

NSS WEB PORTAL

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BY

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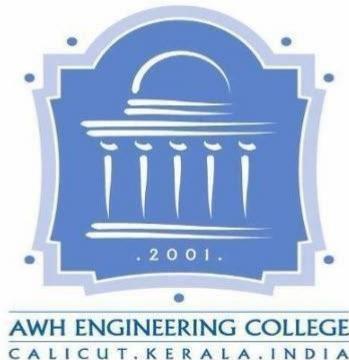
DEPARTMENT OF COMPUTER APPLICATIONS

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MAY 2023

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AWH ENGINEERING COLLEGE

KOZHIKODE

CERTIFICATE

This is to certify that this thesis entitled "NSS WEB PORTAL" submitted herewith is an authentic record of the thesis work done by MUHAMMED HILAL M (AWH21MCA-2021) under our guidance in partial fulfillment of the requirements for the award of Master of Computer Applications from APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY during the academic year 2023.

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MUHAMMED HILAL M

ABSTRACT

The NSS Web Portal is a government-developed digital platform designed to streamline the management and coordination of National Service Scheme (NSS) activities at the state level. Its key features and modules include student registration, activity reporting, program management, attendance tracking, and volunteer management. The portal provides a range of tools to facilitate data analysis, report generation, and feedback collection, enabling authorities to effectively monitor and evaluate the progress of NSS activities within the state. This feature enhances decision-making and allows for informed interventions to improve the effectiveness of the NSS. Furthermore, the NSS Web Portal is scalable and customizable, allowing authorities to adapt it to their specific needs and requirements. This flexibility ensures that the portal can be tailored to accommodate different state-level processes and procedures related to NSS management. The NSS Web Portal serves as a powerful tool that simplifies the process of NSS management. By providing a centralized platform for various activities, it promotes efficient coordination and administration of NSS initiatives. Additionally, the portal encourages and nurtures the spirit of community service among the youth of the nation, as they actively participate in NSS programs and contribute to the betterment of society.

CONTENT

	Page No
1. INTRODUCTION	1
2. SYSTEM ANALYSIS	3
2.1 Existing System	4
2.2 Proposed System	4
2.3 Module Description	5
2.4 Sprint	7
2.5 User Stories	11
3. FEASIBILITY STUDY	12
3.1 Economical Feasibility	13
3.2 Technical Feasibility	13
3.3 Operational Feasibility	13
3.4 Behavioral Feasibility	14
3.5 Software Feasibility	14
3.6 Hardware Feasibility	14
4. SOFTWARE ENGINEERING PARADIGM	15
4.1 Agile Model	16
4.2 Scrum	16
5. SYSTEM REQUIREMENT SPECIFICATIONS	19
5.1 Software Requirements	20
5.2 Hardware Requirements	20
6. SYSTEM DESIGN	21
6.1 Database Design	22
6.2 Collections	22
6.3 UML Design	24
6.4 Use Case Diagram	25
6.5 Scenario	27
6.6 Sequential Diagram	29

7. SYSTEM DEVELOPMENT	35
7.1 Coding	36
8. SYSTEM TESTING AND IMPLEMENTATION	38
8.1 Types of Testing	39
9. SYSTEM MAINTENANCE	41
10. FUTURE ENHANCEMENT	43
11. CONCLUSION	45
12. APPENDIX	47
13. BIBLIOGRAPHY	79

INTRODUCTION

1. INTRODUCTION

The NSS (National Service Scheme) Web Portal is a dedicated platform designed to facilitate the management and coordination of various NSS activities at the state level. This portal is an initiative taken by the government to digitize the entire process of NSS, making it more accessible and efficient for the users. The Portal is equipped with various features and modules, such as student registration, activity reporting, program management, attendance tracking, and volunteer management. It also provides tools for data analysis, report generation, and feedback collection, making it easier for authorities to monitor and evaluate the progress of NSS activities in the state.

NSS Web Portal serves as a comprehensive and user-friendly platform that digitizes and streamlines the management of NSS activities. By providing a range of features and modules, it promotes efficient coordination, data-driven decision-making, and active engagement among NSS stakeholders. Ultimately, this initiative aims to nurture the spirit of community service and empower the youth of the nation to contribute meaningfully to society. Moreover, the NSS Web Portal is designed to be scalable and customizable, allowing authorities to tailor it to their specific needs and requirements. It is a powerful tool that simplifies the process of NSS management and helps promote the spirit of community service among the youth of the nation.

SYSTEM ANALYSIS

2. SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, problems and using the information to recommend improvements of the system.

2.1 Existing System

The existing system of the NSS (National Service Scheme) Web Portal is a digital platform that facilitates the management and coordination of various NSS activities at the university level. The portal is designed to provide a interface for colleges to register for NSS programs, report their activities and also still relies on manual processes and paper-based documentation in some cases, such as the submission of physical forms and documents.

Limitations Of Existing System

- Lack of customization
- Dependence on manual processes
- Limited accessibility

2.2 Proposed System

A proposed system for the NSS (National Service Scheme) Web Portal and software would be designed to address the limitations of the existing system and provide a more accessible, efficient, and effective platform for managing NSS activities in state level.

Advantages Of Proposed System

- Improved accessibility
- Increased efficiency
- Customization
- Integration
- Reliable infrastructure

2.3 Module Description

This project has six modules.

➤ Admin(State coordinator)

- Login.
- Manage Profile
- Manage Events
- Manage News
- Authentication of University Coordinators
- Manage University Coordinators
- Manage Fund Details
- Enrolment List View
- Reports View
- Feedback View
- Suggestion View
- Messaging

➤ University coordinator

- Registration
- Login.
- Manage Profile
- Authentication of Program Officer
- Manage Program Officer
- Manage Fund Details
- Enrolment List View
- Reports View
- Feedback View
- Messaging.

➤ **Program Officer**

- Registration
- Login.
- Manage Profile
- Authentication of Volunteers
- Manage Volunteers
- Manage Secretary
- Manage Fund Details
- Manage Project Reports
- Manage Camp Reports
- Enrolment List View
- Reports View
- Attendance View
- Manage Work Diary
- Feedback View
- Messaging

➤ **Secretary**

- Login
- Manage Project Reports
- Manage Camp Reports

➤ **Volunteers**

- Registration
- Login
- Manage Profile
- Manage Work Diary
- Manage Extra Reports

➤ **Public**

- Add Feedback
 - Add Suggestion
-

2.4 Sprint

Sprint 1

Module	Task	Pending task of any	Hours for completion	Expected date of completion	Actual date of completion	Reason for deviation
Admin	Login.	-	4 hrs	01/02/2023	01/02/2023	-
	Manage Profile	-	4 hrs	02/02/2023	02/02/2023	-
	Manage Events	-	6 hrs	03/02/2023	03/02/2023	-
	Manage News	-	6 hrs	06/02/2023	06/02/2023	-
	Authentication of University Coordinators	-	6 hrs	07/02/2023	07/02/2023	-
	Manage University Coordinators	-	6 hrs	08/02/2023	08/02/2023	-
	Manage Fund Details	-	6 hrs	09/02/2023	09/02/2023	-
	Enrolment List View	-	6 hrs	10/02/2023	10/02/2023	-
	Reports View	-	6 hrs	16/02/2023	16/02/2023	-

	Feedback View	-	4 hrs	17/02/2023	17/02/2023	-
	Suggestion View	-	6 hrs	20/02/2023	20/02/2023	-
	Messaging	-	6 hrs	21/02/2023	21/02/2023	-
Secretary	Manage Project Reports	-	12 hrs	23/02/2023	23/02/2023	-
	Manage Camp Reports	-	12 hrs	28/02/2023	28/02/2023	-

Sprint 2

Module	Task	Pending task of any	Hours for completion	Expected date of completion	Actual date of completion	Reason for deviation
University Coordinator	Registration	-	6 hrs	06/03/2023	06/03/2023	-
	Manage Profile	-	4 hrs	07/03/2023	07/03/2023	-
	Authentication of Program Officer	-	6 hrs	08/03/2023	08/03/2023	-
	Manage Program Officer	-	6 hrs	10/03/2023	10/03/2023	-
	Manage Fund Details	-	6 hrs	13/03/2023	13/03/2023	-

	Enrolment List View		6 hrs	14/03/2023	14/03/2023	-
	Reports View		6 hrs	15/03/2023	15/03/2023	-
	Feedback View		4 hrs	17/03/2023	17/03/2023	-
Volunteer	Registration	-	6 hrs	20/03/2023	20/03/2023	-
	Manage Profile	-	4 hrs	21/03/2023	21/03/2023	-
	Manage Work Dairy	-	10 hrs	23/03/2023	23/03/2023	-
	Manage Extra Reports	-	10 hrs	29/03/2023	29/03/2023	-
Public	Add Feedback	-	8hrs	30/03/2023	30/04/2023	-
	Add Suggestion	-	8hrs	31/03/2023	31/04/2023	-

Sprint 3

Module	Task	Pending task of any	Hours for completion	Expected date of completion	Actual date of completion	Reason for deviation
Program Officer	Registration	-	6 hrs	03/04/2023	03/04/2023	-
	Manage Profile	-	4 hrs	04/04/2023	04/04/2023	-
	Authentication of Volunteers	-	6 hrs	05/04/2023	05/04/2023	-
	Manage Volunteers	-	6 hrs	07/04/2023	07/04/2023	-
	Manage Secretary	-	6 hrs	10/04/2023	10/04/2023	-
	Manage Fund Details	-	6 hrs	11/04/2023	11/04/2023	-
	Manage Project Reports	-	12 hrs	17/04/2023	17/04/2023	-
	Manage Camp Reports	-	12 hrs	19/04/2023	19/04/2023	-
	Enrolment List View	-	6 hrs	24/04/2023	24/04/2023	-
	Reports View	-	6 hrs	25/04/2023	25/04/2023	-
	Attendance View	-	6 hrs	26/04/2023	26/04/2023	-

	Manage Work Dairy	-	10 hrs	28/04/2023	28/04/2023	-
	Feedback View	-	4 hrs	29/04/2023	29/04/2023	-
	Messaging	-	6 hrs	30/04/2023	30/04/2023	-

2.5 User Stories

This portal have 5 modules Admin, University Coordinator ,Program Officer, Secretary, Volunteer and Public.

The Admin should be able to manage profile, manage events and news, authentication of university coordinators, manage university coordinators, Manage Fund Details, enrolment list view, reports view, feedback view, suggestion view, messaging. The University Coordinator should be able to manage profile ,authentication of program officer, manage program officer, Manage Fund Details, enrolment list view, reports view, feedback view, suggestion view, messaging.

The Program Officer should be able to manage profile, authentication of volunteers, manage volunteers, manage secretary, Manage Fund Details, manage work dairy, manage project, manage camps, attendance view, enrolment list view, reports view, feedback view, suggestion view, messaging. The Secretary should be able to manage project and manage program camps. the volunteer should be able to manage work dairy and manage extra reports and the public should be able to add feedback and add suggestion.

FEASIBILITY STUDY

3. FEASIBILITY STUDY

An analysis of the ability to complete a project successfully, taking into account legal, economic, technological, scheduling, and other factors is considered a feasibility study. Rather than just diving into a project and hoping for the best, feasibility study allows project managers to investigate the possible negative and positive outcomes of a project before investing too much money and time.

3.1 Economic Feasibility

The economic analysis is done to determine the benefits and savings that are expected from the candidate system and compare them with costs. Thus, coming to a conclusion on whether the system is economically feasible or not. This system is cost effective as well as time effective, thereby making it economically feasible. This study presents tangible and intangible benefits from the project by comparing the developments and operational costs. The technique of cost benefit analysis is often used as a basis for assessing economic feasibility.

3.2 Technical Feasibility

The technical requirements for the system are economic and it does not use additional software. This application is developed using MERN Stack, whose development kit are easily available and free of cost, thus making our system technically feasible.

3.3 Operational Feasibility

This analysis involves how it will work when it is installed and the assessment of political and managerial environment in which it is implemented. The new proposed system is very much useful to the users and there for it will accept broad audience.

3.4 Behavioral Feasibility

This analysis involves how it will work when it is installed and the assessment of the political and managerial environment in which it is implemented. People are inherently resistant to change and computers have been known to facilitate change. The new proposed system is very much useful to the users and therefore it will accept a broad audience.

3.5 Software Feasibility

Even though this application is developed in a very high software environment, it is also supported by many other environments with minimal changes. The system is fully feasible to be executed on any kind of operating systems and browsers.

3.6 Hardware Feasibility

Software can be developed with the existing resources. But the existing resources may or may not be used to produce hardware. If no hardware is newly bought for a project, then software is said to achieve hardware feasibility. The system is hardware-wise feasible because it needs absolutely no new hardware.

SOFTWARE ENGINEERING PARADIGM

4. SOFTWARE ENGINEERING PARADIGM

The software engineering paradigm which is also referred to as a software process model or Software Development Life Cycle (SDLC) model is the development strategy that encompasses the process, methods and tools. SDLC describes the period of time that starts with the software system being conceptualized.

4.1 Agile Model

Agile SDLC model is a combination of iterative and incremental process models with focus on process adaptability and customer satisfaction by rapid delivery of working software product. Agile Methods break the product into small incremental builds. These builds are provided in iterations. Each iteration typically lasts from about one to three weeks. At the end of the iteration, a working product is displayed to the customer and important stakeholders.

