

Website Implementation Overview

This document provides a detailed description of the website's implementation from a system or developer's perspective. It covers the main features implemented, the structure and functionality of the PHP and JavaScript files, the high-level workflow of the site, and the known limitations.

Features Implemented

User Authentication System:

- Supports user registration, login, and logout functionalities.
- Separate dashboards for regular users and admins.
- Passwords are hashed for security using PHP's `password_hash` function.

Admin Dashboard:

- Allows administrators to manage (view, edit, delete) users and posts directly from the admin panel.

Dynamic Content Management:

- Users can create, edit, and delete posts.
- Posts are displayed dynamically on the homepage and categorized pages.

Responsive Design:

- The website uses responsive CSS to ensure it works on desktop, tablet, and mobile devices.

PHP and JavaScript File Description

- PHP Files:
 - `index.php`: Serves as the landing page and dynamically displays posts.
 - `login.php`, `register.php`: Handle user authentication.
 - `admin.php`, `manage-users.php`, `manage-posts.php`, `site-settings.php`: Part of the admin dashboard for managing the site.
 - `db_connect.php`: Contains the database connection setup using MySQLi.
 - `functions.php`: Includes reusable functions for various operations like user verification and post management.
- JavaScript Files:
 - No javascript files were used.

High-Level Workflow

- User Interaction:
 - Visitors can browse posts and read content without logging in.
 - Registered users can create, edit, and delete their posts after logging in.
 - Admins can access the admin dashboard where they can manage all posts and user accounts.

- Data Handling:
 - The MySQL database stores user and post data.
 - PHP scripts handle all server-side logic including database queries.
- Security Measures:
 - User input is sanitized and validated both on the client-side with JavaScript and server-side with PHP.
 - Sessions are used to maintain user login states and role-based access controls.

Known Limitations

Scalability:

- The current setup may not efficiently handle a very large number of concurrent users or posts due to basic database design and indexing.

Security:

- While basic security measures are in place, the site has not been tested against all potential security vulnerabilities, such as advanced SQL injections or sophisticated XSS attacks.

Advanced Features:

- The site lacks advanced features like multi-factor authentication, social media integration, or comprehensive user analytics.

User Interface:

- The design is quite basic and may not offer the best user experience on very small or very large screens.

This document outlines the core aspects of the website from a development perspective, aiming to provide clear insight into what has been implemented, how it works, and what limitations exist. Further development could address these limitations and introduce more advanced features to enhance the scalability, security, and user experience.