

ST10163788



PEACE SALOMY PHIRI

SOEN6222 PART 3

SOFTWARE ENGINEERING

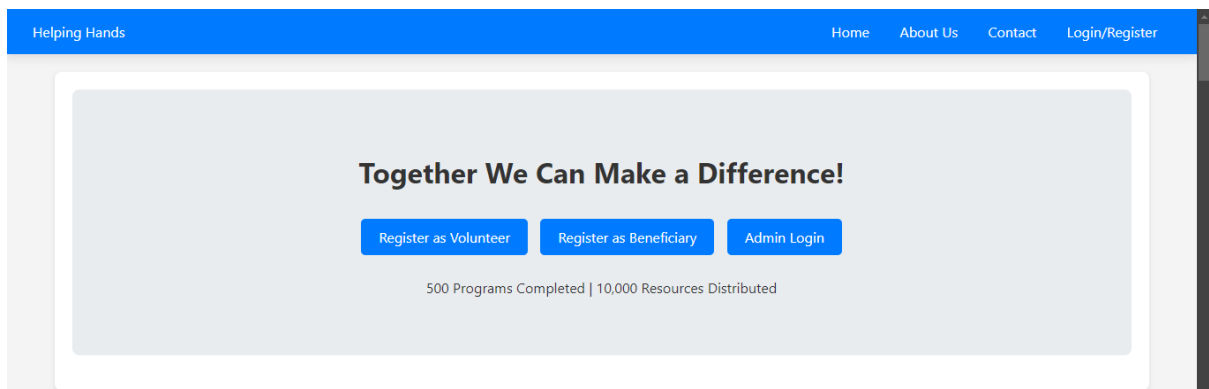


NOVEMBER 19, 2024

IIEMSA RUIMSIG CAMPUS

POE PART 3

QUESTION 2

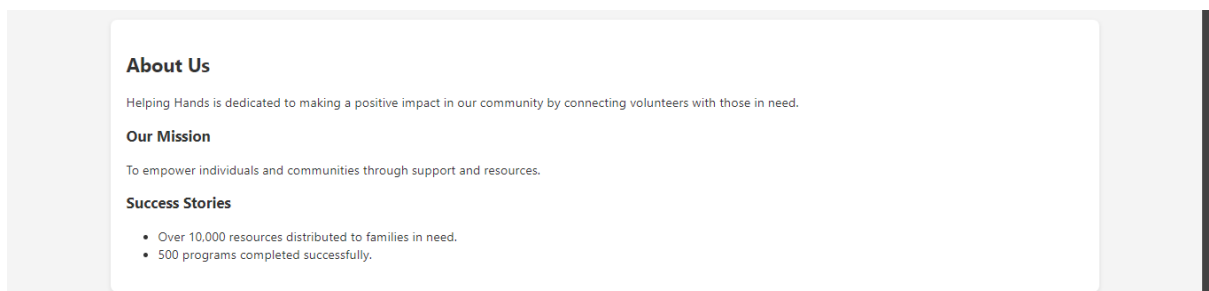


Screenshot 1: Home Page

The home page of the Helping Hands system displays an inviting banner that emphasizes the organization's mission of community service. New visitors can see options to register as either a volunteer or a beneficiary. This page aims to create a welcoming environment and provide clear pathways for users to engage with the platform. The highlighted statistics, such as "500 Programs Completed" and "10,000 Resources Distributed," showcase the organization's impact and encourage participation. It also provides an option for an admin to login directly

Functional Requirements Met:

- **Registration and Authorization of Users:** This page facilitates user registration by providing convenient links for new users to create accounts.
- Access Control based on roles (RBAC)



Screenshot 2: About Us Page

The About Page provides visitors with an overview of Helping Hands, its mission, vision, and the values that guide its work like the success stories. This page is designed to establish credibility and connect emotionally with users by showcasing the organization's history and achievements. Key features include:

Mission and Success Stories: Clearly states the organization's purpose, such as empowering communities and providing essential support like food, clothing, and education to those in need

The screenshot displays a web interface titled "Login / Register". It is divided into two main sections: "Login" and "Register".

Login Section:

- Fields for "Email:" and "Password:".
- A "Role:" dropdown menu with the text "Select Role".
- A blue "Login" button.
- A link labeled "Forgot Password?" below the login button.

Register Section:

- Fields for "Name:", "Email:", "Password:", and "Confirm Password:".
- A "Role:" dropdown menu with the text "Select Role".
- A blue "Register" button.

