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UNIVERSITI
TEKNOLOGI
MARA

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

BACHELOR OF COMPUTER SCIENCE (HONS.)

CSC584 - ENTERPRISE PROGRAMMING

GROUP: CDCS240/NBC404A

PREPARED BY:

NAME	STUDENT ID
ILHAM DANIAL BIN ROSLI	2024952605
JAAFAR SIDDIQ BIN KHAIRUL FAUZI	2024351221
AFI AMZAR BIN ZAINAL ABIDIN	2024142881
FARIS FAZARI BIN MOHAMED FAUDZI	2024515503
MOHD ZUBIR BIN ZAILANI	2024511651

LECTURER NAME: MUHAMMAD RIDHWAN BIN MOHAMAD RAZALI

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1.0 INTRODUCTION

Digital transformation plays a crucial role in improving organizational efficiency. Many community and volunteer programs still rely on manual registration forms or social media platforms, which are not designed for systematic data management.

The E-Community Services and Volunteer Platform is developed as a centralized web-based system to streamline volunteer management processes. The system allows volunteers to register and participate in programs online, while administrators can manage events, monitor users, and generate reports efficiently.

This system applies enterprise programming concepts including database integration, authentication, role-based access control, and CRUD (Create, Read, Update, Delete) operations.

2.0 PROBLEM STATEMENT

Currently, community and volunteer activities are managed manually or through social media platforms. This approach leads to several issues:

- i. Important announcements may be missed.
- ii. Volunteer records are not systematically stored.
- iii. Participant data is scattered across multiple platforms.
- iv. Attendance tracking is inefficient.
- v. Report generation requires excessive manual work.
- vi. Data redundancy and inconsistency may occur.

These challenges reduce operational efficiency and create difficulties for organizers in tracking participation history and performance.

3.0 OBJECTIVES

The objectives of this system are:

- i. To provide a centralized online platform for volunteer registration;
- ii. To store volunteer and program data in a structured database;
- iii. To enable administrators to manage programs efficiently;
- iv. To generate participation reports automatically;
- v. To improve transparency and communication between organizers and volunteers; and
- vi. To reduce manual paperwork and data redundancy.

4.0 DEMONSTRATION

During the system demonstration, users will be able to:

- i. Register an account as a volunteer
- ii. Log in to the system
- iii. View available activities
- iv. Register for activities
- v. Check their participation status

Meanwhile, the admin will be able to:

- i. Add and manage activities
- ii. View participant lists
- iii. Update program status
- iv. Generate participation reports