In Agile, the tasks are divided to time boxes (small time frames) to deliver specific features for a release. Iterative approach is taken and working software build is delivered after each iteration. Each build is incremental in terms of features; the final build holds all the features required by the customer.

4.2 Scrum

Scrum is an agile framework for managing knowledge work, with an emphasis on software development. It is designed for teams of three to nine members, who break their work into actions that can be completed within time boxed iterations, called "sprints", no longer than one month and most commonly two weeks, then track progress and re-plan in 15-minute stand-up meetings, called daily scrums.

Scrum is an iterative and incremental framework for managing product development. It defines "a flexible, holistic product development strategy where a development team works as a unit to reach a common goal", challenges assumptions of the "traditional, sequential approach to product development, and enables teams to selforganize by encouraging physical co-location or close online collaboration of all team members, as well as daily face-to-face communication among all team members and disciplines involved.

Scrum is a framework that helps teams work together. Much like a rugby team (where it gets its name) training for the big game, scrum encourages teams to learn through experiences, self-organize while working on a problem, and reflect on their wins and losses to continuously improve.

While the scrum is talking about is most frequently used by software development teams, its principles and lessons can be applied to all kinds of teamwork. This is one of the reasons scrum is so popular. Often thought of as an agile project management framework, scrum describes a set of meetings, tools, and roles that work in concert to help teams structure and manage their work.

Scrum is the most common agile framework, and the one most people start with. Agile practices on the other hand, are techniques applied during phases of the software development lifecycle. Planning poker for example, is a collaborative estimation practice designed to encourage team members to share their understanding of what done means. The process is quite fun, and has proven to help foster teamwork and better estimates. Continuous integration (also known as ci) is a common agile engineering practice where code changes are integrated into the main branch frequently. An automated build verifies changes, leading to a reduction in integration debt and a continually shippable main branch. These practices, like all agile practices, carry the agile label, because they are consistent with the principles in the agile manifesto.

In the project management, scrum, sometimes written scrum or scrum, is a framework for developing, delivering, and sustaining products in a complex environment, with an initial emphasis on software development, although it has been used in other fields including research, sales, marketing and advanced technologies. It is designed for teams of ten or fewer members, who break their work into goals that can be completed within time-boxed iterations, called sprints, no longer than one month and most commonly two weeks. The scrum team assess progress in time-boxed daily meetings of 15 minutes or less, called daily scrums (a form of stand-up meeting). At the end of the sprint, the team holds two further meetings: the sprint review which demonstrates the work done to stakeholders to elicit feedback, and sprint retrospective which enables the team to reflect and improve.

A key principle of scrum is the dual recognition that customers will change their minds about what they want or need and that there will be unpredictable challenges-for which a predictive or planned approach is not suited. As such, scrum adopts an evidence based empirical approach accepting that the problem cannot be fully understood or defined up front, and instead focusing on how to maximize the team's ability to deliver quickly, to respond to emerging requirements, and to adapt to evolving technologies and changes in market conditions. Many of the terms used in scrum (e.g., scrum master) are typically written with leading capitals (e.g., scrum master) or as conjoint words written in camel case (e.g., scrum master). To maintain an encyclopedic tone, however, this article uses normal sentence case for these terms-unless they are recognized marks. This is occasionally seen written in all -capitals, as scrum. The word is not an acronym, so this is not correct; however, it likely arose due to an early paper by ken schwaber which capitalized scrum in its title. While the trademark on the term scrum itself has been allowed to lapse, so that it is deemed as owned by the wider community rather than an individual, the leading capital is retained-except when used with other words.

SYSTEM REQUIREMENT SPECIFICATION

5. SYSTEM REQUIREMENT SPECIFICATION

5.1 Software Requirements

One of the most difficult tasks is selecting software, once the system requirement is find out then we have to determine whether a particular software package fits for those system requirements. This section summarizes the application requirement.

Operating System	:	Windows 7 or above
Front End	:	Html, CSS, JavaScript
Back End	:	Node JS, Express JS
IDE	:	Visual Studio
Database	:	Mongo DB

5.2 Hardware Requirements

The selection of hardware is very important in the existence and proper working of any of the software. When selecting hardware, the size and capacity requirements are also important. The hardware must suit all application developments.

Processor	:	Intel core i3 or above
RAM	:	8GB
HDD	:	1 TB

SYSTEM DESIGN

6. SYSTEM DESIGN

System design is the first in the development phase for many engineered products or systems. It may define the process of applying various techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realisation.

6.1 MongoDB

Database design is the process of producing a detailed data model of a database. This logical data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design in a data definition language, which can then be used to create a database. The term database design can be used to describe many different parts of the design of an overall database system.

Non-relational model databases, also known as NoSQL databases, are a type of database management system that diverge from the traditional relational model. Instead of relying on tables with predefined schemas and fixed relationships, NoSQL databases use flexible and dynamic data models, such as document-based, key-value, graph, or column-family.

6.2 Collections

In MongoDB, a collection is a grouping of MongoDB documents. It is the equivalent of a table in relational databases. Collections exist within databases and can store multiple documents in a structured format. Each document within a collection can have a unique structure, meaning they don't have to follow a rigid schema like in traditional relational databases.

Project Collection

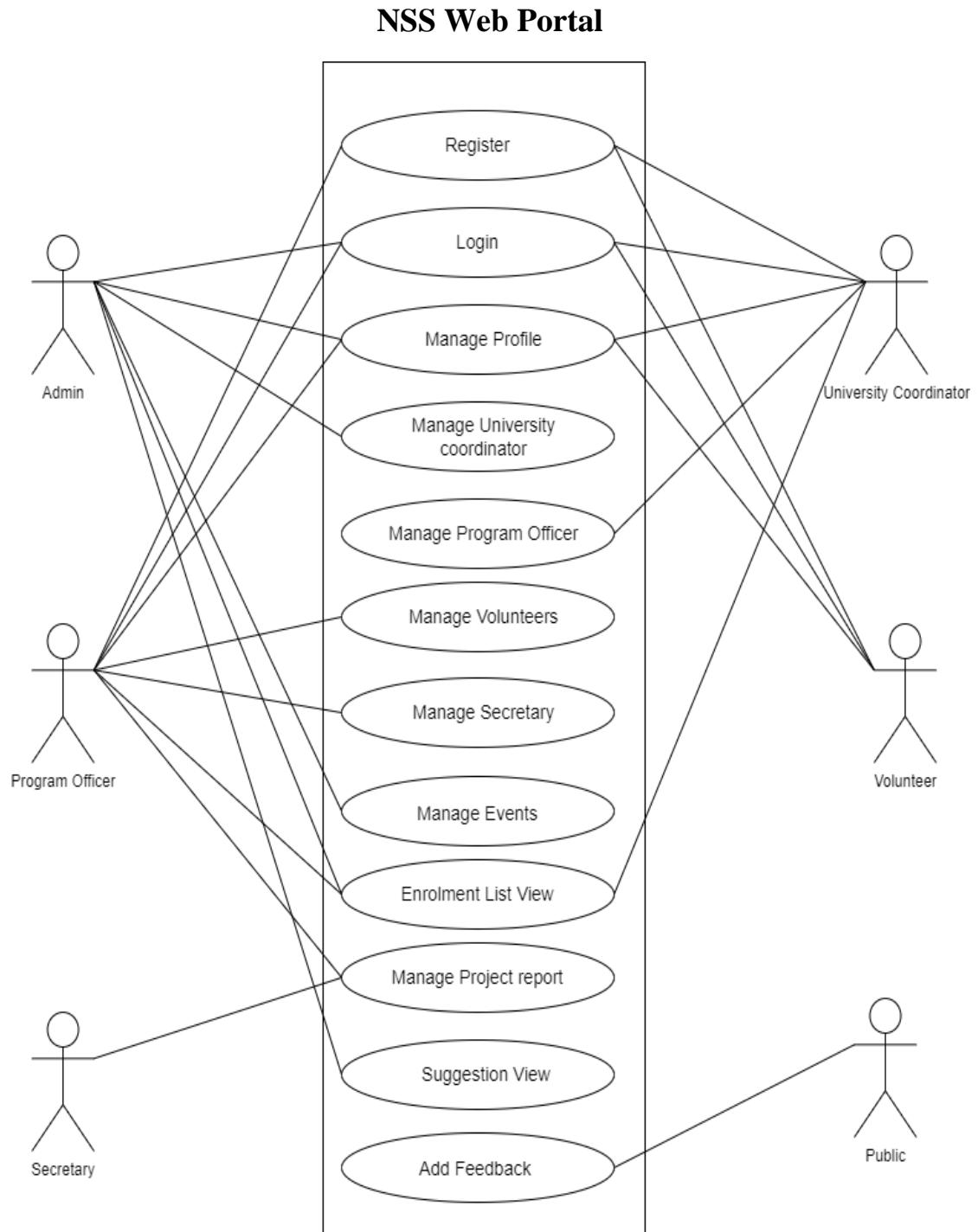
- admin_account
- admin_index_event
- admin_index_news
- admin_message
- feedback
- login
- old_register
- po_account
- po_camp_creation
- po_camp_report
- po_message
- po_project_creation
- po_project_report
- po_register
- po_workdairy
- secretary_camp
- secretary_project
- suggestion
- unicod_account
- unicod_message
- unicod_register
- volunteer_extra
- volunteer_register
- volunteer_workdairy

6.3 UML Design

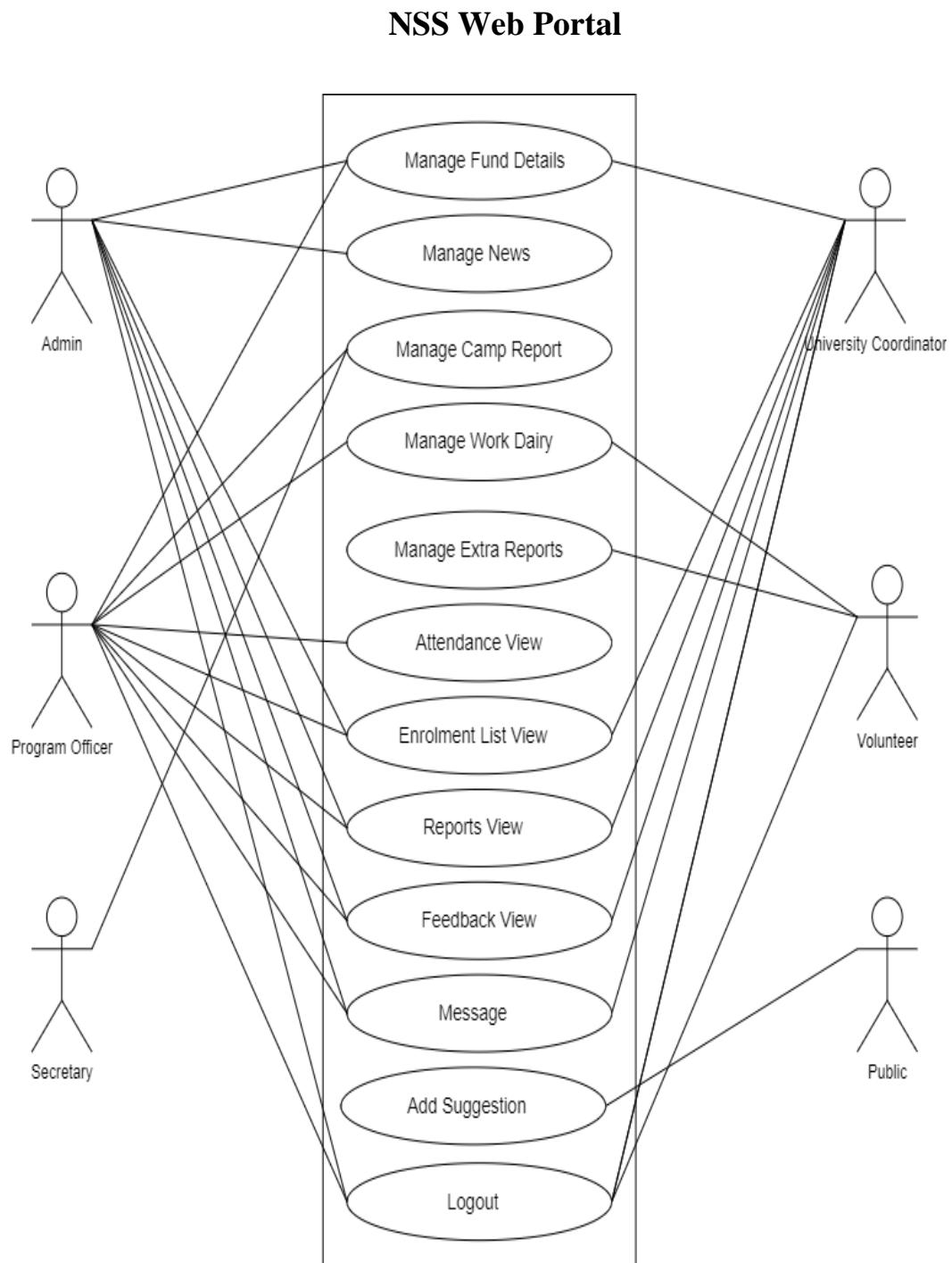
The Unified Modelling Language (UML) is indeed a standardized language used for specifying, visualizing, constructing, and documenting software systems, as well as for business modelling and other non-software systems. It encompasses a collection of best engineering practices that have been proven successful in modelling large and complex systems. UML provides a set of graphical notations that allow software developers and other stakeholders to express and communicate the design of software projects effectively. By using UML, project teams can visualize and explore potential designs, communicate design decisions, and validate the architectural design of the software system. UML diagrams serve as a means to represent various aspects of the system being developed. These diagrams can be used to depict the structure of the system, its behaviour , interactions between components, and the overall flow of activities. The graphical nature of UML diagrams makes them intuitive and easier to understand for both technical and non-technical stakeholders involved in the software development process. UML provides a standardized and widely accepted notation, which promotes consistency and clarity in design documentation. This allows for better collaboration among team members and facilitates the understanding and maintenance of software systems over time. The use of UML in software development can enhance communication, facilitate design exploration, and provide a solid foundation for developing and documenting complex software systems

