

# GLOBSKILLS BLOG WEBSITE

8 Sep 2023

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#### **DOCUMENTATION:**

#### 1. Introduction

The PHP Blog Website is a versatile web-based application designed to facilitate the creation, management, and interaction with blog posts. It empowers users with essential features such as user registration, login, blog post creation, categorization, commenting, search functionality, and an admin dashboard for user management.

# 2. Project Setup

#### **Prerequisites**

Before you proceed with setting up the PHP Blog Website, make sure you have the following components in place:

Web Server (e.g., Apache): A web server software is required to serve the PHP files and web content to users.

**PHP:** PHP is the scripting language that powers the dynamic features of the website.

MySQL Database: A MySQL database will store the website's data, including user information, blog posts, comments, and more.

**Bootstrap CSS Framework:** Bootstrap provides a responsive and visually appealing framework for styling the website's user interface.

#### **Installation:**

To get started, follow these steps:

Web Server Configuration: Ensure that your web server is properly configured to serve PHP files. You can test this by creating a simple PHP file (e.g., test.php) containing the following code and accessing it through your web browser:

## **Configuration**

**Database Configuration:** Open the config.php file in your project and modify the database connection settings to match your MySQL database credentials. This step is crucial for establishing a connection between your application and the database.

**Database Table Creation:** Utilize the provided SQL queries to create the necessary database tables. These tables include structures for user registration, blog posts, comments, categories, and more. Run the SQL queries in a MySQL management tool or command line.

#### 3. User Registration and Login

### Registration

The user registration process allows new users to create accounts on the PHP Blog Website. During registration, users provide a unique username, a valid email address, and a secure password. The registration process includes the following steps:

User Input Validation: User-provided data is validated to ensure proper formatting and avoid potential issues with data integrity.

**Password Hashing:** Passwords are securely hashed using the SHA-1 algorithm before being stored in the database. This ensures that even if the database is compromised, passwords remain protected.

Validation Checks: The registration process includes checks to ensure that the provided email is unique and not already registered.

#### Login

Registered users can log in using their email and password. The login process involves the following steps:

**Authentication:** The provided email and password are verified against the stored hashed password in the database. If the credentials match, the user is considered authenticated.

**Session Management:** Upon successful login, a session is established for the user. This session is used to keep the user logged in while they navigate through the website.

#### 4. Admin Dashboard

#### **Access Control**

The admin dashboard is a centralized control panel accessible only to administrators. It allows administrators to manage various aspects of the website. Access to the admin dashboard is restricted to users with admin privileges. Co-administrators have limited access compared to full administrators.

#### **User Management**

The admin dashboard provides the ability to view and manage registered users. It includes functionalities like:

**User Listing:** A paginated list of registered users is displayed for easy navigation.

**User Details:** Administrators can view user details, including username, email, and registration date.

**User Deletion:** Administrators can delete user accounts directly from the admin dashboard.

### **5. Managing Categories**

#### **Adding Categories**

Categories play a crucial role in organizing and categorizing blog posts. Administrators can add new categories through the admin dashboard. Each category is associated with a unique identifier and a name.

#### **Editing Categories**

Administrators can also edit existing categories. Editing allows administrators to modify the names of categories, helping to keep the website's categorization up-to-date.

#### 6. Creating and Managing Blog Posts

### **Adding Blog Posts**

The blog post creation process allows administrators to share content with users. Features include:

**WYSIWYG Editor:** A "What You See Is What You Get" editor simplifies the process of creating richly formatted blog posts.

**Post Metadata:** Each blog post is associated with an author, a category, and a timestamp.

#### **Editing Blog Posts**

Admins can edit existing blog posts, making it easy to correct errors or update content. The editing process includes modifying post titles, content, and associated categories.

# **Deleting Blog Posts**

Administrators have the ability to remove blog posts from the website. This functionality ensures that outdated or irrelevant content can be efficiently managed.

#### 7. Comments and Interaction

# **Adding Comments**

Users can actively engage with blog posts by leaving comments. Features include:

**Comment Form:** A comment form allows users to share their thoughts on a particular blog post.

**Comment Association:** Each comment is associated with a specific post, the user who left the comment, and a timestamp.

#### **Admin Moderation**

Administrators have the responsibility to moderate comments. They can review comments and delete any that violate the website's guidelines or contain inappropriate content.

# 8. Search Functionality

The search functionality empowers users to find relevant blog posts using keywords. When users search, the system queries the database for posts containing the specified keywords. The search results are presented in a paginated format for easy navigation.

#### 9. Pagination

To enhance the user experience, pagination is implemented throughout the website. It divides content into manageable chunks, allowing users to navigate through extensive lists of data without feeling overwhelmed.

## 10. Security Measures

# **SQL Injection Prevention**

To prevent SQL injection attacks, the project employs prepared statements. Prepared statements ensure that user input is properly sanitized before being used in database queries, reducing the risk of malicious attacks.

## 11. Styling and User Interface

The Bootstrap CSS framework is utilized to enhance the website's user interface. Bootstrap provides responsive design elements, pre-styled components, and a consistent look and feel across different devices.

#### 12. Conclusion

The project has successfully created a PHP Blog Website with comprehensive features that cater to both administrators and users. As the project evolves, there are opportunities to further refine existing functionalities and introduce new features to enhance the user experience.

#### 13. Installation Guide

# **Step-by-Step Instructions**

Clone the Project: Clone the repository or copy project files to a directory within your web server.

**Configure Database:** Open config.php and set the database connection settings.

**Database Tables:** Run the provided SQL queries to create the required database tables.

## **Running the Project**

Access the Website: Open a web browser and navigate to the project's URL.

Admin Dashboard: Use the provided admin credentials to access the admin dashboard.

# 12. Future Improvements

While the current version of the Blog Website project offers a solid foundation, there are several areas for potential future improvements, including:

Adding user profile pages with the option to update profile information and change passwords.

Implementing a comment moderation system to manage and approve comments before they are published.

Enhancing the user interface with responsive design to improve the experience on various devices.

Incorporating social media sharing options to allow users to share blog posts on different platforms.

**GOOD LUCK!**