Screenshot 3: Registration/Login Page

The Registration/Login Page is where users can log in or register based on their role (volunteer, beneficiary, or administrator). The login form includes fields for email, password, and a role dropdown. Beneath the login form is the registration form for new users, allowing them to provide their name, email, password, and role selection.

Key Features:

Login Form: Allows existing users to log in with their credentials.

Registration Form: New users can register by entering their details and selecting their role.

Requirements Fulfilled:

Implements Registration and Authorization of Users, ensuring users can register with their email and password.

Supports Role-Based Access Control (RBAC) by assigning roles during registration.

My ProgramsLog HoursUpdate AvailabilityLogout

Volunteer Dashboard

My Programs

Program Name: Community Cleanup Drive

Date: 2024-11-20

Details: Assist with cleaning and organization at the community park.

Log Hours

Program Name:

Community Cleanup Drive

Hours Worked:

Comments:

Save

Update Availability

Use a calendar to mark your available dates.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

Save Availability

Saved availability for 2024-11-18, 2024-11-22, 2024-11-28

Screenshot 4: Volunteer Dashboard

The volunteer dashboard provides an overview of assigned programs, logged hours, and availability status. Volunteers can easily navigate through their tasks and see upcoming events. This section empowers volunteers to manage their contributions effectively while providing a summary of their engagement with the community.

Functional Requirements Met:

Management of Volunteers: Allows volunteers to track their work hours, modify availability, and manage program registrations.

Fulfils **Role-Based Access Control (RBAC)** by restricting features to volunteers.

The screenshot displays a web application interface for a 'Beneficiary Dashboard'. At the top, a blue navigation bar contains links for 'Request Assistance', 'My Resources', 'Feedback', and 'Logout'. The main content area is divided into three sections: 1. 'Request Assistance' with a dropdown menu for 'Assistance Type' (currently showing 'Select Assistance Type') and a text input for 'Additional Comments', followed by a 'Submit Request' button. 2. 'My Resources' which contains a table with three columns: 'Resource Name', 'Quantity', and 'Date Allocated'. The table has one data row: 'Food Package', '2', and '2024-11-10'. 3. 'Feedback' with a text input labeled 'Provide your feedback here...' and a 'Submit Feedback' button.

Resource Name	Quantity	Date Allocated
Food Package	2	2024-11-10

Screenshot 5: Beneficiary Dashboard

The Beneficiary Dashboard allows beneficiaries to request assistance, view allocated resources, and provide feedback. The Request Assistance form enables beneficiaries to specify the type of assistance they need (e.g., food, clothing, education). The My Resources section displays a table of allocated resources with details such as the resource name, quantity, and date allocated.

Key Features:

Request Assistance: A form to request additional resources.

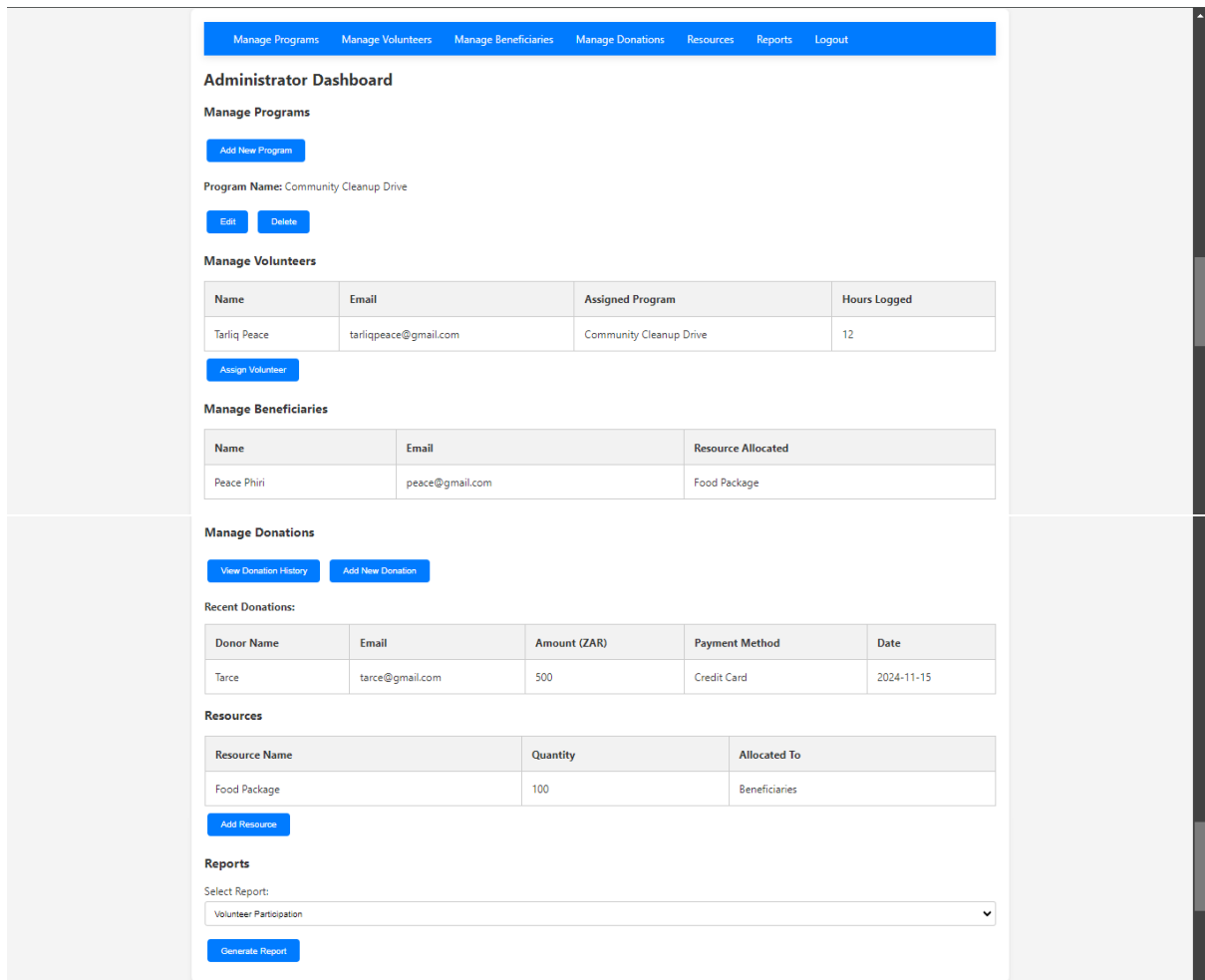
My Resources: A table listing allocated resources.