6.4 Use Case Diagram

1)



2)



6.5 Scenario

Admin (State coordinator)

- Login.
- Manage Profile
- Manage Events
- Manage News
- Authentication of University Coordinators
- Manage University Coordinators
- Manage Fund Details
- Enrolment List View
- Reports View
- Feedback View
- Suggestion View
- Messaging

University coordinator

- Registration
- Login.
- Manage Profile
- Authentication of Program Officer
- Manage Program Officer
- Manage Fund Details
- Enrolment List View
- Reports View
- Feedback View
- Messaging

Public

- Add Feedback
 - Add Suggestion
-

Program Officer

- Registration
- Login.
- Manage Profile
- Authentication of Volunteers
- Manage Volunteers
- Manage Secretary
- Manage Fund Details
- Manage Project Reports
- Manage Camp Reports
- Enrolment List View
- Reports View
- Attendance View
- Manage Work Diary
- Feedback View
- Messaging

Secretary

- Login
- Manage Project Reports
- Manage Camp Reports
- Messaging

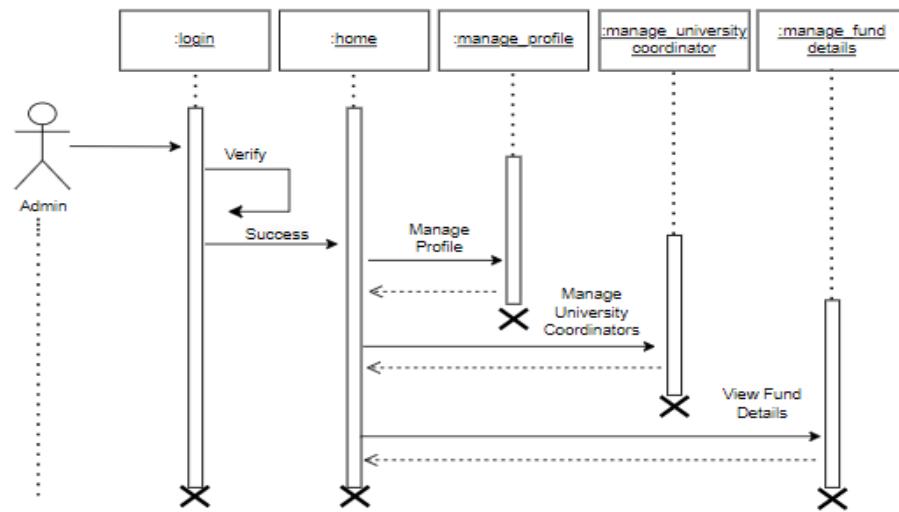
Volunteers

- Registration
- Login
- Manage Profile
- Manage Work Diary
- Manage Extra Reports

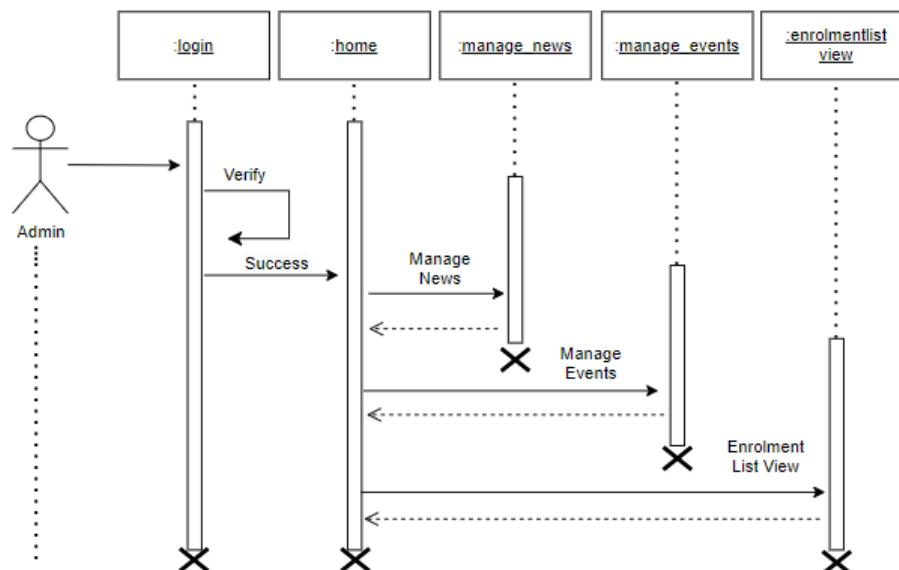
6.6 Sequential Diagram

Admin (State coordinator)

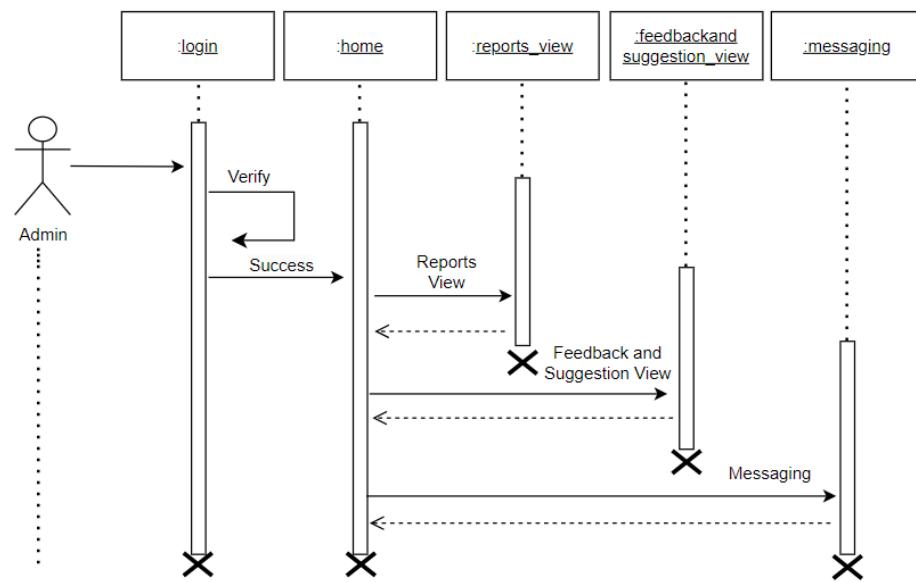
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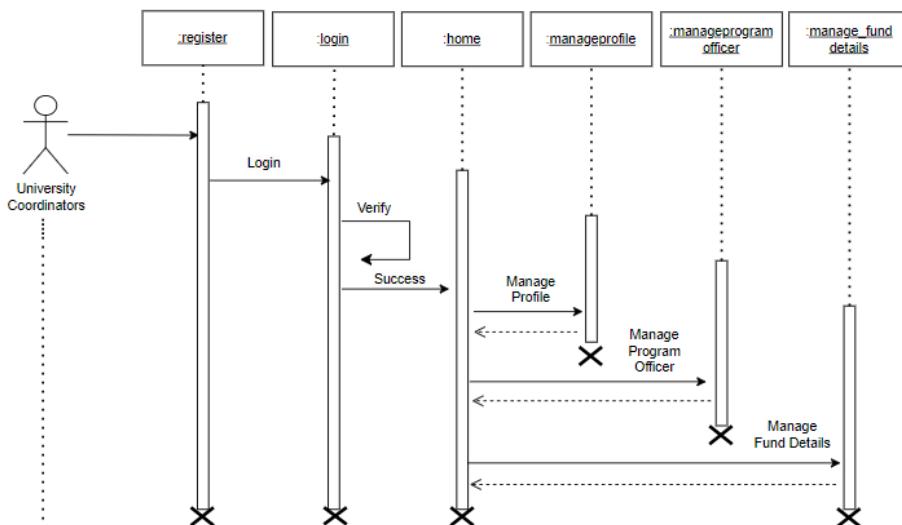


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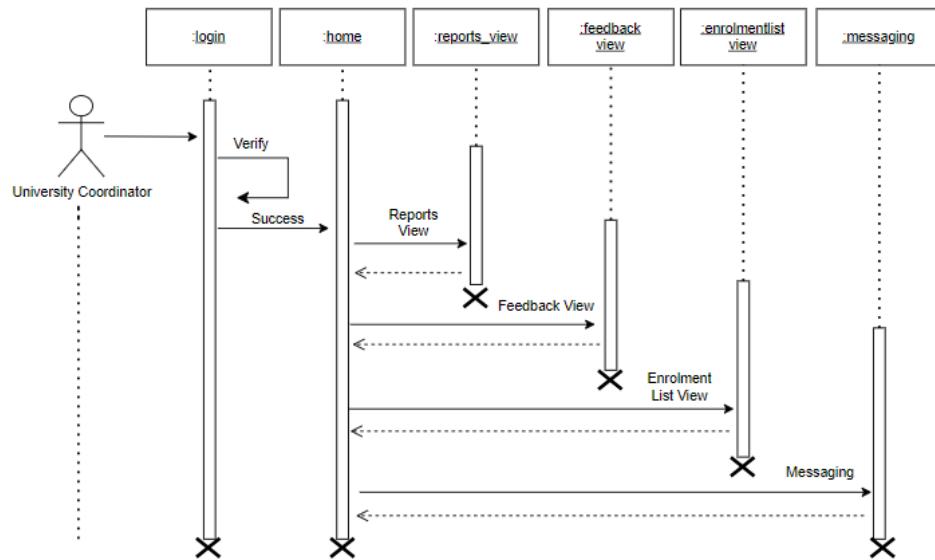


University coordinator

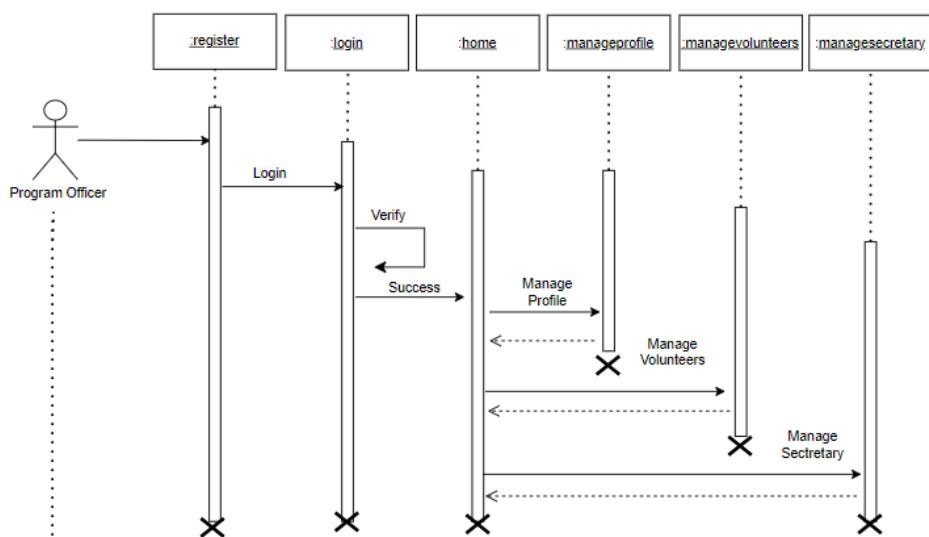
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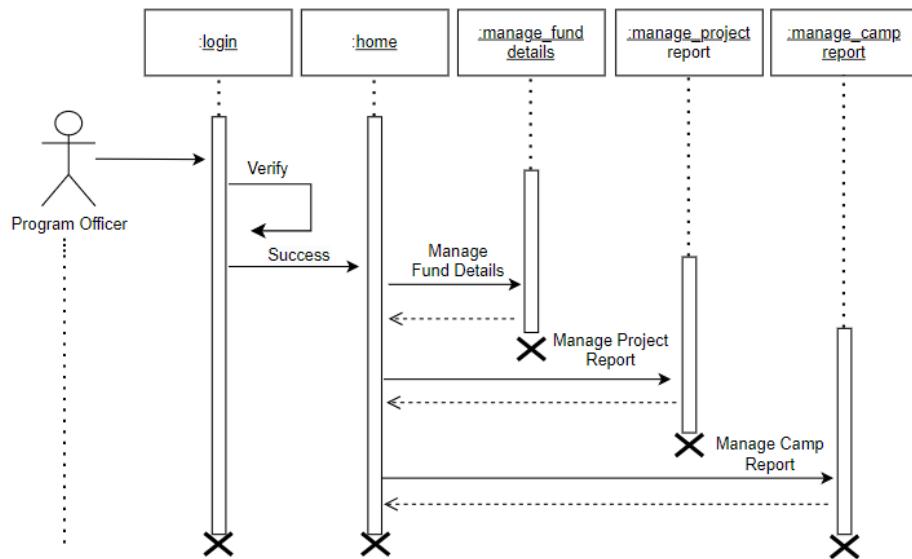
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**Program Officer**

