

# **Simple Blog(Edit,Update,Delete)**

## **A Mini Project Report**

**Submitted by**

**GOWSALYA M**

**23CDR049**

**HARINI S**

**23CDR053**

**22CDT41 - DATABASE MANAGEMENT SYSTEMS**



**DEPARTMENT OF COMPUTER SCIENCE AND DESIGN**

**KONGU ENGINEERING COLLEGE**

**(Autonomous)**

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## **Problem Statement:**

**Design and implement a blog management system that allows users to create, edit, delete, and update blog posts in real-time. The system should support user authentication, post categorization, and an administrative interface for content moderation. (RDBMS: Users, Posts, Categories; Backend: CRUD operations, category assignment, user roles, timestamp management).**

## **Github Link:**

<https://github.com/harinis-14/Blog-DBMS>  
<https://github.com/Gowsalya04/Blog-DBMS>

## **Modules and Description:**

### **1. Frontend Pages:**

index.php – Homepage of your blog showing latest posts.

blog.php – Displays a list of blog posts.

post.php – Shows full content of a single blog post.

category-posts.php – Displays posts under a specific category.

about.php – Static About Us page.

contact.php – Static Contact page.

services.php – Describes services offered (optional).

signup.php & signin.php – Registration and login forms.

logout.php – Ends the user's session.

### **2. Authentication Logic:**

signup-logic.php – Processes sign-up form data and adds users.

signin-logic.php – Validates login and starts session.

### **3. Admin Panel (Inside admin/ folder):**

add-user.php add-user-logic.php – Add new admin/user.

edit-user.php edit-user-logic.php– Edit admin/user details.

delete-user.php – Delete a user.

manage-user.php – View/manage all users.

### **4.Post Management:**

add-post-logic.php – Handles post creation.

edit-post.php / edit-post-logic.php – For editing an existing post.

delete-post.php– Deletes a blog post.

### **Category Management:**

edit-category.php / edit-category-logic.php – Edit category names.

delete-category.php – Delete a category.

manage-categories.php – View/manage all categories.

### **Support Folders:**

config – Likely holds database config and settings.

css – Stylesheets for your frontend.

images – Images used in posts or UI.

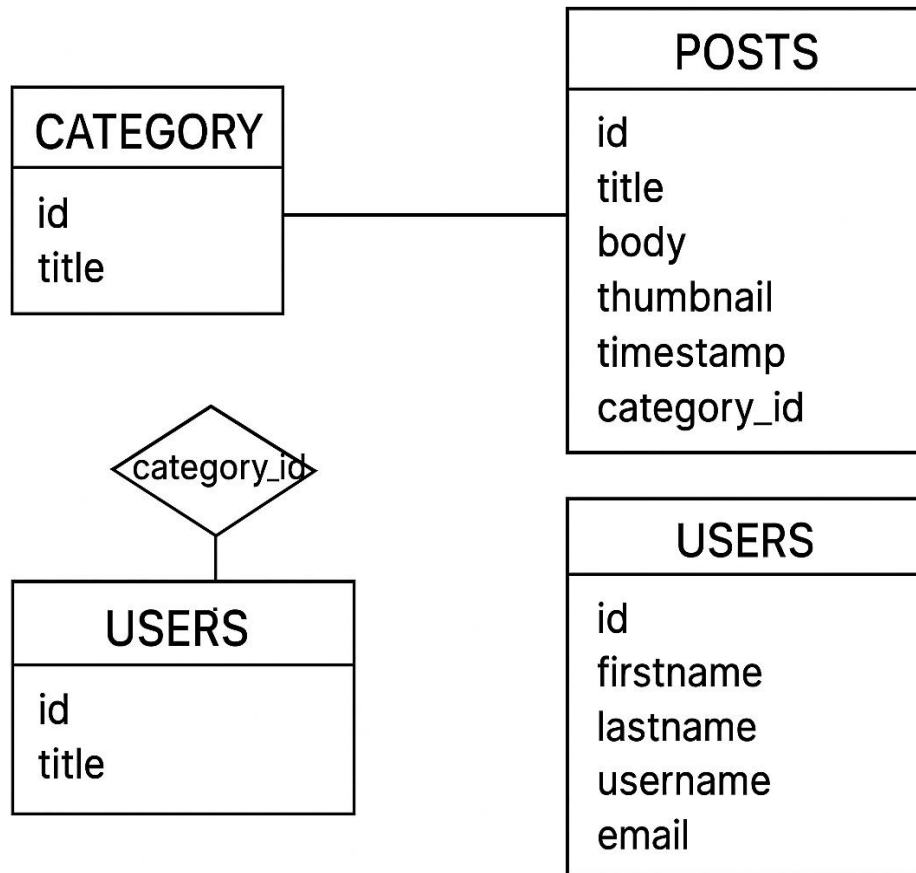
js – JavaScript files for interactivity.

