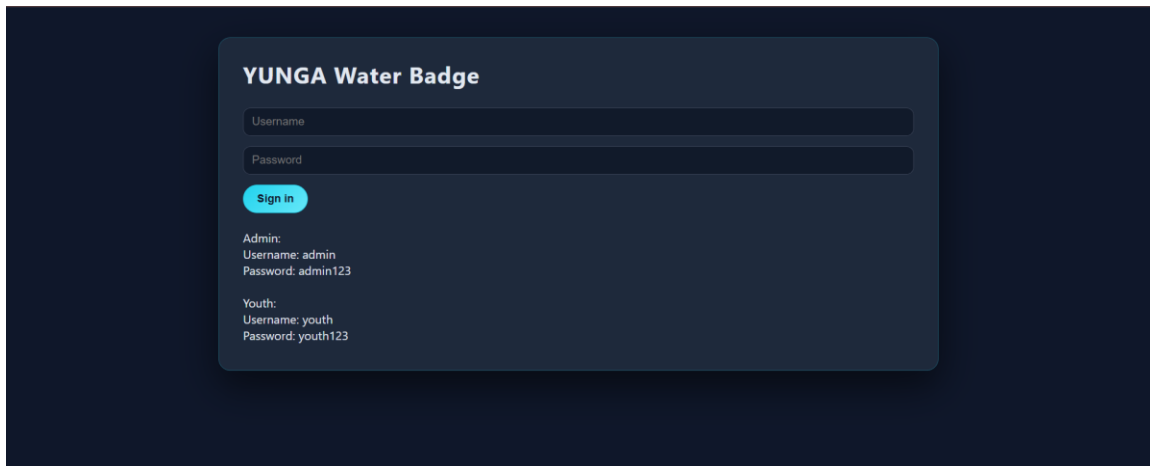


YUNGA WATER Badge

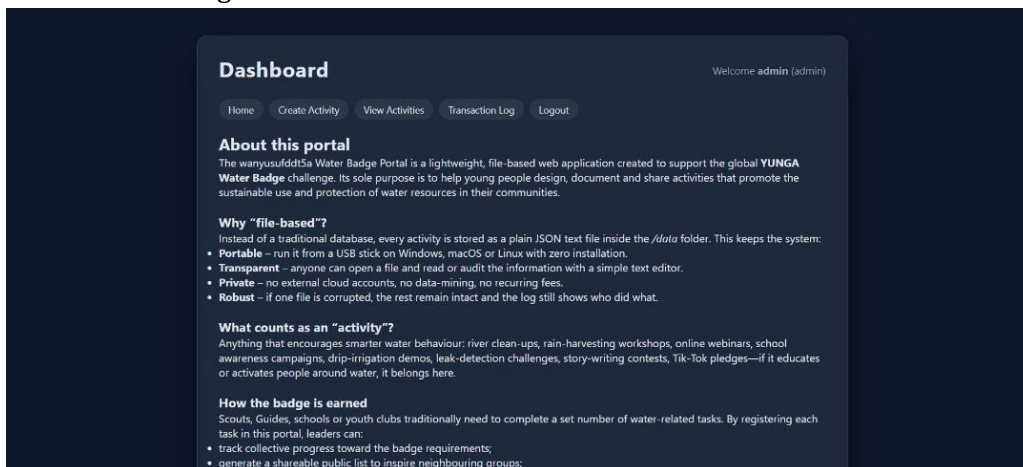
1. Introduction

The wanyusufddt5a portal is a dark-themed, file-based web app built to advance the YUNGA Water Badge challenge. It helps young people with tools to design, save and track water-awareness events—river clean-ups, school campaigns, webinars or talks—without any database overhead. Two roles share the workspace: administrators who can create, read, update, delete and audit every activity, and youth users who can add new initiatives and browse the growing catalogue of actions that encourage smarter, sustainable water use.



2. System Overview

The system is divided into multiple modules, such as user authentication, activity handling, and transaction tracking. Every operation carried out in the system—like adding or removing an activity—is documented in a transaction log to ensure accountability. The interface adopts a simple yet modern aesthetic built with HTML and CSS, and all information is organized and stored in structured text files.



3. Step-by-Step Development Process

- **Step 1: Planning & Design**

- The development process began with defining the purpose, target users, and main features. Wireframes were designed to visualize the interface layout for login, dashboard, and activity management pages.

- **Step 2: Setting Up Project Environment**

- A local development environment was set up using Laragon, which includes Apache, PHP, and MySQL. A project folder was created inside the web root directory for easy access via localhost.