4.1 Login Page

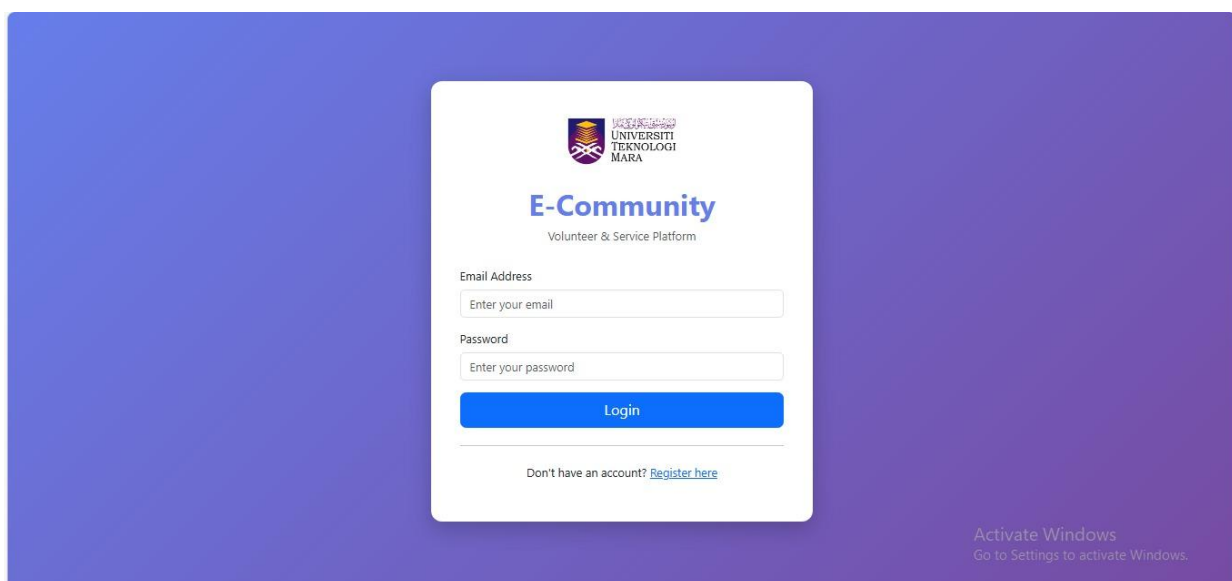


FIGURE 1: Login Page

On this page, users can log in using their registered email and password. Only authenticated users can access the admin dashboard and manage system functionalities.

4.2 Registration Page

Register Account
Join our community service platform

Email Address *
example@email.com

Full Name *
Your full name

User Type *
-- Select User Type --

Phone Number
0123456789

Password *
Minimum 6 characters
Must be at least 6 characters

Confirm Password *
Re-enter password

Register

Already have an account? [Login here](#)

Activate Windows
Go to Settings to activate Windows.

FIGURE 2: Register Page

If a user does not have an account, they can click the “**Register**” link. This redirects them to the registration page where they can input their details to create an account. Upon successful registration, the user is redirected back to the login page to log in.

4.3 User Dashboard Interface

E-Community Dashboard Programs My Participations ILHAM DANIAL BIN ROSLI

Dashboard
Welcome back, ILHAM DANIAL BIN ROSLI!

Total Users
5
Registered members

Total Programs
3
Available programs

My Participations
0
Programs joined

My Total Hours
0.0
Hours contributed

Quick Actions
[Browse Programs](#) [My Participations](#) [Logout](#)

E-Community Platform
Connecting volunteers with community service opportunities.

Quick Links
[Home](#)
[Programs](#)
[Login](#)

Contact
Email: danielilham53@gmail.com
Phone: +601 485 5456

Activate Windows
Go to Settings to activate Windows.

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FIGURE 3: User Dashboard

After logging in, users are directed to the **Dashboard**, which provides a quick overview of the system. It displays:

- Total users
- Total programs
- User participation
- Total hours contributed by users

