSION['error'] = 'image uploading failed in database';
    header("Location: dashboard.php");
}
} else {
    $_SESSION['error'] = 'image uploading failed both in database and directory';
    header("Location: dashboard.php");
}
} else {
    $_SESSION['error'] = 'Please Select Image or Write title';
    header("Location: dashboard.php");
}

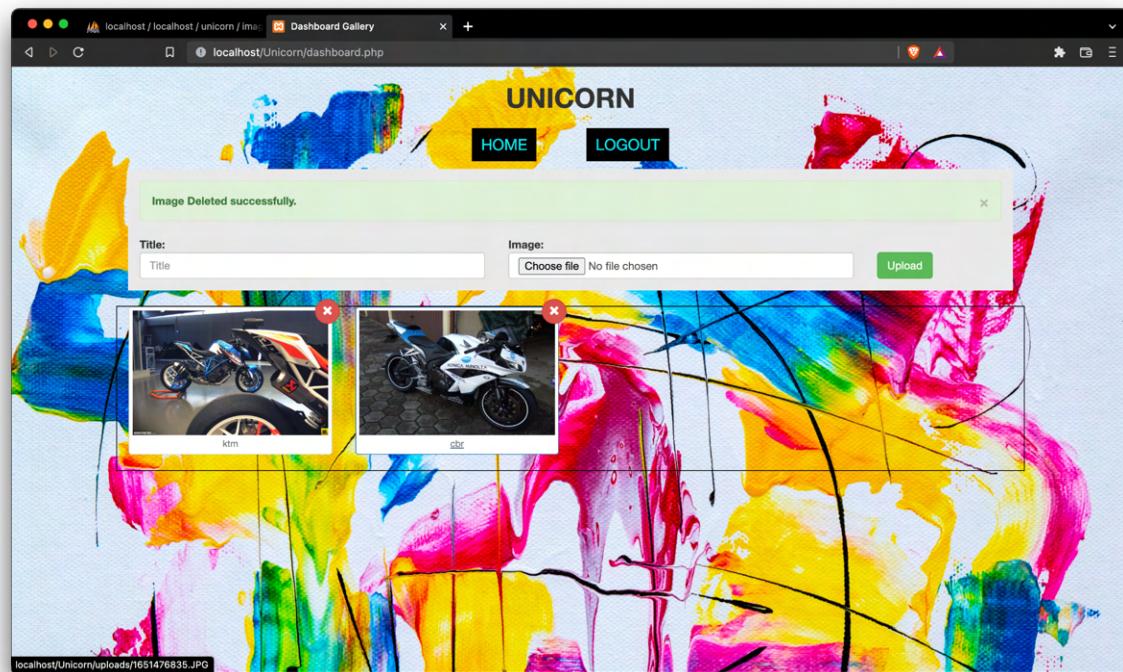
?>
```

Output:

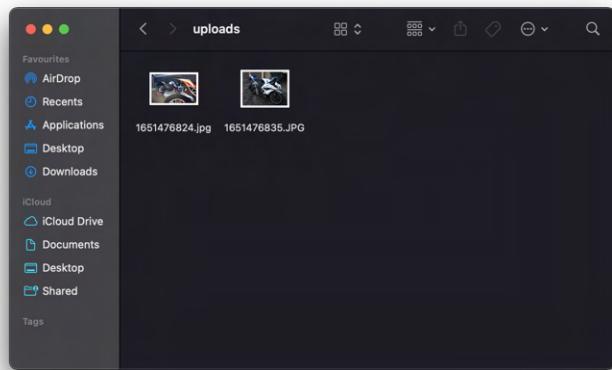
Adding more images



Deleting few images by clicking cross :



After Deleting uploads/ folder and database entries are removed



+ Options					
	← T →	▼	id	title	image
<input type="checkbox"/>	Edit	Copy	Delete	21	ktm 1651476824.jpg
<input type="checkbox"/>	Edit	Copy	Delete	22	cbr 1651476835.JPG

THANK YOU