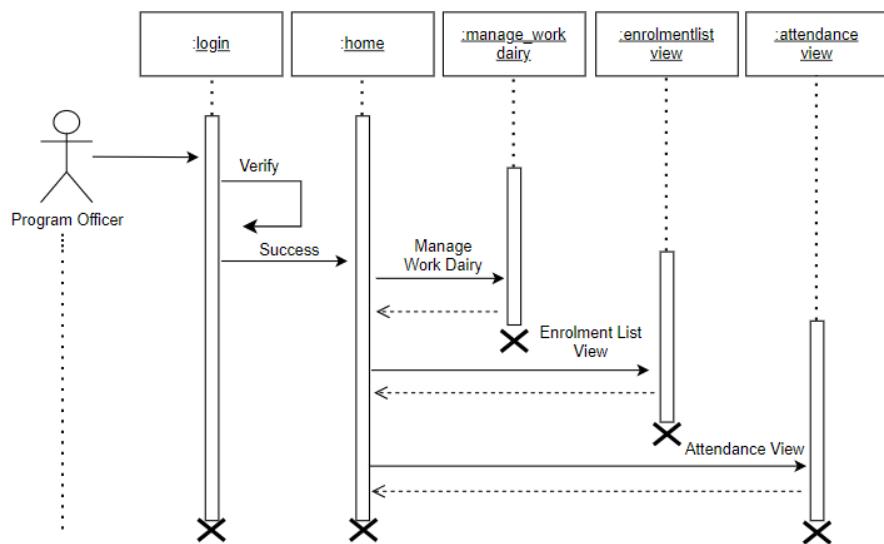
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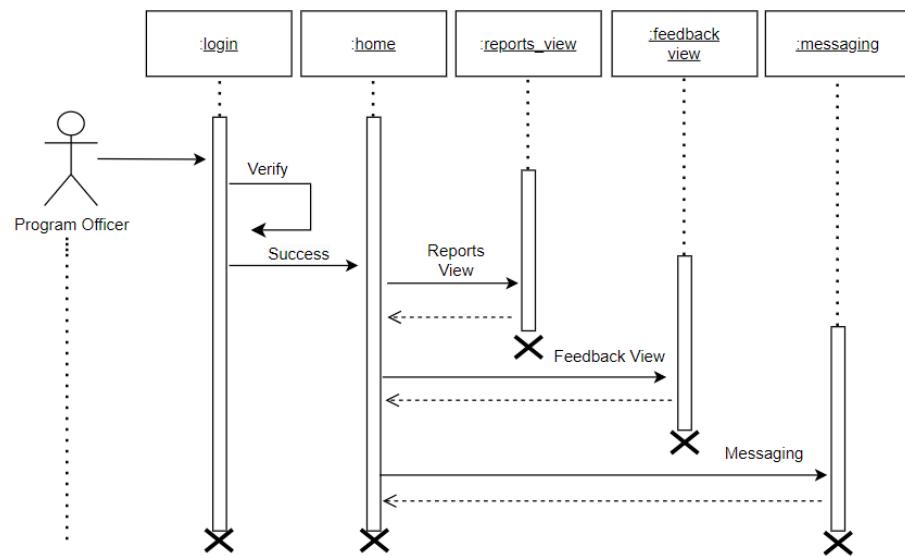
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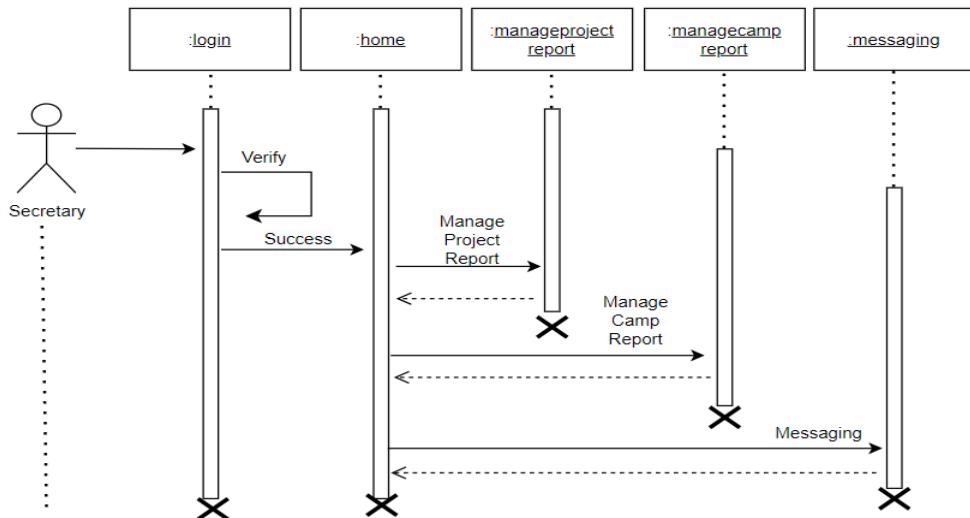
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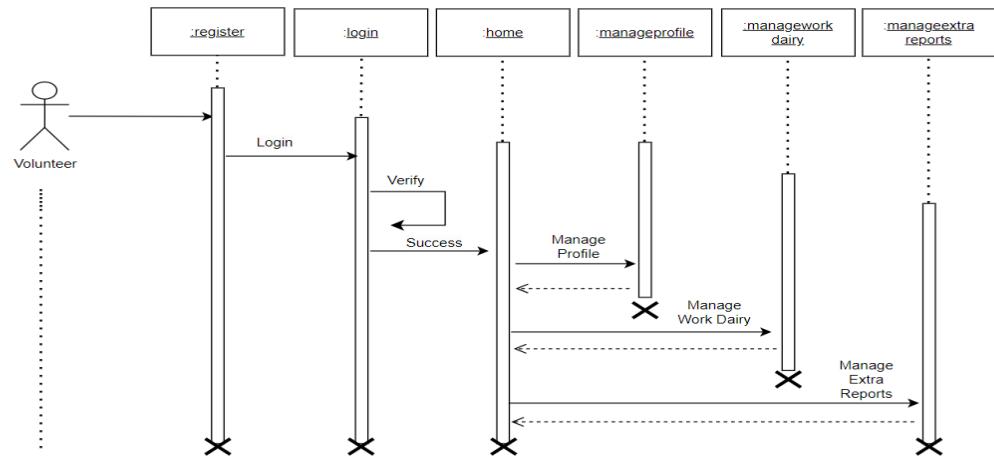
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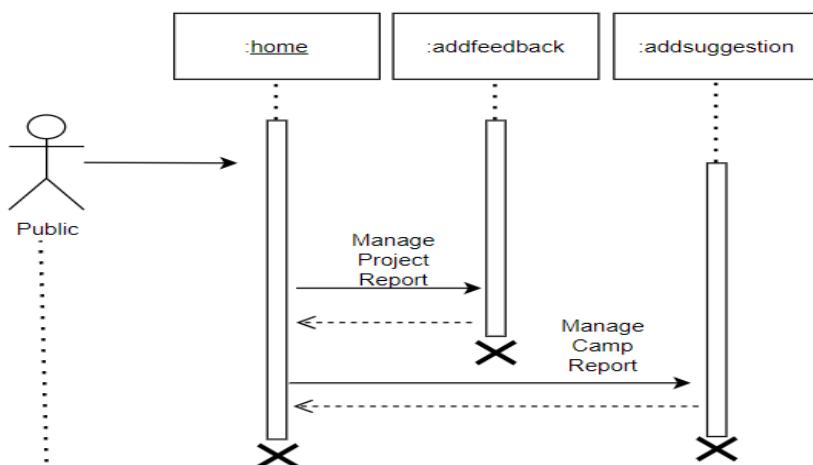
Secretary



Volunteers



Public



SYSTEM DEVELOPMENT

7. SYSTEM DEVELOPMENT

System development is a series of operations to manipulate data to produce output from a computer system. The principal activities performed during the development phase can be divided into two major related sequences.

- External system development
- Internal system development

The major external system activities are:

- Implementation
- Planning
- Equipment acquisition
- Installation

7.1 Coding

The purpose of code is to facilitate the identification and retrieval of items of information. A code is an ordered collection of symbols designed to provide unique identification of an entity or an attribute. Code also shows interrelationship among different items. Codes are used to identify, access, sort, matching records. The code ensures that only one value of code with a single meaning is applied to give an entity or attribute as described in various ways.

Node JS

Node.js is an open-source, cross-platform JavaScript runtime environment that enables developers to build scalable and high-performance applications. It is built on top of the V8 JavaScript engine used by Google Chrome and provides an event-driven, non-blocking I/O model that makes it well-suited for real-time web applications. Node.js enables developers to write server-side applications using JavaScript, which is a popular and widely-used programming language on the web. It has a vast ecosystem of third-party packages and libraries that can be easily installed using the Node Package Manager (NPM). Node.js applications can be run on various platforms such as Windows, Mac, and Linux.

Express JS

Express.js is a minimal and flexible Node.js web application framework that provides a set of robust features for building web and mobile applications. It is one of the most popular and widely-used frameworks for Node.js, and is known for its simplicity and ease of use. Express.js provides a set of features for developing serverside web applications, including routing, middleware support, template engines, and much more. It also provides an easy-to-use API for interacting with databases such as MongoDB and MySQL, and supports a variety of templating engines, such as Pug, Handlebars, and EJS..

Mongo DB

MongoDB is a popular document-oriented NoSQL database system that allows developers to store and manage large amounts of data in a flexible and scalable way. It is an open-source database that uses JSON-like documents with optional schemas, which makes it easy to work with and suitable for a variety of use cases. One of the key benefits of MongoDB is its ability to scale horizontally. This means that developers can add new servers to their database cluster as the amount of data or traffic increases, which allows the database to handle more requests and ensures that it can continue to perform well even as the application grows.

SYSTEM TESTING AND IMPLEMENTATION

8. SYSTEM TESTING AND IMPLEMENTATION

Testing is vital to the success of the system. It makes a logical assumption that if all the parts of the system are correct, the goal will be successfully achieved in this project. It is the stage of implementation, which ensures that the system works accurately and effectively before the live operation commences. It is a confirmation that all are correct and an opportunity to show users that the system must be tested and show that the system will operate successfully and produce expected results under expected conditions. Software testing is a crucial element of software quality assurance and represents the unlimited review of specification, design and coding. Testing represents an interesting anomaly for the software. During the earlier definition and development phase, it was attempted to build the software from an abstract concept to implement.

Testing is a set of activities that can be planned in advance and conducted. Systematically, this is aimed at ensuring that the system works accurately and efficiently before live operations commences

8.1 Types Of Testing

Different types of testing are:

- Unit testing
- Black Box Testing

Unit testing

Unit testing is usually conducted as part of a combined code and unit test phase of the software lifecycle, although it is not uncommon for coding and unit testing to be conducted as two distinct phases. All modules were tested individually as soon as they were completed and were checked for their correct functionality. Unit testing deals with testing a unit as a whole. This would test the interaction of many functions but confine the test within one unit. This testing is carried out during the programming stage itself. In this testing step each Module is found to be working

satisfactorily as regard to the expected output from the module.

Black Box Testing

In black-box testing the structure of the program is not considered. Test cases are decided solely on the basis of the requirements or specifications of the program or module, and the internals of the module or the program are not considered for selection of test cases. In black-box testing, the tester only knows the inputs that can be given to the system and what output the system should give. This form of testing is also called functional or behavioural testing. The most obvious functional testing procedure is exhaustive testing. One criterion for generating test cases is to generate them randomly. There are no formal rules for designing test cases for functional testing.

SYSTEM MAINTENANCE

9. SYSTEM MAINTENANCE

Maintenance is making adaptation of the software for external changes (requirements changes or enhancements) and internal changes (fixing bugs). When changes are made during the maintenance phase all preceding steps of the model must be revisited.

There are three types of maintenance:

- Corrective (Fixing bugs/errors)
- Adaptive (Updates due to environment changes)
- Perfective (Enhancements, requirements changes)

Maintenance is an enigma of the system development. The definition of the software maintenance can be given describing four activities that are undertaken after the program is released for use.

The maintenance activity occurs since it is unreasonable to assume that software testing will uncover all in a large system. The second activity that contributes to the definition of maintenance occurs since rapid changes are encountered in every aspect of computing. The third activity involves recommendation for new capabilities, modification to the existing functions and general enhancements when the software is used. The fourth maintenance activity occurs when software is changed to improve future maintainability or reliability.

FUTURE ENHANCEMENT

10. FUTURE ENHANCEMENT

The NSS Web Portal is already a powerful platform that provides numerous features and modules for managing various NSS activities. However, there are several areas where the portal can be enhanced to further improve its functionality and usability. Some possible future enhancements could include. Developing a mobile app for the NSS Web Portal can make it more accessible to users who are always on the go. The app can provide a simplified version of the portal, with features such as student registration, activity reporting, and attendance tracking. The app can also send notifications and alerts to users regarding upcoming events and activities. Integrating the NSS Web Portal with popular social media platforms such as Facebook, Twitter, and Instagram can help promote the National Service Scheme and increase engagement with students.

