THE SAE BLOG

Documentation for the online community and blogging system.
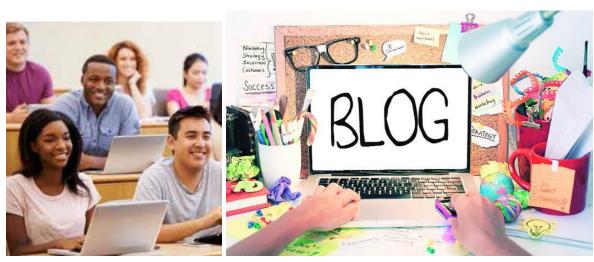
Table of Contents

1 Introduction

This proposal will briefly describe my project of creating a PHP Custom CMS. I will break down each part of my project including what technologies I will be using and wireframes to give details about my project architecture. This documentation will be used for potential users as well as developers who contribute to or help maintain the project.

1.1 Project background

The SAE Room is a platform for SAE students, staff and alumni to post blogs and connect with each other worldwide. It will help connect all the SAE around the world.

1.2 Project Aims and Objectives

These are the objectives of this project:
- To create a custom CMS website with MYSQL and PHP and a backend environment.
- The website should have at least four pages, some public and others accessible only to registered users.
- Registered users should have the ability to alter/add the content of the website.
- Website should have a direct connection to the database

These are the aims of the project:
- Create a database that stores all the essential data (such as users, articles, content etc.)
- Apply server-side development
- Send and retrieve data to/from remote servers
- To be able to demonstrate the following
    - Advanced software architecture and programming principles
    - Advanced problem-solving techniques
    - Database design and data manipulation
    - A strategic approach to solving security issues

2 Getting started

2.1 Github

This section is an example of how you can start using the cms on your own local machine.

1. Download the .zip or clone the repo from this link. Make sure the project folder is in your htdocs folder if you use XAMPP.

```
https://github.com/i-f-r-a-h/blog-cms/
```

2. Set your database configuration in engine/config.php

```
define('DB_HOST', 'ENTER YOUR HOST');
define('DB_USER', 'ENTER YOUR USERNAME');
define('DB_PASS', 'ENTER YOUR PASSWORD');
define('DB_NAME', 'blog');
```

3. Export the database.sql file to your phpMyAdmin
   https://help.one.com/hc/en-us/articles/115005588189-How-do-I-import-a-database-to-phpMyAdmin-

Once completing these three steps you should be able to run the CMS.

2.2 Localhost

1. Uncompress blog.zip and copy it into your XAMPP htdocs. Make sure the blog folder name is kept as blog

2.3 Live Link

1. Click this live link - https://saeshare.000webhostapp.com/blog/view/public/

3. Login details

User role	Username	Password (case sensitive)
Admin	ifrah123	Password12345!
User	matt1990	Mattsmith1990!

4. Functionalities and features

Functionality
- Login and sign-up system
- CRUD posts, comments, users, categories, notifications, photos

Features
- Dynamic dashboard
- Posts with likes and comments
- Dynamic accessibility and content depending on the user's role i.e user or admin
- Personalized user profiles.
- Open source frameworks and libraries
    - WYSIWYG editor embedded
    - Dynamic infographic embedded with Google APIs
- Encrypting passwords
- Embedded CRUD validation
- Utilizing OOP methodology AND MVC framework
- Functioning Forgotten password and verify email address
- live search box for specific content
- Gallery model system using ajax
- Draft and published views of comments and posts
- Notifications
- Export your own data
- Pagination

5. System Technical Notes

5.1 Database Design

blog **posts**
- 🔑 id : int(11)
- 🔲 title : varchar(255)
- 🔲 author : varchar(255)
- # category_id : int(22)
- 🔲 content : longtext
- 🔲 description : text
- 🔲 filename : varchar(255)
- # view_count : int(255)
- # likes : int(11)
- 🔲 post_date : date
- 🔲 post_status : varchar(255)

blog **sae_campus**
- 🔑 id : int(11)
- 🔲 campus_name : varchar(255)
- 🔲 campus_address : varchar(255)

blog **comments**
- 🔑 id : int(11)
- # post_id : int(11)
- 🔲 author : varchar(255)
- 🔲 body : text
- 🔲 comment_date : datetime
- 🔲 comment_status : varchar(255)

blog **notifications**
- 🔑 id : int(11)
- # sender_id : int(11)
- # receiver_id : int(11)
- # status : int(1)
- 🔲 notification_message : longtext
- 🔲 action : varchar(255)
- 🔲 date_sent : date

blog **sae_level_of_study**
- 🔑 id : int(11)
- 🔲 level : varchar(255)

blog **sae_courses**
- 🔑 id : int(11)
- 🔲 course_name : varchar(255)
- 🔲 course_duration : varchar(255)
- 🔲 course_type : varchar(255)

blog **users**
- 🔑 id : int(11)
- 🔲 username : varchar(255)
- 🔲 password : varchar(255)
- 🔲 first_name : varchar(255)
- 🔲 last_name : varchar(255)
- 🔲 user_image : varchar(255)
- 🔲 user_code : varchar(255)
- 🔲 user_email : varchar(255)
- 🔲 user_dob : date
- 🔲 user_tel : varchar(255)
- 🔲 level_of_study : varchar(255)
- 🔲 profession : varchar(255)
- 🔲 course : varchar(255)
- 🔲 campus : varchar(255)
- 🔲 user_gender : varchar(255)
- 🔲 user_role : varchar(255)

blog **post_categories**
- 🔑 id : int(11)
- 🔲 category_title : varchar(255)

blog **likes**
- 🔑 id : int(11)
- # user_id : int(11)
- # post_id : int(11)

blog **user_photos**
- 🔑 id : int(11)
- 🔲 user_image : varchar(255)
- 🔲 filename : varchar(255)
- # size : int(11)
- 🔲 type : varchar(255)