4.4 Quick Link

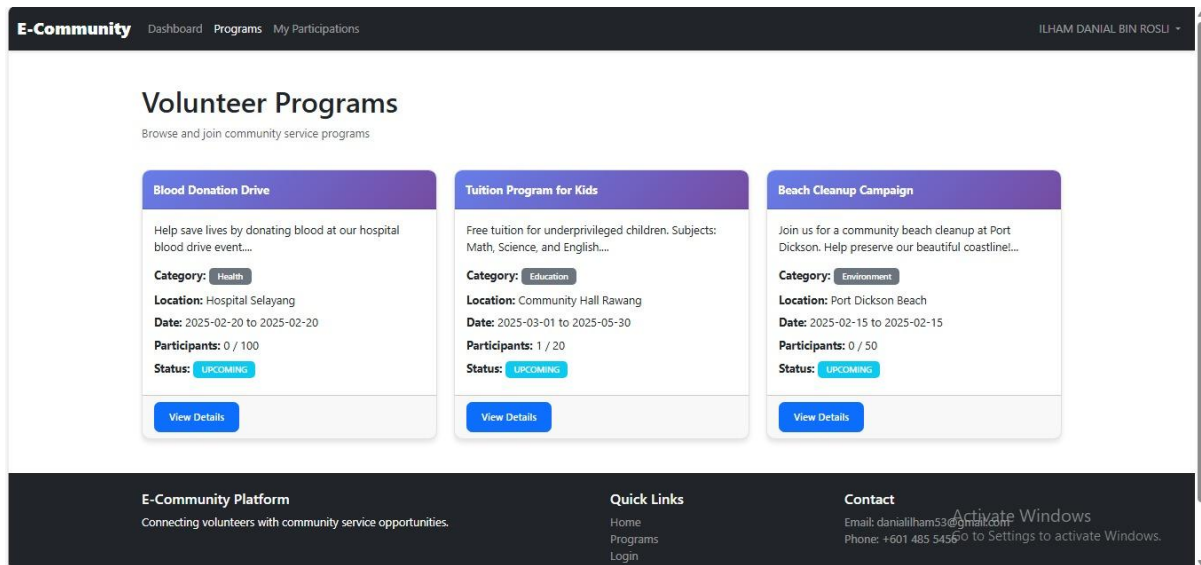


FIGURE 4: User programs quick link

Dashboard for user to see any volunteer program that can participate.

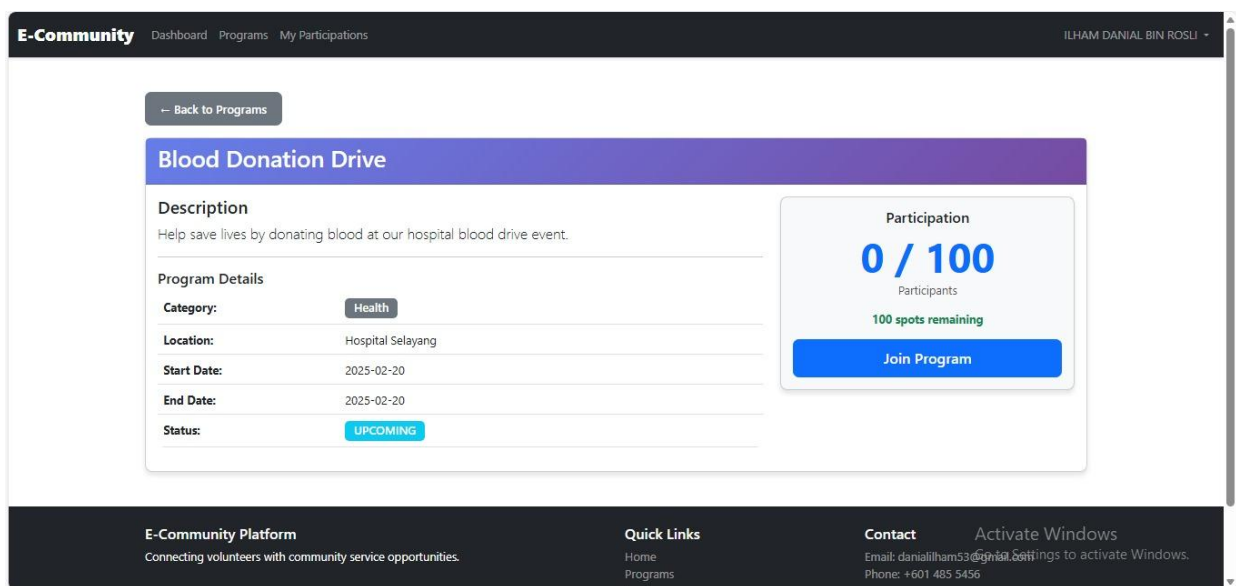


FIGURE 5: Volunteer program that available

User had been checking and participate the program

E-Community

DashboardProgramsMy Participations

ILHAM DANIAL BIN ROSLI

My Participations

#	Program Name	Registration Date	Status	Hours Contributed	Rating	Actions
1	Blood Donation Drive	2026-01-25 23:48:31.113	REGISTERED	0.00 hrs	Not rated	<button>View</button> <button>Cancel</button>

Summary

Total Programs Joined: 1

Total Hours Contributed: 0.0 hours

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Go to Settings to activate Windows.

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FIGURE 6: Validation participation

Participation on blood donation had been done by user.

