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**BACHELOR OF COMPUTER SCIENCE (HONS.)**

**CSC584 - ENTERPRISE PROGRAMMING**

**GROUP: CDGS240/NBC404A**

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## **TABLE OF CONTENT**

<b>TABLE OF CONTENT .....</b>	<b>2</b>
<b>1.0 INTRODUCTION.....</b>	<b>3</b>
<b>2.0 PROBLEM STATEMENT.....</b>	<b>3</b>
<b>3.0 OBJECTIVES.....</b>	<b>3</b>
<b>4.0 DEMONSTRATION.....</b>	<b>4</b>
<b>4.2 Registration Page .....</b>	<b>5</b>
<b>4.3 User Dashboard Interface .....</b>	<b>5</b>
<b>4.4 Quick Link.....</b>	<b>6</b>
<b>4.5 Admin Dashboard.....</b>	<b>8</b>
<b>CONCLUSION.....</b>	<b>9</b>

## **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

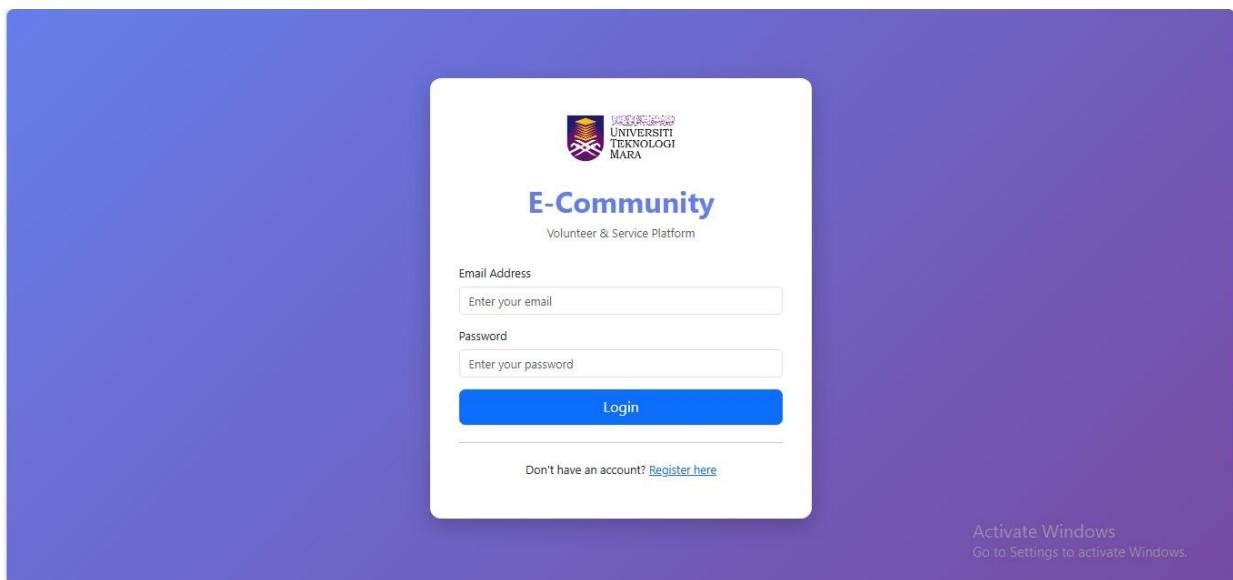
During the system demonstration, users will be able to:

- 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

The registration page features a central form titled "Register Account" with the subtitle "Join our community service platform". It includes fields for Email Address, Full Name, User Type (dropdown), Phone Number, Password (with validation for minimum 6 characters), and Confirm Password. A "Register" button is at the bottom, and a link to "Login here" is below it. The background is purple, and there's a sidebar on the right with the text "Activate Windows Go to Settings to activate Windows.".

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

The dashboard has a dark header with "E-Community" and navigation links for "Dashboard", "Programs", and "My Participations". The main area is titled "Dashboard" and shows a welcome message "Welcome back, ILHAM DANIAL BIN ROSLI!". It features four cards: "Total Users" (5 registered members), "Total Programs" (3 available programs), "My Participations" (0 programs joined), and "My Total Hours" (0.0 hours contributed). Below this is a "Quick Actions" section with buttons for "Browse Programs", "My Participations", and "Logout". The footer contains "E-Community Platform" info, "Quick Links" (Home, Programs, Login), "Contact" info (email: danialilham53@gmail.com, phone: +601 485 5456), and a "Activate Windows" sidebar.

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: danialilham53@gmail.com  
Phone: +601 485 5456

Activate Windows  
Go to Settings to activate Windows.