partials – Reusable components like header, footer.

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## ER Diagram:



## Programming Tools:

### 1. XAMPP:

**XAMPP** provides the environment to run your PHP-based restaurant billing system locally. It includes:

- **Apache:** Runs your PHP files (like placing or fetching orders).
- **MySQL:** Stores your blog details, profile details, avatar.
- **phpMyAdmin:** Lets you manage the database easily through a web interface.

You place your project in `htdocs` and access it at `http://localhost/your-project-name`.

### 2. SQL:

**SQL (Structured Query Language)** is used to interact with the **MySQL database** for:

1. **Storing Data**
  - `INSERT` statements add new users, add blogs, and add avatar.
2. **Retrieving Data**
  - `SELECT` queries fetch posts, categories and users.
3. **Organizing Relationships**
  - SQL joins are used to connect tables like `posts`, `categories`, and `users`.

### 3. PHP:

**PHP (Hypertext Preprocessor)** is used to handle the **backend logic** of your restaurant billing system. It:

1. **Connects to the Database**
  - Uses `MySQLi` to connect and run queries.
2. **Blog Management**
  - Insert new users, avatar and post details into the database.
3. **Handles API Requests**
  - Files like `add post.php`, `edit post.php`, `delete post.php`, `manageuser.php` and `manage categories.php` return data in `JSON` format for the frontend.
4. **Fetches and Sends Data**
  - Receives data from the frontend, processes it, and sends results back.

### 4. VS CODE:

- **Write and Edit Code**

- Create and manage `HTML`, `CSS`, `JavaScript`, `PHP`, and `SQL` files.

- **Project Management**

- Organize all your project files in one place with folder view.

- **Syntax Highlighting & Autocomplete**

- Makes it easier to code with smart suggestions and color coding.

- **Extensions & Debugging**

- Use PHP and SQL extensions, and debug code directly in the editor.

## 5. HTML, CSS, JAVA SCRIPT:

### Technology

### Use in Your Project

#### HTML

Builds the **structure** of the web page (forms, tables, buttons).

#### CSS

Styles the page – sets colors, layout, fonts, and spacing to make it look good.

#### JavaScript

Adds **interactivity** – like adding items to the bill, calculating totals, and sending orders to the server.

## Database Design:

### **Table:** posts

Column Name	Data Type
id	INT
title	VARCHAR(255)
body	TEXT
thumbnail	VARCHAR(255)
created_at	DATETIME
category_id	INT
is_featured	TINYINT(1)



**Table:** users

Column Name	Data Type
id	INT
firstname	VARCHAR(50)
lastname	VARCHAR(50)
username	VARCHAR(50)
email	VARCHAR(100)
password	VARCHAR(255)
avatar	VARCHAR(255)
is_admin	TINYINT(1)



**Table:** categories

Column Name	Data Type
id	INT
title	VARCHAR(50)
description	TEXT



**Query:**

**1 . CREATE TABLE Categories(id INT(11)  
AUTO\_INCREMENT, title VARCHAR(50),description TEXT);**

**2 . CREATE TABLE Posts(id INT(11)  
AUTO\_INCREMENT, title VARCHAR(255),body  
TEXT,thumbnail VARCHAR(255),date\_time  
TIMESTAMP,category\_id int(11),author\_id int(11),is\_featured  
TINYINT(11));**