Feedback Section: Allows beneficiaries to submit feedback or report issues.

Requirements Fulfilled:

Implements Management of Beneficiaries by displaying resource allocation details.

Supports Reporting Problems and Providing Feedback through the feedback form.



Screenshot 6: Administrator Dashboard Screenshot

The Administrator Dashboard enables administrators to manage programs, volunteers, beneficiaries, and resources. The Manage Programs section lists all programs with options to Add New Program, Edit, or Delete. Additional sections allow administrators to view and allocate resources and manage users as well as manage donations.

Key Features:

Manage Programs: Add, edit, or delete programs.

Resource Management: Allocate resources to specific programs or beneficiaries.

User Management: Assign volunteers to programs or manage beneficiary records.

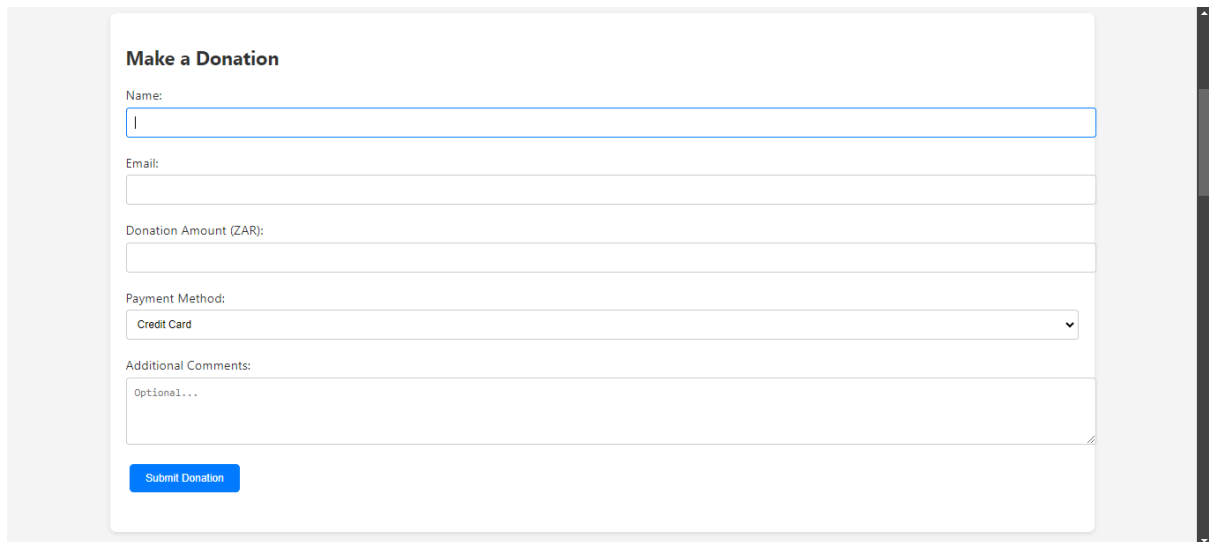
Donation Management

Requirements Fulfilled:

Fulfills Management and Creation of Programs by enabling program creation and modification.