- **Step 3: Database and File Handling Design**

- Instead of using a full MySQL schema, the system relies on text file storage for simplicity. Each activity save is stored in a plain text file, and all actions are logged in a separate log file.

- **Step 4: Login and Session Management**

- A login system was made using PHP sessions. Credentials for Admin and Youth users are checked through a secure function that checks the stored user data before allowing access to the dashboard.

- **Step 5: Activity Management Module**

- The activity_form.php page allows user able to enter their inputs and it will be saved into a txt file.

Create Water Activity Register a new activity supporting the YUNGA Water badge.

Home Create Activity View Activities Transaction Log Logout

Activity Title *

Awareness Talk

Location *

dd/mm/yyyy

--:--:--

Target group

Max participants

Contact person

Contact email

Registration link (optional)

How does this activity support the Water badge?

Save Activity

- **Step 6: Display and CRUD Operations**

- The tasks.php page displays a table of all task. Admins able to manage (View, Edit, Delete).

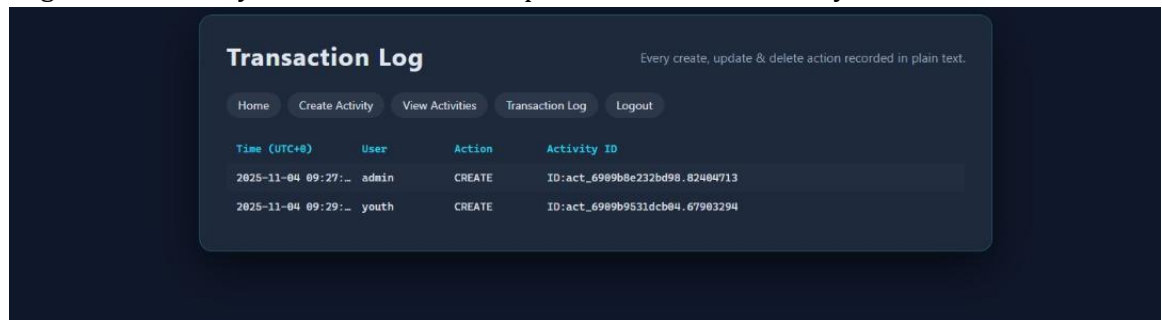
Water Activities Browse every registered activity.

Home Create Activity View Activities Transaction Log Logout

Title	Type	Date	Location	Created by	Actions
Water Badge Campaign	Awareness Talk	2025-12-20	Jalan Timah 3/1, Sekolah Kebangsaan Maju Jaya.	youth	View Edit Delete
Motivational Speak	School Campaign	2025-01-23	112, Jalan Tembaga 2, Sekolah Kebangsaan Maju Jaya.	admin	View Edit Delete

- **Step 7: Transaction Log Feature**

- Log file saves every action with timestamps, user roles, and activity IDs.



- **Step 8: Interface Styling**

- CSS was used to enhance the user interface, featuring modern card layouts, rounded buttons, and soft shadows for readability.

- **Step 9: Testing and Debugging**

- Each module was tested on localhost to ensure functionality. Bugs were resolved using PHP error logging and browser console checks.

- **Step 10: Hosting Process**

- The final system was uploaded to InfinityFree hosting. All PHP and text files were placed in the /htdocs directory, and the site was tested using the hosting domain.

4. Hosting Process

- The project was hosted on **InfinityFree**, a free web hosting service that provides PHP and MySQL support.

The deployment process involved:

- Compressing the local project folder into a ZIP file for upload.
- Uploading the ZIP file to InfinityFree's File Manager inside the **/htdocs/** directory.
- Extracting the files and verifying the folder structure.
- Testing the website using the assigned domain URL to ensure proper functionality.
- Adjusting file permissions and configurations to match the localhost setup.

5. Group Members' Job Scope

- **Member 1: Project Lead & Backend Developer (MUHAMMAD YUSUF BIN ASSAN RAMLAN)**
Responsible for overall project planning, backend development in PHP, login system implementation, and transaction log management.
- **Member 2: Frontend Designer & UI Specialist (WAN MOHAMMAD DANISH IRFAN BIN WAN MOHD NORNIZAM)**
In charge of interface layout design using HTML and CSS, developing responsive modern components, and maintaining a consistent visual style across the application.

6. Conclusion

The YUNGA Challenge: WATER Badge web system successfully fulfills its goal of promoting sustainable water management through interactive tasks. The project shows skills in PHP development, file handling, user interface design, and hosting deployment. It also enhances teamwork, communication, and problem-solving abilities throughout the project lifecycle.