**3 . CREATE TABLE Users(id INT(11)  
AUTO\_INCREMENT, firstname VARCHAR(50), lastname  
VARCHAR(50), email VARCHAR(100),password  
VARCHAR(255),avatar VARCHAR(255), is\_  
TINYINT(11));**

## **CODING:**

### **PHP:**

### **DASH BOARD:**

```
<?php  
include 'partials/header.php';
```

```
$current_user_id = $_SESSION['user-id'];
```

```
$query = "SELECT id, title, category_id FROM posts WHERE  
author_id=$current_user_id ORDER BY id DESC";
```

```
$posts =
```

```
mysqli_query($connection,
```

```
$query);
```

```
?>
```

```
<section class="dashboard">
```

```
<?php if (isset($_SESSION['add-  
post-success'])): ?>
```

```
<div class="alert__message  
success">
```

```
<p><?= $_SESSION['add-  
post-success'];  
unset($_SESSION['add-post-  
success']); ?></p>
```

**</div>**

**<?php elseif**

**(isset(\$\_SESSION['edit-post-  
success'])): ?>**

**<div class="alert\_\_message  
success">**

**<p><?= \$\_SESSION['edit-  
post-success'];  
unset(\$\_SESSION['edit-post-  
success']); ?></p>**

**</div>**

**<?php elseif**

**(isset(\$\_SESSION['edit-post'])): ?>**

**<div class="alert\_\_message  
error">**

**<p><?= \$\_SESSION['edit-post'];  
unset(\$\_SESSION['edit-post']);  
?></p>**

**</div>**

**<?php endif ?>**

```
<div class="container
dashboard__container">

    <aside>

        <ul>

            <li>

<a href="add-post.php"><i
class="uil uil-pen"></i><h5>Add
Post</h5></a>

<li></li>

<a href="index.php"
class="active"><i class="uil uil-

postcard"></i><h5>Manage
Post</h5></a>

        </li>

        <?php if
(isset($_SESSION['user_is_admin']
)): ?>

            <li><a href="add-
user.php"><i class="uil uil-
```

plus"></i><h5>Add

User</h5></a></li>

<li><a href="manage-

user.php"><i class="uil uil-user-

plus"></i><h5>Manage

User</h5></a></li>

<li><a href="add-

category.php"><i class="uil uil-

edit"></i><h5>Add

Category</h5></a></li>

<li>

<a href="manage-

categories.php"><i class="uil uil-

list-ul"></i><h5>Manage

Category</h5></a></li>

<?php endif ?>

</ul>

</aside>

<main>

<h2>Manage Users</h2>

```

<table>

    <thead>

        <tr>

            <th>Title</th>

            <th>Category</th>


            <th>Edit</th>

            <th>Delete</th>

        </tr>

    </thead>

    <tbody>

        <?php while

($post=mysqli_fetch_assoc($posts))

: ?>

        <?php

$category_id =

$post['category_id'];

$category_query = "SELECT title

FROM categories WHERE

id=$category_id";

```

```

$category_result =

mysqli_query($connection,

$category_query);

$category =

mysqli_fetch_assoc($category_resu

lt);

?>

<tr><td><?= $post['title'] ?></td>

<td><?= $category['title'] ?></td>

<td><a href="<?= ROOT_URL

?>admin/edit-post.php?id=<?=

$post['id'] ?>" class="btn

sm">Edit</a></td><td><a

href="<?= ROOT_URL

?>admin/delete-post.php?id=<?=

$post['id'] ?>" class="btn sm

danger">Delete</a></td> </tr>

<?php endwhile ?>