This integration can allow users to share their experiences and achievements on social media, which can encourage others to participate in the program. Incorporating artificial intelligence (AI) technology into the NSS Web Portal can help automate various processes and improve the overall efficiency of the platform. AI can be used to analyse data, identify patterns, and make predictions, which can provide valuable insights to authorities and help them make informed decisions . The chat bot's capabilities to handle a broader range of tasks. Adding multilingual support to the NSS Web Portal can make it accessible to a wider audience, especially those who are more comfortable in their native language. This can help promote the National Service Scheme in different regions and communities and encourage more students to participate in NSS activities.

CONCLUSION

11. CONCLUSION

The National Service Scheme (NSS) Web Portal is a dedicated platform designed to facilitate the management and coordination of various NSS activities at the state level. It is an initiative taken by the government to digitize the entire process of NSS, making it more accessible and efficient for the users. The portal is equipped with various features and modules, such as student registration, activity reporting, program management, attendance tracking, and volunteer management, that simplify the process of NSS management and help promote the spirit of community service among the youth of the nation.

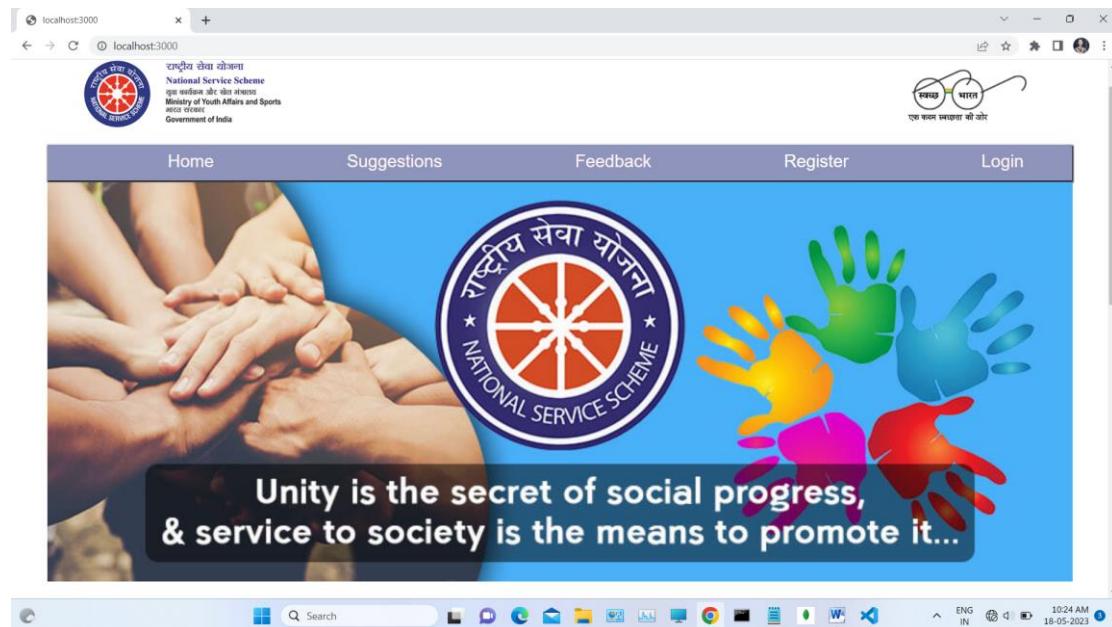
Moreover, the NSS Web Portal is scalable and customizable, allowing authorities to tailor it to their specific needs and requirements. It is a powerful tool that enhances transparency and accountability and provides valuable insights into the effectiveness of various initiatives.

Overall, the NSS Web Portal is an excellent initiative that leverages the power of technology to promote the culture of volunteerism and community service among the youth of the nation. It is a valuable tool that streamlines the operations of the National Service Scheme, enhances transparency and accountability, and provides valuable insights into the impact of various initiatives

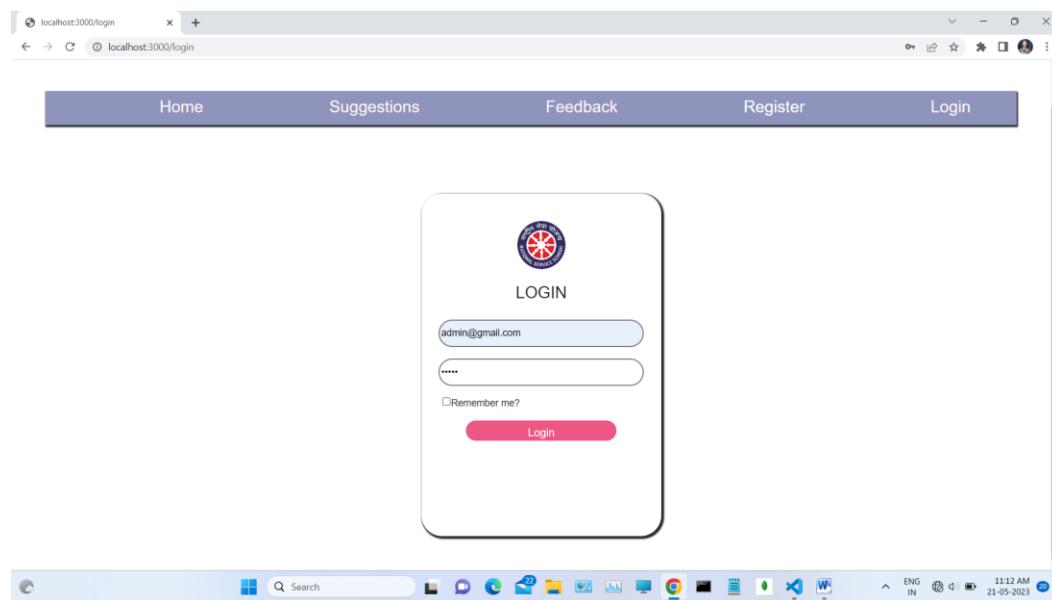
APPENDIX

12. APPENDIX

Home Page



Login



University Coordinator Registration Form


**UNIVERSITY COORDINATOR
REGISTRATION**

University details

University Name	Date
CLSAT	Kerala
University Address	Owner
University Road, South Kalamassery, Kottayam	Kochi
Pincode	Contact Number
682002	944256226
Establish Year	
2021	

Bank Details

Bank Name	A/C Number
State Bank of India	331130120120
IFSC Code	SBIN0021185
Branch Name	Kochi

Login details

username	Password
nubhalal@gmail.com	nubhalal
2 Step Verification Code	123456789

Personal Details

Name	Gender
Hilal Hilal	Male
Date of Birth	Contact Number
10-05-2000	9888991225
WhatsApp Number	Religion
9888991225	Muslim
Country	Blood Group
India	B+
Height	Weight
5'2	52
District	Taluk
Calicut	Kozhikode
Village	Pincode
Kumikkattor	673008
Name of Parent / Guardian	Parent's Contact Number
Hilal	9899912792
Permanent Address	Contact Address
Bonillary thattar house	Bonillary thattar house
View Map WhatsApp: +91 9899912792	
View Map WhatsApp: +91 9899912792	

Languages Known

English Hindi Malayalam Others

Area of interest

Tech	Hobbies
	Travelling

Prior Experience

4	Cultural talent
	communication

Are you interested in camps?

State National International

Submit



Program Officer Registration Form

**PROGRAM OFFICER
REGISTRATION**

Institution details

University <input type="text" value="CUSAT"/>	Institute Name <input type="text" value="Cochini Science & Technology"/>
Institute Address <input type="text" value="University Road, South Edavannur, Kollam"/>	District <input type="text" value="Kochi"/>
Pincode <input type="text" value="682022"/>	Contact Number <input type="text" value="9246001465"/>
Event Year <input type="text" value="2022"/>	

Bank Details

Bank Name <input type="text" value="State Bank of India"/>	A/c Number <input type="text" value="1111222233445566778899"/>
IFSC Code <input type="text" value="SBIN0000543"/>	Branch Name <input type="text" value="Kochi"/>

Login details

username <input type="text" value="abhiand@gmail.com"/>	Password <input type="text" value="abhiand"/>
2 step Verification Code <input type="text" value="8987654321"/>	

Personal Details

Name <input type="text" value="Abhiand"/>	Gender <input type="text" value="Female"/>
Date of Birth <input type="text" value="05-06-2000"/>	Contact Number <input type="text" value="7907961129"/>
WhatsApp Number <input type="text" value="7907961129"/>	Religion <input type="text" value="Hindu"/>
Community <input type="text" value="Hindu"/>	Blood Group <input type="text" value="A+"/>
Height <input type="text" value="5'6"/>	Weight <input type="text" value="60"/>
District <input type="text" value="Calicut"/>	Taluk <input type="text" value="Kothikode"/>
Village <input type="text" value="Panig"/>	Pincode <input type="text" value="679005"/>
Name of Father / Guardian <input type="text" value="Vijayan"/>	Father's Contact Number <input type="text" value="7555006028"/>
Permanent Address <input type="text" value="Abhiand house"/>	Contact Address <input type="text" value="Abhiand house"/>

username: abhiand_1_4777@pho
password: WhatsApp_1_NutsAndGems

Language Known
 English Hindi Malayalam Others

Area of Interest

 Hobbies

Prior Experience

 Cultural talents

Are you interested in camps
 State National International



Volunteer Registration Form

 VOLUNTEER
REGISTRATION

Institution details

Institute Name	Unit
Engineering Semester	Course
Year of enrollment in NSS	University Registration Number

Bank Details

Bank Name	Acct Number
IFSC Code	Branch Name

Login details

username	Password
----------	----------

Personal Details

Name	Gender
Date of Birth	Contact Number
WhatsApp Number	Religion
Community	Blood Group
Height	Weight
District	Taluk
Village	Pincode
Name of Parent / Guardian	Parent's Contact Number
Permanent Address:	Contact Address:

Languages Known:
 English Hindi Malayalam Others

Area of Interest:
 Creativity Hobbies
 Video Making

Prior Experience:
 D Cultural talents
 Video making

Are you interested in camps?
 State National International

Submit



Latest Events and News View

The screenshot shows a web browser window with two tabs: 'localhost:3000' and 'localhost:3000/admin/admin_in...'. The main content area features a banner with the text '& service to society is the means to promote it...'. Below the banner is the National Service Scheme logo (a red circle with three stylized figures) and the text 'Welcome to National Service Scheme'. To the right, there are two sections: 'Latest Events' (listing '2023-05-06 PRD - Calicut') and 'Latest News' (listing '2023-05-18 NSS Selection - NSS Selection has been conducted on 25/05/2023').

Add Suggestions

The screenshot shows a web browser window with the URL 'localhost:3000/suggestion'. The page has a header with links for 'Home', 'Suggestions', 'Feedback', 'Register', and 'Login'. The main content is a form titled 'SUGGESTION' with fields for 'Name' (Fathima Insha), 'Email' (insha@gmail.com), and 'Description' (Wand a National Camp). A 'Submit' button is at the bottom. The status bar at the bottom of the screen shows '32°C Mostly sunny' and the date '21-05-2023'.

Add Feedback

The screenshot shows a web browser window with the URL `localhost:3000/feedback`. The page title is "FEEDBACK". It features a logo at the top center. Below the logo, there are four input fields: "Name" (Ladheedha), "University" (KTU), "College" (AWH ENGINEERING COLLEGE), and "Description" (Good Activity). At the bottom of the form is a blue "Submit" button. The browser's address bar also shows "cusat address - Google Search". The system tray at the bottom right indicates it's 11:29 AM on 21-05-2023.

Authentication of University Coordinator

The screenshot shows a web browser window with multiple tabs open. The main content is a dashboard titled "STATE COORDINATOR". On the left, there is a sidebar with links: "Manage Profile", "Approval", "Accounts", "Enrolment List", "Blocking", "Reports", "Home Page", and "Messaging". The main area shows a table with one row:

	Name	University Name
1	Hilu Hilal	CUSAT

A blue "more" button is located to the right of the table. The dashboard has a purple header with the college logo. The browser's address bar shows "localhost:3000/admin/approval_unicod". The system tray at the bottom right indicates it's 11:01 AM on 18-05-2023.

Add Fund Details of University

STATE COORDINATOR

MUHAMMED HILAL M

Manage Profile

Approval

Accounts

Enrolment List

Blocking

Reports

Home Page

Messaging

Feedback

Suggestion

University Name: KTU

Fund type: Normal

Amount: 5000

Date: 20-05-2023

Submit

Fund Details View of University

STATE COORDINATOR

MUHAMMED HILAL M

Fund Type	Amount	Date
Normal	5000	2023-05-06
Normal	500	2023-05-02

Enrolment List of University Coordinators

Name	University Name	
Ladheeda	KTU	more
Hilu Hilal	CUSAT	more

Enrolment List of Program Officer

Name	Institute Name	
Sneha E Sunil	AWH ENGINEERING COLLEGE	more

Enrolment List of Volunteers

Name	University Name
Aleena	CALICUT UNIVERSITY
Adithya	PEE KAY CICS ARTS AND
Nisam	more

Block The University Coordinator

Name	University Name
Ladheedha	KTU
Arya K	CALICUT UNIVERSITY
Hilu Hilal	CUSAT

Unblock The University Coordinator

The screenshot shows a web browser window titled "STATE COORDINATOR". On the left, there is a sidebar with a profile picture and the name "MUHAMMED HILAL M". Below the name are several menu items: "Manage Profile", "Approval", "Accounts", "Enrolment List", "Blocking", "Reports", "Home Page", and "Messaging". The main content area displays two rows of university information. Each row contains a small profile picture, a name, a university name, and an "Unblock" button. The first row is for "Arya K" from "CALICUT UNIVERSITY". The second row is for "Hilu Hilal" from "CUSAT". The status bar at the bottom shows the date and time as 20-05-2023, 06:23 PM.