4.5 Admin Dashboard

The screenshot displays the 'Volunteer Programs' section of the E-Community Admin Dashboard. The header includes the 'E-Community' logo, navigation links (Dashboard, Programs, My Participations, User List, Activity Log), and the user 'Admin User'. A 'Create New Program' button is located in the top right. The main content area features three program cards: 'Blood Donation Drive' (Health category, Hospital Selayang location, 2025-02-20 to 2025-02-20 date, 1/100 participants), 'Tuition Program for Kids' (Education category, Community Hall Rawang location, 2025-03-01 to 2025-05-30 date, 1/20 participants), and 'Beach Cleanup Campaign' (Environment category, Port Dickson Beach location, 2025-02-15 to 2025-02-15 date, 0/50 participants). Each card has 'View Details', 'Edit', and 'Delete' buttons. The footer contains 'E-Community Platform' information, 'Quick Links' (Home, Programs, Login), and 'Contact' details (Email: danielilham53@gmail.com, Phone: +601 485 5456).

Volunteer Programs
Browse and join community service programs

Blood Donation Drive
Help save lives by donating blood at our hospital blood drive event....
Category: Health
Location: Hospital Selayang
Date: 2025-02-20 to 2025-02-20
Participants: 1 / 100
Status: UPCOMING
[View Details](#) [Edit](#) [Delete](#)

Tuition Program for Kids
Free tuition for underprivileged children. Subjects: Math, Science, and English....
Category: Education
Location: Community Hall Rawang
Date: 2025-03-01 to 2025-05-30
Participants: 1 / 20
Status: UPCOMING
[View Details](#) [Edit](#) [Delete](#)

Beach Cleanup Campaign
Join us for a community beach cleanup at Port Dickson. Help preserve our beautiful coastline....
Category: Environment
Location: Port Dickson Beach
Date: 2025-02-15 to 2025-02-15
Participants: 0 / 50
Status: UPCOMING
[View Details](#) [Edit](#) [Delete](#)

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Connecting volunteers with community service opportunities.

Quick Links
[Home](#)
[Programs](#)
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Phone: +601 485 5456

FIGURE 7: Admin program dashboard

Admin can check, edit and remove any volunteer program. Admin also can add new program

The screenshot displays the 'Activity Log (Admin Only)' section of the E-Community Admin Dashboard. The header is identical to Figure 7. The main content area shows a table of system activity tracking for login and logout actions. The table has columns for ID, User, Action, Description, IP Address, and Date & Time. Below the table is a 'Back to Dashboard' button. The footer is identical to Figure 7.

Activity Log (Admin Only)
System activity tracking - Login, Logout, and other actions

ID	User	Action	Description	IP Address	Date & Time
5	ILHAM DANIAL BIN ROSLI	LOGOUT	User logged out successfully	0.0.0.0:0.0:1	2026-01-25 23:49:21.785
4	Zubir	LOGOUT	User logged out successfully	0.0.0.0:0.0:1	2026-01-13 23:25:21.581
3	ILHAM DANIAL BIN ROSLI	LOGOUT	User logged out successfully	0.0.0.0:0.0:1	2026-01-12 22:19:57.83
2	Siti Binti Hassan	LOGOUT	User logged out successfully	0.0.0.0:0.0:1	2026-01-07 23:42:42.913
1	Admin User	LOGOUT	User logged out successfully	0.0.0.0:0.0:1	2026-01-07 23:42:13.431

[Back to Dashboard](#)

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Connecting volunteers with community service opportunities.

Quick Links
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[Programs](#)
[Login](#)

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FIGURE 8: Log activity

Admin can track user login

CONCLUSION

In conclusion, the E-Community Services and Volunteer Platform successfully addresses inefficiencies in managing volunteer activities. By implementing enterprise programming concepts and database-driven architecture, the system enhances operational efficiency and ensures structured data management.

The platform improves communication between organizers and volunteers while reducing administrative workload. With future enhancements, the system can be further expanded into a fully scalable enterprise-level volunteer management solution.