```

**</tbody>**

**</table>**

**</main>**

**</div>**

**</section>**

**<?php include**

**'../partials/footer.php'; ?>**

## **INDEX:**

**<?php**

**require**

**'config/database.php'; if**

**(isset(\$\_POST['submit']))**

**{**

**\$author\_id = \$\_SESSION['user-id'];**

**\$title = filter\_var(\$\_POST['title'],  
FILTER\_SANITIZE\_FULL\_SPECIAL\_CHARS);**



```
$body = filter_var($_POST['body'],  
FILTER_SANITIZE_FULL_SPECIAL_CHARS);
```

```
$category_id = filter_var($_POST['category'],  
FILTER_SANITIZE_NUMBER_INT);
```

```
$is_featured = filter_var($_POST['is_featured'],  
FILTER_SANITIZE_NUMBER_INT);
```

```
$thumbnail = $_FILES['thumbnail'];
```

```
// set is_featured to 0 if unchecked
```

```
$is_featured = ($is_featured == 1)? 1 : 0;
```

```
// validate form
```

```
data if (!$title) {
```

```
    $_SESSION['add-post'] = "Enter post title";
```

```
    } elseif (!$category_id) {
```

```
        $_SESSION['add-post'] = "Select post category";
```

```
    } elseif (!$body) {
```

```
        $_SESSION['add-post'] = "Enter post body";
```

```
    } elseif (!$thumbnail['name']) {
```

```
        $_SESSION['add-post'] = "Choose post thumbnail";
```

```
    } else {
```

```
        // WORK ON THUMBNAIL
```

```
        // rename the image
```

```
$time = time(); // make each image name unique

$thumbnail_name = $time. $thumbnail['name'];

$thumbnail_tmp_name = $thumbnail['tmp_name'];

$thumbnail_destination_path = '../images/' . $thumbnail_name;

// make sure file is an image

$allowed_files = ['png', 'jpg', 'jpeg'];

$extension = explode('.', $thumbnail_name);

$extension=end($extension);
if (in_array($extension, $allowed_files)) {

    // make sure image is not too big.

    (2mb+) if ($thumbnail['size']

    <2_000_000) {

        // upload thumbnail

        move_uploaded_file($thumbnail_tmp_name,
$thumbnail_destination_path);

        } else {
            $ _SESSION['add-post'] = "File size too big. Should be less than
2mb";

        } else {
            $ _SESSION['add-post'] = "File should be png, jpg, or jpeg";
        }
    
```

```
move_uploaded_file($thumbnail_tmp_name,  
$thumbnail_destination_path);
```

```
} else {  
}  
$_SESSION['add-post'] = "File size too big. Should be less than  
2mb";
```

```
} else {  
    $_SESSION['add-post'] = "File should be png, jpg, or jpeg";  
}
```

```
if (isset($_SESSION['add-post'])) {  
    $_SESSION['add-post-data'] = $_POST;  
    header('location: '.ROOT_URL.  
'admin/add-post.php'); die();
```

```
    } else{  
        if ($is_featured == 1) {  
            $zero_all_is_featured_query = "UPDATE posts SET  
is_featured=0";  
            $zero_all_is_featured_result = mysqli_query($connection,  
$zero_all_is_featured_query);  
        }  
        $query = "INSERT INTO posts (title, body, thumbnail,  
category_id, author_id, is_featured) VALUES ('$title', '$body',  
'$thumbnail_name', $category_id, $author_id,  
$is_featured)";  
        $result = mysqli_query($connection,
```

```
$query); if
```

```
(!mysqli_errno($connection)) {
```

```
    $_SESSION['add-post-success'] = "New post added successfully";  
    header('location: ' .ROOT_URL.  
'admin/'); die();  
}
```

```
}
```

```

}
}
else{
    header('location: '.ROOT_URL.'admin/add-post.php');

    die();
}

```

### **ADD CATEGORIES:**

```

<?php

require 'config/database.php';

if (isset($_GET['id'])) {

    $id = filter_var($_GET['id'], FILTER_SANITIZE_NUMBER_INT);

    // FOR LATER

    // update category_id of posts that belong to this category to id of
    uncategorized category

    $update_query = "UPDATE posts SET category_id=5 WHERE
    category_id=$id";

    $update_result = mysqli_query($connection, $update_query);

    if(!mysqli_errno($connection)){

        $query = "DELETE FROM categories WHERE id=$id LIMIT 1";

        $result = mysqli_query($connection, $query);

        $_SESSION['delete-cagory-success'] = "Category deleted successfully";

    }
}
header('location: '.ROOT_URL.'admin/manage-
categories.php'); die();