Implements Allocation and Tracking of Resources by managing resource distribution.

Meets requirement to manage donations.

A screenshot of a web form titled "Make a Donation". The form is white with a light gray border and is set against a light gray background. It contains several input fields: a "Name:" field with a blue border, an "Email:" field, a "Donation Amount (ZAR):" field, a "Payment Method:" dropdown menu with "Credit Card" selected, and a "Additional Comments:" text area with placeholder text "Optional...". A blue "Submit Donation" button is at the bottom left of the form. A vertical scrollbar is visible on the right side of the form.

Screenshot 7: Donations Page

The Donations page allows users to make monetary contributions to the Helping Hands initiative. Users can input their name, email, and the donation amount, and they can select their preferred payment method, such as credit card, debit card, or PayPal. This section is designed for individuals who want to support the organization's mission financially. The optional comments field lets donors express any specific intentions or messages regarding their contributions. This page enhances user engagement by providing an easy way to contribute to community programs and resources.

Functional Requirements Met:

Management of Donations: This page allows administrators to register and monitor cash donations, ensuring that contributions are logged correctly.

Implements **Payment Gateway Integration** for secure monetary donations (e.g., PayPal).

Contact Us

Name:

Email:

Message:

[Send Message](#)

Office Location: 123 Helping Hands St. sandton, South Africa
Contact Number: 067 456-7890

Follow us on:
[Facebook](#) | [Twitter](#)

Contact: info@helpinghands.org | [Privacy Policy](#) | [Terms of Use](#)

Screenshot 8: Contact Page

The Contact Page provides users with a simple way to reach out to Helping Hands for inquiries, support, or collaboration. Key features include:

Contact Form: Allows users to submit their name, email, and message directly to the organization. It's an easy way for volunteers, beneficiaries, or donors to ask questions or provide feedback.

Organization Details: Displays the organization's address, and phone number for those who prefer direct communication.

Social Media Links: Provides quick access to Helping Hands' social media platforms for updates and engagement.

The Contact Page ensures seamless communication between Helping Hands and its users, enhancing accessibility and responsiveness. It also supports engagement by encouraging feedback and inquiries.

POE SUBTOTAL				/100
RUBRIC POE — Self-Evaluation	Levels of Achievement			Score
	Excellent	Good	Developing	
	Score Ranges Per Level (½ marks possible)			
Criteria (3)	3 • Bravo! You have done exceptionally well!	2 You are on the right track, but you can do better!	0 to 1 You have learned something – but you are not proving it!	3
Reflection (3)	3 • Reflection shows thorough thoughtfulness. • Reflection has several supporting details and examples. • All parts of the reflection are complete and done.	2 Reflection shows little thoughtfulness. Reflection has few details or examples. Most parts of the reflection are incomplete.	0 to 1 • Reflection shows no thoughtfulness. • Reflection has no details. • Reflection is incomplete.	3
Demonstration of Learning (4)	4 • Clearly explains what was learned. • Reflection is beyond simple description of event/experience to an analysis of how it contributed to learning and understanding.	2 to 3 The reflection demonstrates student's attempt to analyse the event/experience but fails to demonstrate depth of analysis.	0 to 1 • Reflection does not move beyond description of the event/experience.	4
POE – Self Evaluation TOTAL				10 / 10

Self-Evaluation Reflection on Software Engineering Module (191 Words)

This software engineering module has been an eye-opening experience that helped me understand the steps involved in developing software systems. I learned how to gather and analyse user requirements, create diagrams like UML to represent the system, and design solutions that meet both user and technical needs. Building the Helping Hands system taught me how to turn ideas into a working design and how important it is to plan each step carefully.

One of the most valuable lessons was understanding how to break a big project into smaller, manageable parts. For example, designing role-based access control and managing resources helped me see how all the pieces of a system fit together. At first, I struggled to balance design, functionality, and user experience, but by working step by step and testing regularly, I was able to overcome these challenges.

This module also showed me the importance of documenting work and testing thoroughly to ensure the system works as expected. I now feel more confident about applying these skills in real-world projects. Overall, this experience has strengthened my problem-solving skills and given me a solid foundation to build better software in the future.