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

**Volunteer Programs**

Browse and join community service programs

Blood Donation Drive	Tuition Program for Kids	Beach Cleanup Campaign
Help save lives by donating blood at our hospital blood drive event...	Free tuition for underprivileged children. Subjects: Math, Science, and English...	Join us for a community beach cleanup at Port Dickson. Help preserve our beautiful coastline!...
<b>Category:</b> Health	<b>Category:</b> Education	<b>Category:</b> Environment
<b>Location:</b> Hospital Selayang	<b>Location:</b> Community Hall Rawang	<b>Location:</b> Port Dickson Beach
<b>Date:</b> 2025-02-20 to 2025-02-20	<b>Date:</b> 2025-03-01 to 2025-05-30	<b>Date:</b> 2025-02-15 to 2025-02-15
<b>Participants:</b> 0 / 100	<b>Participants:</b> 1 / 20	<b>Participants:</b> 0 / 50
<b>Status:</b> UPCOMING	<b>Status:</b> UPCOMING	<b>Status:</b> UPCOMING
<a href="#">View Details</a>	<a href="#">View Details</a>	<a href="#">View Details</a>

**E-Community Platform**  
Connecting volunteers with community service opportunities.

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

**Contact**  
Email: [danielilham53@gmail.com](mailto:danielilham53@gmail.com) [Activate Windows](#)  
Phone: +601 485 5456

**FIGURE 4: User programs quick link**

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

[-- Back to Programs](#)

**Blood Donation Drive**

**Description**  
Help save lives by donating blood at our hospital blood drive event.

**Program Details**

<b>Category:</b>	Health
<b>Location:</b>	Hospital Selayang
<b>Start Date:</b>	2025-02-20
<b>End Date:</b>	2025-02-20
<b>Status:</b>	UPCOMING

**Participation**

**0 / 100**  
Participants  
100 spots remaining

[Join Program](#)

**E-Community Platform**  
Connecting volunteers with community service opportunities.

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

**Contact**  
Email: [danielilham53@gmail.com](mailto:danielilham53@gmail.com) [Activate Windows](#)  
Phone: +601 485 5456

**FIGURE 5: Volunteer program that available**

User had been checking and participate the program

The screenshot shows the 'My Participations' section of the E-Community Platform. At the top, there's a navigation bar with 'E-Community' and links for 'Dashboard', 'Programs', and 'My Participations'. On the right, it shows 'ILHAM DANIAL BIN ROSLI' and a dropdown arrow. Below the navigation is a table titled 'My Participations' with columns: '#', 'Program Name', 'Registration Date', 'Status', 'Hours Contributed', 'Rating', and 'Actions'. One row is listed: '1 Blood Donation Drive 2026-01-25 23:48:31,113 REGISTERED 0.00 hrs Not rated View Cancel'. Underneath the table, a summary box displays: 'Summary', 'Total Programs Joined: 1', and 'Total Hours Contributed: 0.0 hours'. At the bottom of the page, there's a footer with sections for 'E-Community Platform' (Connecting volunteers with community service opportunities), 'Quick Links' (Home, Programs, Login), 'Contact' (Email: danialilham53@gmail.com, Phone: +601 485 5456), and an 'Activate Windows' notice.

#	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	<a href="#">View</a> <a href="#">Cancel</a>

**Summary**  
Total Programs Joined: 1  
Total Hours Contributed: 0.0 hours

**E-Community Platform**  
Connecting volunteers with community service opportunities.

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

**Contact**  
Email: [danialilham53@gmail.com](mailto:danialilham53@gmail.com)  
Phone: +601 485 5456

Activate Windows  
Go to Settings to activate Windows.

**FIGURE 6: Validation participation**

Participation on blood donation had been done by user.

## 4.5 Admin Dashboard

**Volunteer Programs**

Browse and join community service programs

**Create New Program**

Blood Donation Drive	Tuition Program for Kids	Beach Cleanup Campaign
Help save lives by donating blood at our hospital blood drive event...	Free tuition for underprivileged children. Subjects: Math, Science, and English....	Join us for a community beach cleanup at Port Dickson. Help preserve our beautiful coastline!...
<b>Category:</b> Health	<b>Category:</b> Education	<b>Category:</b> Environment
<b>Location:</b> Hospital Selayang	<b>Location:</b> Community Hall Rawang	<b>Location:</b> Port Dickson Beach
<b>Date:</b> 2025-02-20 to 2025-02-20	<b>Date:</b> 2025-03-01 to 2025-05-30	<b>Date:</b> 2025-02-15 to 2025-02-15
<b>Participants:</b> 1 / 100	<b>Participants:</b> 1 / 20	<b>Participants:</b> 0 / 50
<b>Status:</b> UPCOMING	<b>Status:</b> UPCOMING	<b>Status:</b> UPCOMING
<a href="#">View Details</a> <a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">View Details</a> <a href="#">Edit</a> <a href="#">Delete</a>	<a href="#">View Details</a> <a href="#">Edit</a> <a href="#">Delete</a>

**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.

FIGURE 7: Admin program dashboard

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

**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	0:0:0:0:0:1	2026-01-25 23:49:21.785
4	Zubir	LOGOUT	User logged out successfully	0:0:0:0:0:1	2026-01-13 23:25:21.581
3	ILHAM DANIAL BIN ROSLI	LOGOUT	User logged out successfully	0:0:0:0:0:1	2026-01-12 22:19:57.83
2	Siti Binti Hassan	LOGOUT	User logged out successfully	0:0:0:0:0:1	2026-01-07 23:42:42.913
1	Admin User	LOGOUT	User logged out successfully	0:0:0:0:0:1	2026-01-07 23:42:13.431

[Back to Dashboard](#)

**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.

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.