```

## **DELETE POST:**

```
<?php
```

```
require
```

```
'config/database.php'; if
```

```
(isset($_GET['id'])) {
```

```
$id = filter_var($_GET['id'], FILTER_SANITIZE_NUMBER_INT);
```

```
// fetch post from database in order to delete thumbnail from images  
folder
```

```
$query = "SELECT * FROM posts WHERE id=$id";
```

```
$result = mysqli_query($connection, $query);
```

```
// make sure only 1 record/post was fetched
```

```
if (mysqli_num_rows($result) == 1) {
```

```
$post = mysqli_fetch_assoc($result);
```

```
$thumbnail_name = $post['thumbnail'];
```

```
$thumbnail_path = '../images/';
```

```
$thumbnail_name; if($thumbnail_path) {
```

```
unlink($thumbnail_path);
```

```
// delete post from database
```

```
$delete_post_query = "DELETE FROM posts WHERE id=$id LIMIT 1";
```

```
$delete_post_result = mysqli_query($connection, $delete_post_query);  
if(!mysqli_errno($connection)) {
```

```
$_SESSION['delete-post-success'] = "Post deleted successfully";
```

```
}  
}  
}  
}
```

```
header('location: '.ROOT_URL
```

```
.'admin/');
```

```
die();
```

```
DELETE USER:
```

```
<?php
```

```
require
```

```
'config/database.php'; if
```

```
(isset($_GET['id'])) {
```

```
$id = filter_var($_GET['id'], FILTER_SANITIZE_NUMBER_INT);
```

```
// fetch user from database
```

```
$query = "SELECT * FROM users WHERE id=$id";
```

```
$result = mysqli_query($connection, $query);
```

```
$user = mysqli_fetch_assoc($result);
```

```
// make sure we got back only
```

```
one user if
```

```
(mysqli_num_rows($result) ==
```

```
1) {
```

```
$avatar_name = $user['avatar'];
```

```
$avatar_path = '../images/'. $avatar_name;
```

```
// delete image if
```

```
available if
```

```
($avatar_path) {
```

```
unlink($avatar_path);
```

```
}
```

```
}
```

```
$thumbnails_query = "SELECT thumbnail FROM posts WHERE  
author_id=$id";
```

```
$thumbnails_result = mysqli_query($connection,
```

```
$thumbnails_query); if
```

```
(mysqli_num_rows($thumbnails_result) > 0) {
```

```
while ($thumbnail = mysqli_fetch_assoc($thumbnails_result)) {
```

```
$thumbnail_path = '../images/' . $thumbnail['thumbnail'];
```

```
// delete thumbnail from images folder
```

```
is exist if ($thumbnail_path) {
```

```
unlink($thumbnail_path);
```

```
}}
```

```
// delete user from database
```

```

$delete_user_query = "DELETE FROM users WHERE id=$id";
$delete_user_result = mysqli_query($connection,
$delete_user_query); if (mysqli_errno($connection)) {

$_SESSION['delete-user'] =

"Couldn't delete
'{ $user['firstname'] }' { $user['lastname']
}''";
}
else {
$_SESSION['delete-user-success'] = "{ $user['firstname'] }
{ $user['lastname'] } deleted successfully";
}

header('location: ' . ROOT_URL .
'admin/manage-user.php'); die();

}

```

### **UPDATE POST:**

```

<?php

require 'config/database.php';

if (isset($_POST['submit'])) {

$id = filter_var($_POST['id'], FILTER_SANITIZE_NUMBER_INT);

$previous_thumbnail_name =

filter_var($_POST['previous_thumbnail_name'],

FILTER_SANITIZE_FULL_SPECIAL_CHARS);