Name	University Name	Action
Arya K	CALICUT UNIVERSITY	Unblock
Hilu Hilal	CUSAT	Unblock

Project Report List View

The screenshot shows a web browser window titled "STATE COORDINATOR". On the left, there is a sidebar with a profile picture and the name "MUHAMMED HILAL M". Below the name are several menu items: "Manage Profile", "Approval", "Accounts", "Enrolment List", "Blocking", "Reports", "Home Page", and "Messaging". The main content area shows a list of projects. At the top, there are two dropdown menus: one for "KTU" and another for "AWH ENGINEERING COL". Below these are two rows of project details. Each row includes a "more" button. The first row is for "Blood Donation" in 2022, categorized as "Donation". The second row is for "PRD" in 2023, categorized as "PRD". The status bar at the bottom shows the date and time as 18-05-2023, 11:11 AM.

Project Name	Year	Category	Action
Blood Donation	2022	Donation	more
PRD	2023	PRD	more

Camp Report List View

The screenshot shows a web application interface for managing camp reports. The top navigation bar includes links for 'STATE COORDINATOR', 'Logout', and 'Camp Report List View'. The main content area displays a list of camps for 'MUHAMMED HILAL M'. The list includes columns for 'Camp Name' (7 Day Camp), 'Year' (2022), and 'Category' (7 DAY). A 'more' button is visible at the end of the list. On the left sidebar, there are links for 'Manage Profile', 'Approval', 'Accounts', 'Enrolment List', 'Blocking', 'Reports', 'Home Page', 'Messaging', and 'Feedback'. The system status bar at the bottom shows weather (34°C, mostly cloudy), system icons, and the date/time (18-05-2023, 11:20 AM).

Add Events

The screenshot shows a web application interface for adding events. The top navigation bar includes links for 'STATE COORDINATOR', 'Logout', and 'Add Event'. The main content area displays an 'ADD EVENTS' form with fields for 'Event Date' (21-05-2023), 'Event Name' (PRD), and 'Event Location' (Malappuram). Below the form, a table lists existing events with columns for 'Event Date', 'Event Name', and 'Event Location'. One event is listed: 2023-05-06, PRD, Calicut. A 'Delete' button is visible next to the event row. On the left sidebar, there are links for 'Manage Profile', 'Approval', 'Accounts', 'Enrolment List', 'Blocking', 'Reports', 'Home Page', 'Messaging', 'Feedback', and 'Suggestion'. The system status bar at the bottom shows weather (32°C, mostly sunny), system icons, and the date/time (21-05-2023, 11:30 AM).

Add News

Messaging to University Coordinator

Feedback View of State Coordinator

STATE COORDINATOR

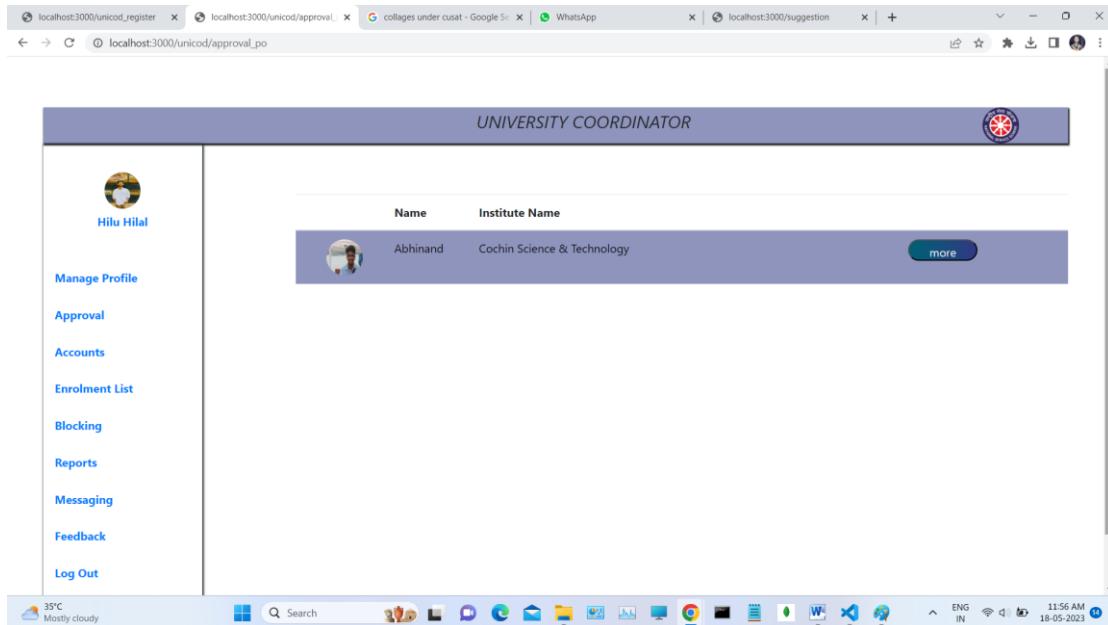
Name	University	Collage	Comments
Safwan K	KTU	AWH ENGINEERING COLLEGE	Good Activity
Ajikl	CALICUT UNIVERSITY	PEE KAY CICS ARTS AND SCIENCE COLLEGE	Fantastic Work

Suggestion View

STATE COORDINATOR

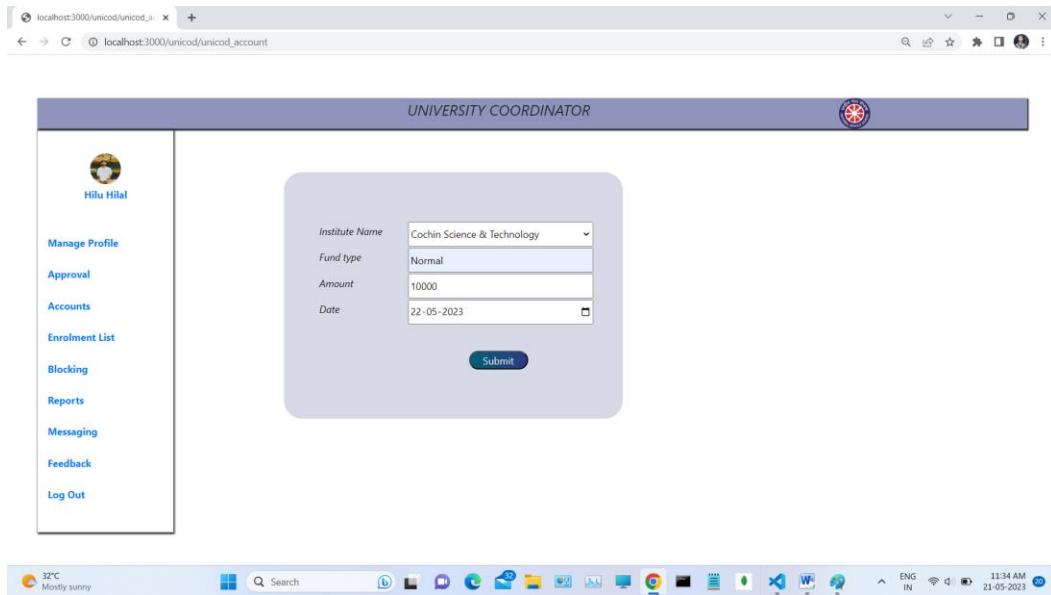
Name	Email	Suggestions
Fathima Insha	insha@gmail.com	Can we make a state level camp on this june

Authentication of Program Officer



The screenshot shows the 'UNIVERSITY COORDINATOR' dashboard. On the left sidebar, there are several menu items: 'Manage Profile', 'Approval', 'Accounts', 'Enrolment List', 'Blocking', 'Reports', 'Messaging', 'Feedback', and 'Log Out'. The main content area displays a table with two columns: 'Name' and 'Institute Name'. A single row is shown for 'Abhinand' from 'Cochin Science & Technology'. A 'more' button is located at the end of this row. The top of the screen shows multiple browser tabs and a taskbar with various icons.

Add Fund Details of Institutes



The screenshot shows the 'UNIVERSITY COORDINATOR' dashboard. The left sidebar includes the same set of menu items as the previous screenshot. The main content area contains a form for adding fund details. The form fields are: 'Institute Name' (dropdown menu showing 'Cochin Science & Technology'), 'Fund type' (dropdown menu showing 'Normal'), 'Amount' (text input field showing '10000'), and 'Date' (text input field showing '22-05-2023'). A 'Submit' button is located at the bottom of the form. The top of the screen shows multiple browser tabs and a taskbar with various icons.

Fund Details View of Institutes

The screenshot shows a web browser window with multiple tabs open. The main content area displays a table of fund transactions under the heading "UNIVERSITY COORDINATOR".

Fund Type	Amount	Date
Normal	50000	2021-05-10
Partial	35000	2022-05-20

The left sidebar contains navigation links: Manage Profile, Approval, Accounts, Enrolment List, Blocking, Reports, Messaging, Feedback, and Log Out. The user's profile picture is shown as "Ladheedha". The system status bar at the bottom shows "35°C Mostly cloudy" and the date/time "11:59 AM 18-05-2023".

Block the Program Officer

The screenshot shows a web browser window with multiple tabs open. The main content area displays a list of users under the heading "UNIVERSITY COORDINATOR".

Name	Institute Name
Sneha E Sunil	AWH ENGINEERING COLLEGE

The user "Sneha E Sunil" has a "Block" button next to their name. The left sidebar contains the same navigation links as the previous screenshot. The system status bar at the bottom shows "35°C Mostly cloudy" and the date/time "12:00 PM 18-05-2023".

Unblock the Program Officer

UNIVERSITY COORDINATOR

Name	Institute Name
Sneha E Sunil	AWH ENGINEERING COLLEGE

Unblock

- Ladheedha
- [Manage Profile](#)
- [Approval](#)
- [Accounts](#)
- [Enrolment List](#)
- [Blocking](#)
- [Reports](#)
- [Messaging](#)
- [Feedback](#)
- [Log Out](#)

Messaging to Program Officer

UNIVERSITY COORDINATOR

Message to all Program Officers

Abhinand

Meeting

Meeting Is Conducted on 22/05/2023

Send

- Hilu Hilal
- [Manage Profile](#)
- [Approval](#)
- [Accounts](#)
- [Enrolment List](#)
- [Blocking](#)
- [Reports](#)
- [Messaging](#)
- [Feedback](#)
- [Log Out](#)

Feedback View of University Coordinator

Name	Institute Name	Comments
Safwan K	AWH ENGINEERING COLLEGE	Good Activity

Authentication List of Volunteers

Name	Course	
Keerthana	MCA	more

Authentication of Volunteers

PROGRAM OFFICER



Institution details

Institute Name: Cochin Science & Technology	Unit: 301
Enrollment Sender: A	Course: MCA
Year of enrollment in NSS	University Registration Number: K66421MCA-2019

Bank Details

Bank Name: State Bank of India	ATM Number: 4157175
IFSC Code: SBIN0002195	Branch Name: Calicut

Login details

username: kavithaa@gmail.com	Password: kavithaa
---------------------------------	-----------------------

Personal Details

Name: Kavithaa	Gender: Female
Date of Birth: 2001-05-01	Contact Number
WhatsApp Number: 8899752517	Religion: Hindu
Community: Hindu	Blood Group: A+
Height: 160	Weight: 55
District: Calicut	Taluk: Kothikode
Village: Kannur	Pincode: 673119
Name of Parent / Guardian: Sanil	Parent's Contact Number
Permanent Address: Kavithaa house	Contact Address

Language Known

English Hindi Malaysian Others

Area of Interest

Techno	Hobbies
Listening music	

Prior Experience

0	Cultural talents
	Techno

Are you interested in camps?

State National International



Accept **Reject**



Add Expenses of Institute

Expense View of Institute

Fund Type	Amount	Date
Camp	10000	2023-05-17
Cleaning	5000	2023-05-31

Secretary Approval

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "po(po_secretary)" and is located at "localhost:3000/po(po_secretary)". The page has a header "PROGRAM OFFICER" and a profile picture for "Sneha E Sunil". On the left, there is a sidebar with various menu items: Manage Profile, Approval, Accounts, Enrolment List, Secretary Approval (which is highlighted in blue), Blocking, Reports, Attendance, and Work Diary. The main content area shows a table with three rows:

	Name	Course	Action
	Marjan P	undefined	<button>Submit</button>
	Ayisha	undefined	<button>Submit</button>
	Ranya	undefined	<button>Submit</button>

The status bar at the bottom shows "34°C Mostly cloudy" and the system date/time as "06:27 PM 20-05-2023".

Approved Secretary View

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "(1) WhatsApp" and is located at "localhost:3000/uniscod/approval...". The page has a header "PROGRAM OFFICER" and a profile picture for "Sneha E Sunil". On the left, there is a sidebar with various menu items: Manage Profile, Approval, Accounts, Enrolment List, Secretary Approval, Blocking, Reports, Attendance, Work Diary, and Project. The main content area shows a table with one row:

	Name	Course
	Hilal	BCA

The status bar at the bottom shows "35°C Mostly cloudy" and the system date/time as "12:16 PM 18-05-2023".

