

Message wall system

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main functions

- Users can post messages
- Support keyword search, date filtering and sorting
- Display total number of messages
- Supports automatic conversion of URLs and # tags in comments to hyperlinks
- 👍 Like function
- Administrators can delete messages after logging in

Run environment

- Hardware: Raspberry Pi Zero 2 W
- Web Server: Apache2 (or compatible HTTP server)
- Scripting: PHP 8+ (no JavaScript frameworks required)
- Database: MariaDB

Key Techniques

- PHP + MySQL for backend logic
- Preventing SQL Injection with PDO form validation and htmlspecialchars for security
- **Preg_replace** handles URLs and hashtags
- Sorting and filtering are done through dynamic SQL queries

DEMO

<https://github.com/AlexWang1017/AlexWang1017-open-source-practice-final-project.git>

YOUTUBE:

<https://youtu.be/mC6MUyAcFoE>

Thank you for your listening