```



```
$title = filter_var($_POST['title'],  
FILTER_SANITIZE_FULL_SPECIAL_CHARS);  
  
$body = filter_var($_POST['body'],  
FILTER_SANITIZE_FULL_SPECIAL_CHARS);  
  
$category_id = filter_var($_POST['category'],  
FILTER_SANITIZE_NUMBER_INT);  
  
$is_featured = filter_var($_POST['is_featured'],  
FILTER_SANITIZE_NUMBER_INT);  
  
$thumbnail = $_FILES['thumbnail'];  
  
// set is_featured to 0 if it was unchecked  
  
$is_featured = $is_featured == 1?: 0;  
  
// check and validate input  
  
values if (!$title) {  
  
$_SESSION['edit-post'] = "Couldn't update post. Invalid form data on  
edit post page.";   
  
} elseif (!$category_id) {  
  
$_SESSION['edit-post'] = "Couldn't update post. Invalid form data on  
edit post page.";   
} elseif (!$body) {  
  
$_SESSION['edit-post'] = "Couldn't update post. Invalid form data on  
edit post page.";} else {  
  
// delete existing thumbnail if new thumbail is  
  
available if ($thumbnail['name']) {  
  
$previous_thumbnail_path='../images/';
```

```
$previous_thumbnail_name; if  
  
($previous_thumbnail_path) {  
  
unlink($previous_thumbnail_path);  
  
}  
  
$time = time(); // make each image name upload unique using current  
timestamp  
$thumbnail_name = $time . $thumbnail['name'];  
$thumbnail_tmp_name = $thumbnail['tmp_name'];  
  
$thumbnail_destination_path = '../images/'. $thumbnail_name;  
  
// make sure file is an image  
  
$allowed_files = ['png', 'jpg', 'jpeg'];  
  
$extension = explode('.', $thumbnail_name);  
  
$extension=end($extension);  
  
if (in_array($extension,  
$allowed_files)) { if  
($thumbnail['size'] < 2000000) {  
  
// upload avatar  
  
move_uploaded_file($thumbnail_tmp_name,  
$thumbnail_destination_path);  
  
} else {  
  
$_SESSION['edit-post'] = "Couldn't update post. Thumbnail size too  
big. Should be less than 2mb";  
}  
}  
else {
```

```

$_SESSION['edit-post'] = "Couldn't update post. Thumbnail should be
png, jpg or jpeg";
}
}
if ($_SESSION['edit-post']) {

// redirect to manage form page if form was

invalid header('location: '. ROOT_URL.

'admin/');

die();

} else {

// set is_featured of all posts to 0 if is_featured for this post is

1 if ($is_featured == 1) {

$zero_all_is_featured_query = "UPDATE posts SET is_featured=0";

$zero_all_is_featured_result = mysqli_query($connection,
$zero_all_is_featured_query);

}

// set thumbnail name if a new one was uploaded, else keep old thumbnail
name

$thumbnail_to_insert = $thumbnail_name ??
$previous_thumbnail_name;

$query = "UPDATE posts SET title='$title', body='$body',
thumbnail='$thumbnail_to_insert',

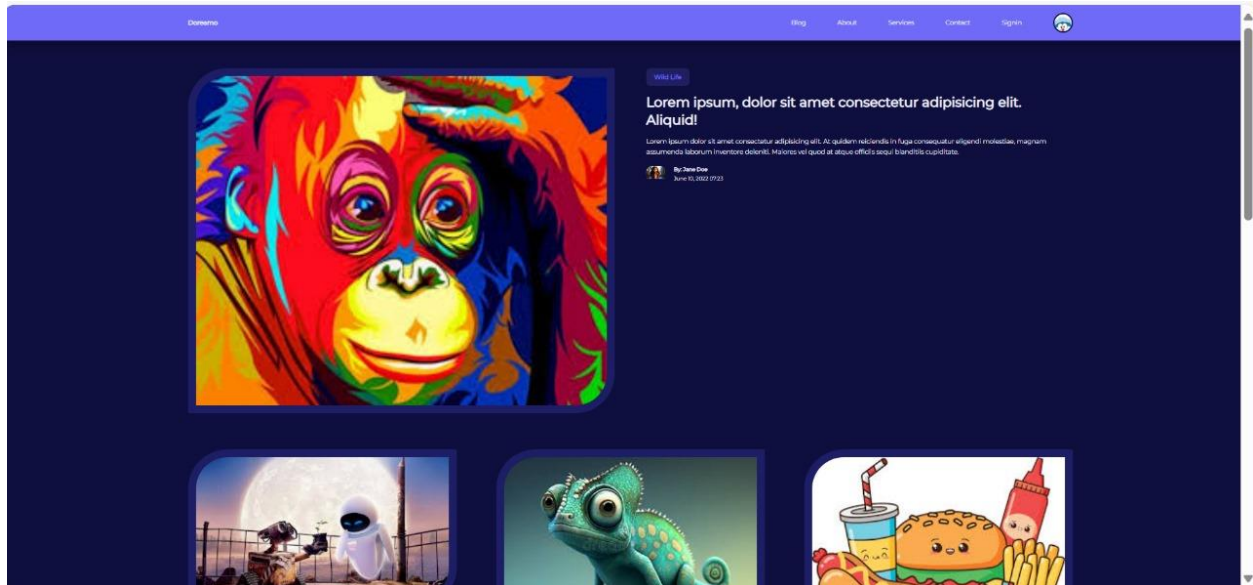
category_id=$category_id, is_featured=$is_featured WHERE id=$id
LIMIT 1";

$result = mysqli_query($connection,
$query);} if