Block the Volunteers

PROGRAM OFFICER

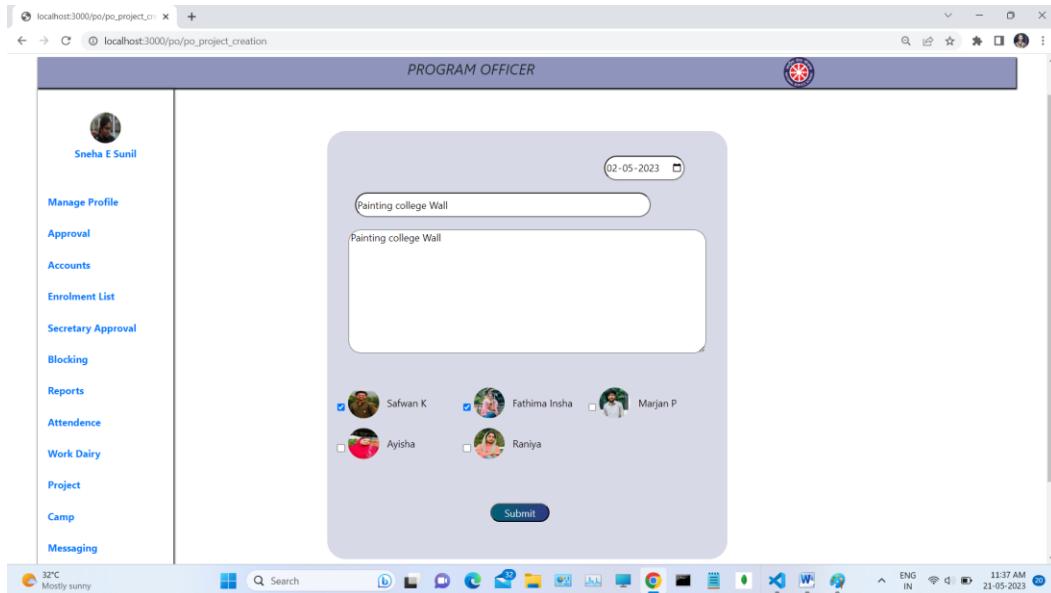
Name	Course	Action
Marjan P	MCA	Block
Ayisha	MCA	Block
Raniya	MCA	Block

Unblock the Volunteers

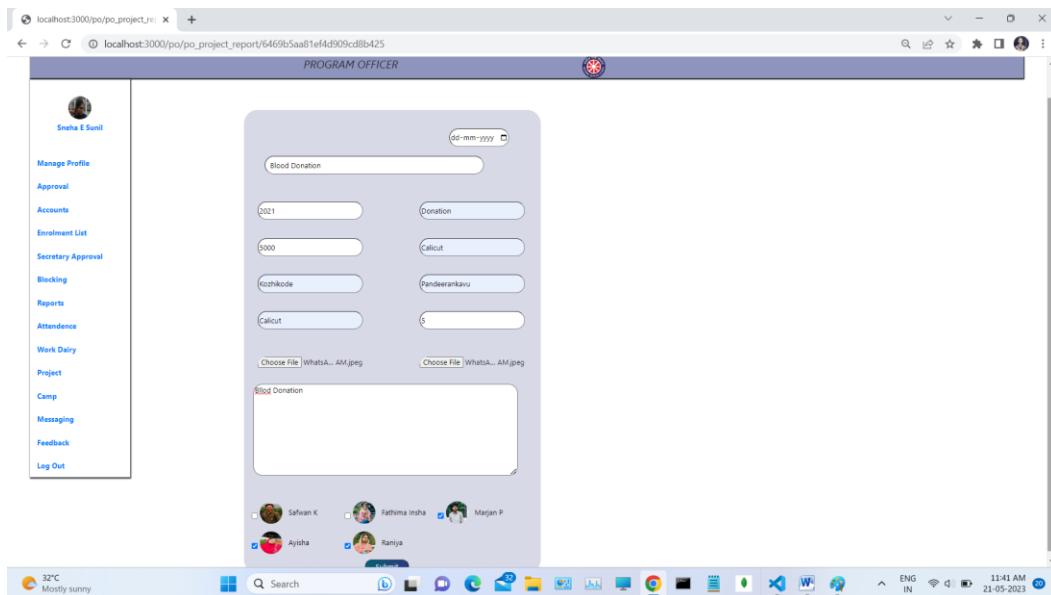
PROGRAM OFFICER

Name	Course	Action
Safwan K	MCA	Unblock
Fathima Insha	MCA	Unblock

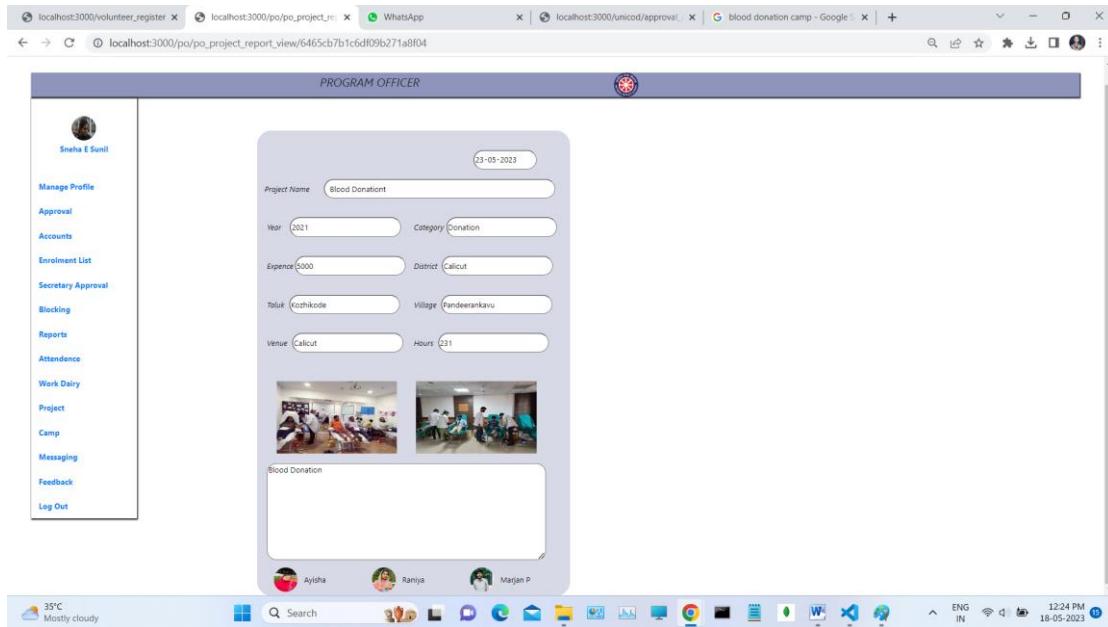
Project Creation



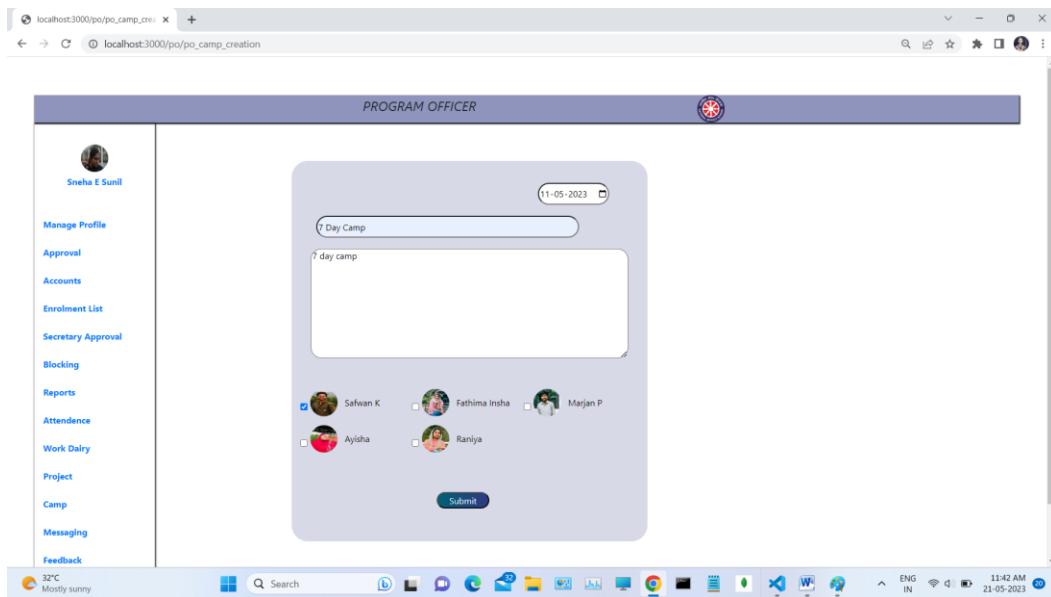
Add Project Report



Project Report View



Camp Creation



Add Camp Report

Sathya K Saad

- [Manage Profile](#)
- [Approval](#)
- [Assess](#)
- [Enrollment List](#)
- [Secretary Approval](#)
- [Blocking](#)
- [Reports](#)
- [Attendance](#)
- [Work Diary](#)
- [Project](#)
- [Camp](#)
- [Messaging](#)
- [Feedback](#)
- [Log Out](#)

7 Day Camp

01-05-2023 - 07-05-2023

Day 1

Choose File WhatmA_AM.jpg Choose File WhunA_AM.jpg

Cleaning the field

Day 2

Choose File WhatmA_AM.jpg Choose File WhunA_AM.jpg

Cleaning the field

Day 3

Choose File WhatmA_AM.jpg Choose File WhunA_AM.jpg

Cleaning the field

Day 4

Choose File WhatmA_AM.jpg Choose File WhunA_AM.jpg

Cleaning the field

Day 5

Choose File WhatmA_AM.jpg Choose File WhunA_AM.jpg

Cleaning the field

Day 6

Choose File WhatmA_AM.jpg Choose File WhunA_AM.jpg

Cleaning the field

Day 7

Choose File WhatmA_AM.jpg Choose File WhunA_AM.jpg

Cleaning the field

3°C Mostly cloudy Search 12:27 PM 18-05-2023

Camp Report View

The screenshot shows a web browser window displaying the 'Camp Report View' page from the NSS Web Portal. The URL in the address bar is localhost:3000/po/po_camp_report_view/6465bc851c6df09b271a8e45. The page includes a sidebar with user profile and various administrative links, and the main content area displays a camp report for a '7 Day Camp' from May 11 to May 18, 2023. The report is organized by day, showing photos and descriptions of activities like 'Cleaning The Field' and 'Orientation Class'. The bottom of the screen shows a Windows taskbar with various icons.

localhost:3000/po/po_camp_report_view/6465bc851c6df09b271a8e45

Silvia & Smita

Manage Profile

Approval

Answers

Feedback List

Secretary Approval

Billing

Reports

Attendance

Work Diary

Project

Camp

Messaging

Feedback

Log Out

Camp Name: 7 Day Camp Date: 11-05-2023

Year: 2022 Category: C-GY

Expense: ₹30000 Order: Color

Total: ₹30000 Village: Gurukulam

Venue: Gurukulam Starting Date: 11-05-2023

Day 1:

Cleaning The Field

Day 2:

Cleaning The Field

Day 3:

Orientation Class

Day 4:

Orientation Class

Day 5:

Field work

Day 6:

Field work

34°C Mostly cloudy Search ENG IN 12:30 PM 18-05-2023

Attendance View

The screenshot shows a web application window titled "PROGRAM OFFICER". On the left, there is a sidebar with a user profile picture and the name "Sneha E Sunil". Below the profile are several menu items: "Manage Profile", "Approval", "Accounts", "Enrolment List", "Secretary Approval", "Blocking", "Reports", "Attendance", "Work Dairy", "Project", and "Cann". A weather widget indicates "34°C Mostly cloudy". The main content area displays a table with student information:

Name	Course	Programs	Total Hrs
Marjan P	MCA	Blood Donation, PRD	15
Ayisha	MCA		0
Raniya	MCA	PRD	7

At the bottom of the screen, the taskbar shows various icons for system functions like search, file explorer, and network.