```

```
(!mysqli_errno($connection)) {  
  
$_SESSION['edit-post-success'] = "Post updated successfully";  
  
}  
  
header('location: '.ROOT_URL  
  
.'admin/');  
  
die();
```

## OUTPUT:



### Sign Up

First Name

Last Name

Username

Email

Create Password

Confirm Password

User Avatar

No file chosen

Already have an account? [Sign In](#)


Sign In


Registration successful. Please log in

Sign In


Don't have an account? [Sign Up](#)

Doreamo

[Blog](#)[About](#)[Services](#)[Contact](#)



Add Post



Manage Post

Manage Users

Title	Category	Edit	Delete
-------	----------	------	--------



Categories

[Art](#)[Wild Life](#)[Travel](#)[Music](#)[Science & Technology](#)[Health](#)

Support

[Online Support](#)[Wild Life](#)[Call Numers](#)[Emails](#)[Social Support](#)[Feedback](#)


Blogs

[Safety](#)[Repair](#)[Recent](#)[Popular](#)[Categories](#)

Permalinks

[Home](#)[Blog](#)[About](#)[Services](#)[Contact](#)

Doreamo

[Blog](#)[About](#)[Services](#)[Contact](#)

Add Post

Travel

▼

Paris, often called the City of Light, is one of the most romantic and enchanting places in the world. As the capital of France, Paris is known for its rich history, world-class art, elegant fashion, and charming cafés lining cobblestone streets. The iconic Eiffel Tower sparkles over the city each night, while the Seine River flows gently beneath ancient stone bridges, offering dreamy boat rides and scenic walks. Visitors are drawn to landmarks like the Louvre Museum, home of the Mona Lisa, and the grand Notre-Dame Cathedral. With every croissant, every corner, and every moment, Paris captures hearts and inspires dreams – a city where beauty, culture, and love come together effortlessly.

Add Thumbnail


Choose File

paris.jpeg


Add Post


Doreamo

BlogAboutServicesContact



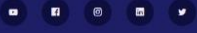
New post 'My trip to Paris' added successfully!

 Add Post

 Manage Post

### Manage Users

Title	Category	Edit	Delete
My trip to Paris	Travel	<a href="#">Edit</a>	<a href="#">Delete</a>



Categories

Support

Blogs

Permalinks

Art

Online Support

Safety

Home

Wild Life


Wild Life


Repair


Blog

Doreamo

BlogAboutServicesContact




 Add Post

 Manage Post


### Manage Users

Title	Category	Edit	Delete
I love animals	Wildlife	<a href="#">Edit</a>	<a href="#">Delete</a>
My trip to Paris	Travel	<a href="#">Edit</a>	<a href="#">Delete</a>



Doreamo

BlogAboutServicesContact



### Edit Post

My trip to Paris-Yayyy

Food


Paris, often called the City of Light, is one of the most romantic and enchanting places in the world. As the capital of France, Paris is known for its rich history, world-class art, elegant fashion, and charming cafés lining cobblestone streets. The iconic Eiffel Tower sparkles over the city each night, while the Seine River flows gently beneath ancient stone bridges, offering dreamy boat rides and scenic walks. Visitors are drawn to landmarks like the Louvre Museum, home of the Mona Lisa, and the grand Notre-Dame Cathedral. With every croissant, every corner, and every moment, Paris captures hearts and inspires dreams – a city where beauty, culture, and love come together effortlessly.

☒ Featured

Change Thumbnail


[Choose File](#) paris.jpeg


[Update Post](#)




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 Add Post

 Manage Post


### Manage Users


Title	Category	Edit	Delete
I love animals	Wildlife	<a href="#">Edit</a>	<a href="#">Delete</a>





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 Add Post

 Manage Post

 Add User






 Manage User

 Add Category

 Manage Category


### Manage Users


Title	Category	Edit	Delete
Yummy	Food	<a href="#">Edit</a>	<a href="#">Delete</a>




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


 Add Post

 Manage Post

### Manage Users


Title	Category	Edit	Delete
I love animals	Wildlife	<a href="#">Edit</a>	<a href="#">Delete</a>
My trip to Paris	Travel	<a href="#">Edit</a>	<a href="#">Delete</a>








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 Add Post

 Manage Post

 Add User

 Manage User

 Add Category


 Manage Category

### Manage Users

Name	Username	Edit	Delete	Admin
hari gow	harinigowsl	<a href="#">Edit</a>	<a href="#">Delete</a>	No
sahana harini	sahana	<a href="#">Edit</a>	<a href="#">Delete</a>	No
ashika sri	ashika	<a href="#">Edit</a>	<a href="#">Delete</a>	No
sandhya gowsl	sandhya	<a href="#">Edit</a>	<a href="#">Delete</a>	Yes

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### Add User

Author


Author

Admin

Add User

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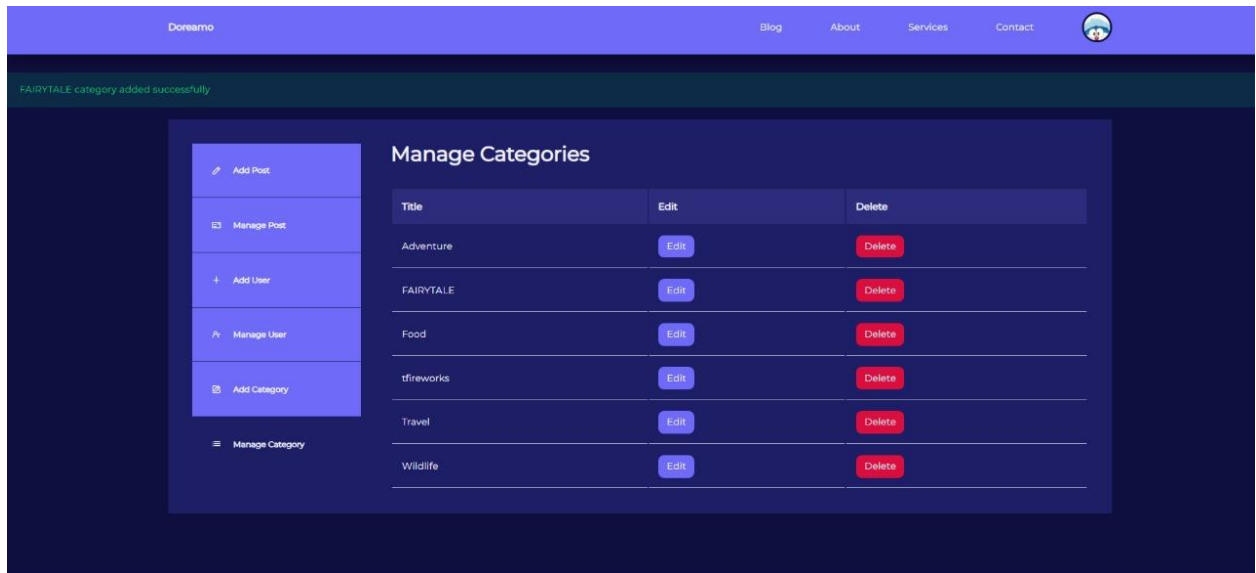
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### Add Category

This is the fairytale category

Add Category



## **Reference:**

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