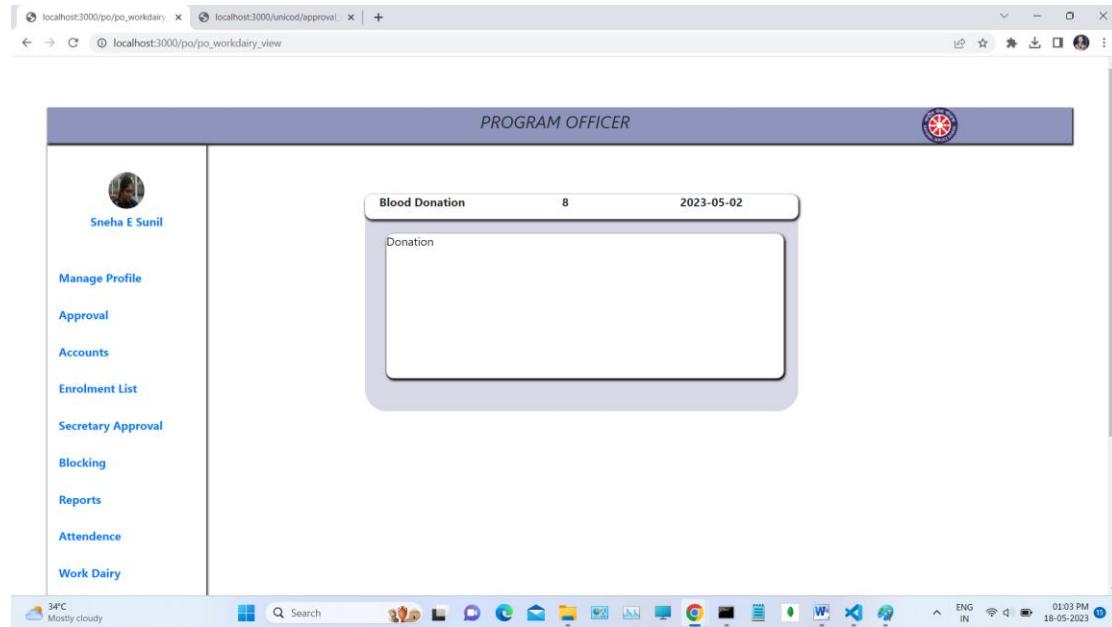
Add Work Diary Of Program Officer

The screenshot shows a web application window titled "PROGRAM OFFICER". On the left, there is a sidebar with a user profile picture and the name "Sneha E Sunil". Below the profile are several menu items: "Manage Profile", "Approval", "Accounts", "Enrolment List", "Secretary Approval", "Blocking", "Reports", "Attendance", and "Work Diary". A weather widget indicates "32°C Mostly sunny". The main content area displays a form for adding a work diary entry:

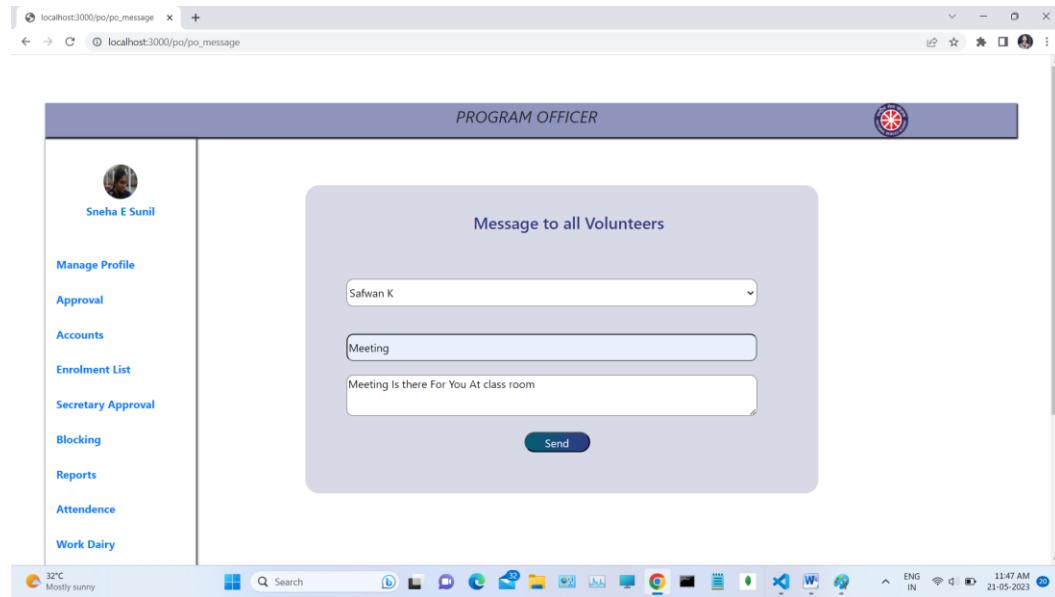
Project Name	PRD
Date	2023-05-25
Hours	7
Description	PRD Camp

At the bottom right of the form is a "Submit" button. At the bottom of the screen, the taskbar shows various icons for system functions like search, file explorer, and network.

Work Dairy View of Program Officer



Messaging to Volunteers



Feedback View of Program Officer

The screenshot shows a web browser window with two tabs open: 'localhost:3000/po/po_feedback' and 'localhost:3000/unicon/approval...'. The main content area is titled 'PROGRAM OFFICER' and features a sidebar with links such as 'Manage Profile', 'Approval', 'Accounts', 'Enrolment List', 'Secretary Approval', 'Blocking', 'Reports', 'Attendance', and 'Work Diary'. The main panel is titled 'Feedback' and displays a single row with 'Name' (Ladheeda) and 'Comments' (hgy). The status bar at the bottom shows system information like weather (34°C, Mostly cloudy), date (18-05-2023), and time (01:04 PM).

Secretary Add Project Report

The screenshot shows a web browser window with the URL 'localhost:3000/secretary/secretary'. The main content area is titled 'VOLUNTEER' and features a sidebar with links such as 'Manage Profile', 'Project Report', 'Camp Report', 'Work Diary', 'Extra Report', and 'Log Out'. The main panel is titled 'Project Report' and contains fields for 'Project Name' (Blood Donation) and 'Description' (Blood Donation). A 'Submit' button is located at the bottom right of the form. The status bar at the bottom shows system information like weather (32°C, Partly sunny), date (21-05-2023), and time (11:50 AM).

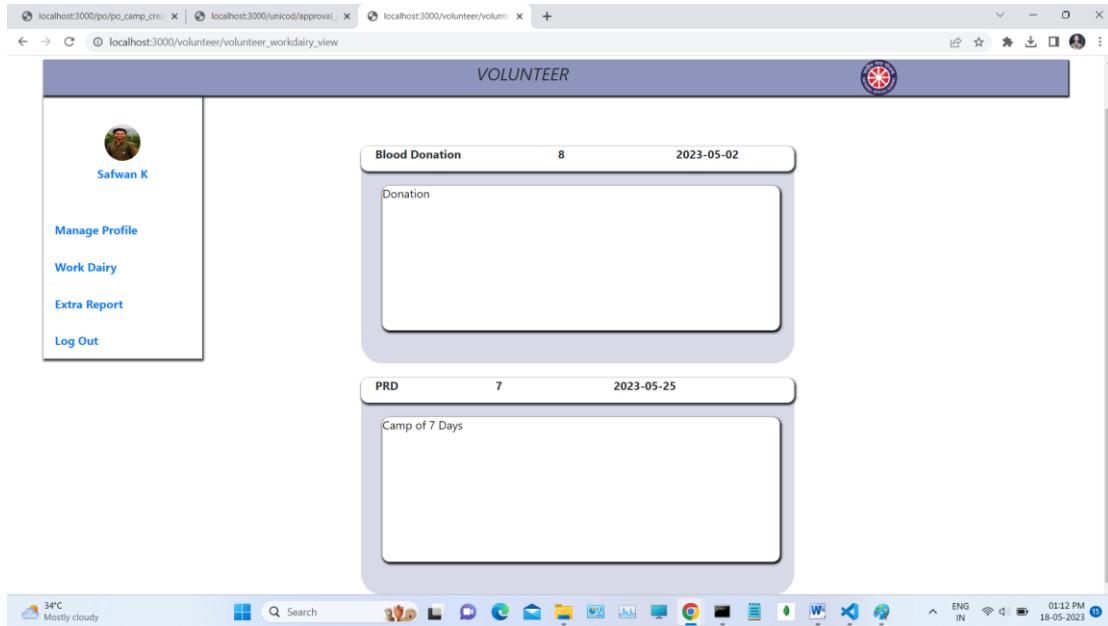
Secretary Add Camp Report

Screenshot of the Secretary Add Camp Report page. The page title is "VOLUNTEER". On the left sidebar, there is a profile picture of a woman and links for "Manage Profile", "Project Report", "Camp Report", "Work Diary", "Extra Report", and "Log Out". The main content area contains a form for a "7 Day Camp". The form has sections for "Day 1" through "Day 7", each with a "Description" field. The descriptions for most days are "Field Work", while for Day 4 and Day 5, it is "Orientation Class". A "Submit" button is located at the bottom right of the form.

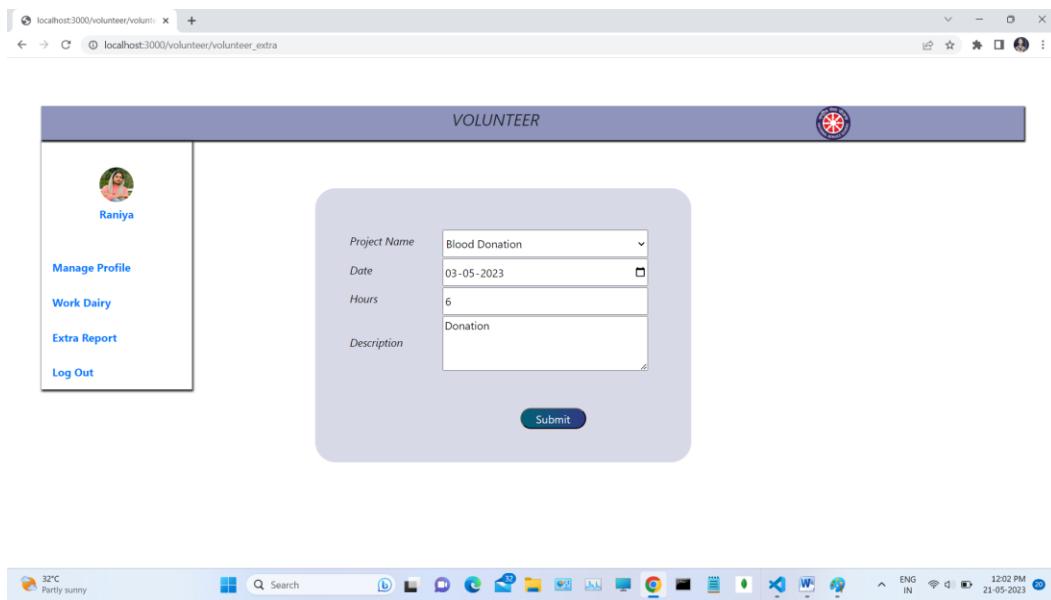
Add Work Diary of Volunteers

Screenshot of the Add Work Diary of Volunteers page. The page title is "VOLUNTEER". On the left sidebar, there is a profile picture of a woman named "Raniya" and links for "Manage Profile", "Work Diary", "Extra Report", and "Log Out". The main content area contains a form for a "PRD" project. The form includes fields for "Project Name" (set to "PRD"), "Date" (set to "2023-05-25"), "Hours" (set to "7"), and "Description" (set to "PRD Camp 7 Days"). A "Submit" button is located at the bottom right of the form.

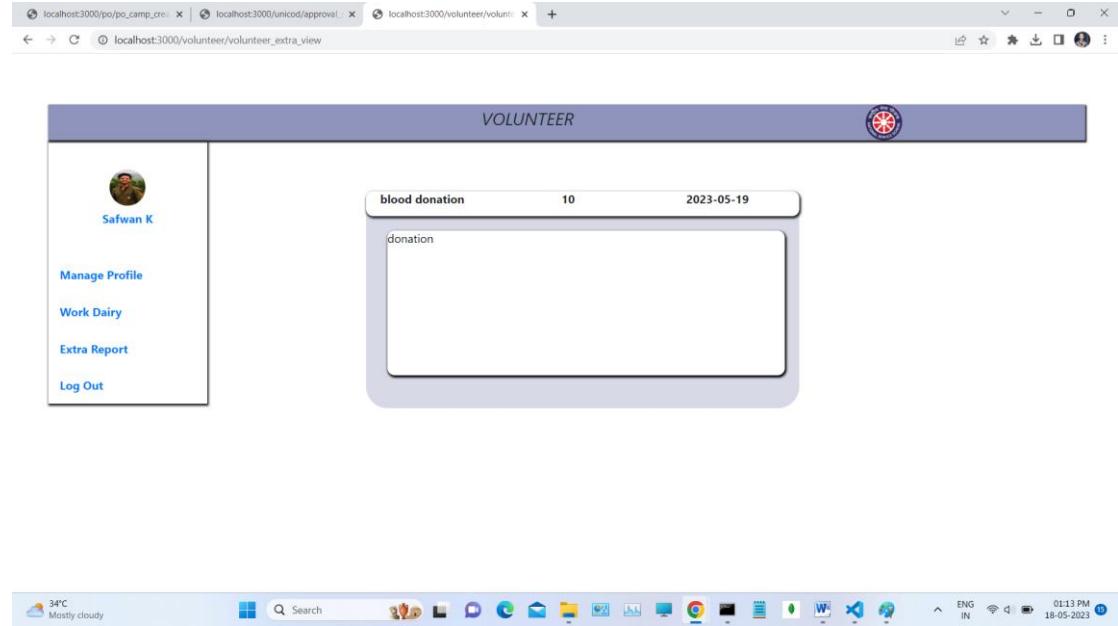
Work Dairy View of Volunteers



Add Extra Work Report



View Extra Work Reports



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13. BIBLIOGRAPHY

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Books

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- [2] Pro MERN Stack: Full Stack Web App Development with Mongo, Express, React, and Node" by Vasan Subramanian
- [3] Code complete: a practical handbook of software construction by Steve McConnell, Microsoft Press, 2nd Edition(2004).
- [4] Full Stack Development with JHipster: Build scalable and maintainable web applications using the MERN stack" by Deepu K Sasidharan and Sendil Kumar N
- [5] Full Stack JavaScript: Learn Backbone.js, Node.js, and MongoDB" by Azat Mardan