

Project report

On

National Service Scheme Portal

Submitted in partial fulfillment of the requirements for the
award of Degree

BACHELOR OF TECHNOLOGY

In

INFORMATION TECHNOLOGY

By

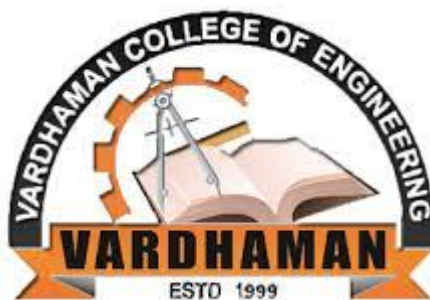
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Under the Guidance of

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DEPARTMENT OF INFORMATION TECHNOLOGY

VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

(Affiliated to JNTUH, Approved by AICTE and Accredited by NBA)

Shamshabad - 501 218, Hyderabad

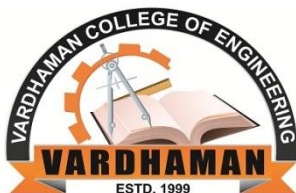
2014-2018

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CERTIFICATE

This is to certify that the project report entitled, “**National Service Scheme Portal**”, done by **Chandan M Kalyani (14881A1208)**, **Gopi Satya Sesha Rao (14881A1217)** and **V Vishnu Vardhan Reddy (14881A1258)**, Submitted to the department of Information Technology in partial fulfillment of the requirements for the Degree of **BACHELOR OF TECHNOLOGY** in **Information Technology** from **Jawaharlal Nehru Technological University Hyderabad**, during the year 2014-2018. It is certified that he/she has completed the project satisfactorily.

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Viva-Voce held on.....

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ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of the task would be put in complete without the mention of the people who made it possible, whose constant guidance and encouragement crown all the efforts with success.

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i LIST OF ABBREVIATIONS

- 1. HTML:** Hyper Text Markup Language is a markup language used to design static web pages.
- 2. CSS:** Style Sheets is the language for describing the presentation of Web pages, including colours, layout, and fonts.
- 3. MySql:** MySQL (Structured Query Language) Database is the database management system that delivers a flexible and cost effective database platform to build robust on demand business applications.
- 4. XAMPP:** XAMPP Server is a Windows web development environment. It allows you to create web applications with Apache2, PHP and a MySQL database.
- 5. PhpMyAdmin:** It is a free software tool written in PHP, intended to handle the administration of MySQL with the help of a Web browser.
- 6. PO:** PO stands for program officer, each college will have one PO for handling the NSS activities.

ii ABSTRACT

The aim of National Service Scheme is “Development of the Personality of Students through Community Service” where NSS Program Coordinator’s (PO’s) take as in-charge in college level to update the students work for every service done so far and send the data to the respective universities at the year ending in order to provide respective awards and certificates to the students as per their participation in the events. Though there is an official NSS website there is no feature where NSS PO’s can have interaction with higher level officials in a responsive website and provide all students details in order to keep track of active NSS members and to provide sufficient proofs of students working in the events. There is no proper guidance given to the students in event announcements for interaction. Though blood-camps are one of the events done frequently in NSS where victims are helped through Blood-Banks, Websites and APP’s, they fail in providing the required blood group to the emergency victims to save their life. Hence we want to develop a responsive website where each college will be given a profile with dynamic uploads option to update their students details along with the events done, gallery, awards and recognitions of the colleges providing along with announcements option and also providing College ranks in various levels all of State including with a special feature of Blood-group providence through NSS all over the state.

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Chapter - 1

INTRODUCTION

1.1 Motivation:

Being as part of National Service Scheme (NSS) from Vardhaman College of Engineering, we understood that there is a problem regarding communication, spreading notifications, consistent data of active members, awards and event gallery which leads to under world politics of award distribution in higher level.

1.2 Problem Statement:

Though there is an official NSS website there is no feature where NSS PO's can have interaction with higher level officials in a responsive website and provide all students details in order to keep track of active NSS members and to provide sufficient proofs of students working in the events. There is no proper guidance given to the students in event announcements for interaction. Though blood-camps are one of the events done frequently in NSS where victims are helped through Blood-Banks, Websites and APP's, we fail in providing the required blood group to the emergency victims to save their life. Few problems faced by NSS PO's, Students are:

- Lack of event details to the students and PC's of a particular college.
- Delay's in event and awards ceremony.
- No proper database student and faculty details.
- Under world politics in awards distribution.
- No proper glance regarding NSS and its rules that needs to be followed.
- Blood group donation fails.

1.3 Objectives of the Project:

The National Service Scheme Portal is developed as an attempt to provide a responsive website where each college will be given a profile with dynamic uploads option to update their student details along with the events done, gallery, awards and recognitions of the college providing along with announcements option all over the state including with a special feature of Blood-group providence through NSS all over the state. There is a separate GUI provided to the Admin so that he can manage all the activities. Following are the three main objectives of the proposed system:

- **Providing Valid Database:** Here a valid consistent database of active Students, Faculty, PO and College details along with Awards and Gallery will be maintained.

- **College Ranking:** Student users can be verified themselves as students within few seconds and get approved.
- **Admin Inspection:** Admin can inspect and college in order validate the performance of the college and their students along with proofs of event gallery provided in the particular college profile.
- **Blood Group:** We can provide required blood group to the victim over all India in in-time.

Chapter - 2

LITERATURE SURVEY

2.1 Existing System:

There is already an all India official website for National Service Scheme (NSS) which is maintained by National Youth and Sports Affair Ministry but which is a static website with just basic details about NSS events, gallery, award types, rules and regulations where there is no communication page to interact with NSS committee, maintain student and faculty, college details. Admin cannot inspect any of the college work and provide awards based on those performances of the colleges.

2.2 Proposed System:

We want to develop a responsive dynamic website where each college will be given a profile with dynamic uploads option to update their students details along with the events done, gallery, awards and recognitions of the colleges providing along with announcements option and also providing College ranks in various State levels (University level & Colleges level) including with a special feature of Blood-group providence through NSS over all India. Steps to follow the process are:

1. Provide your valid College Principal/PO Email-ID and phone number to the Admin.
2. In return Admin will send Automated Login ID and Password to the respective College Principal/PO Email-ID to get access to his profile account and later on the college can change its password.
3. Now, College PO can update the college profile page with events done, Award winners of the college, student/faculty details using dynamic upload option.
4. Based up on all the college pages uploading their profiles their performance will be awarded and ranking will be given to the college in State level (University level).
5. Admin has option to notify the upcoming events in all University and College level.

Chapter – 3

ANALYSIS

3.1 Software Requirement Specification:

3.1.1 User Requirements:

- College Principal/PO Email and Phone number to send Login and Password details.
- College PO's to update gallery, awards and student/faculty details.

3.1.2 Hardware Requirement:

- RAM - 1 GB
- Hard Disk - 500 GB

3.1.3 Software Requirements:

- Operating System - All operating systems
- Application Server - XAMPP Server
- Front End -HTML5, CSS3
- Scripts - JavaScript
- Server Side Script - PHP
- Database - MY SQL

Chapter – 4

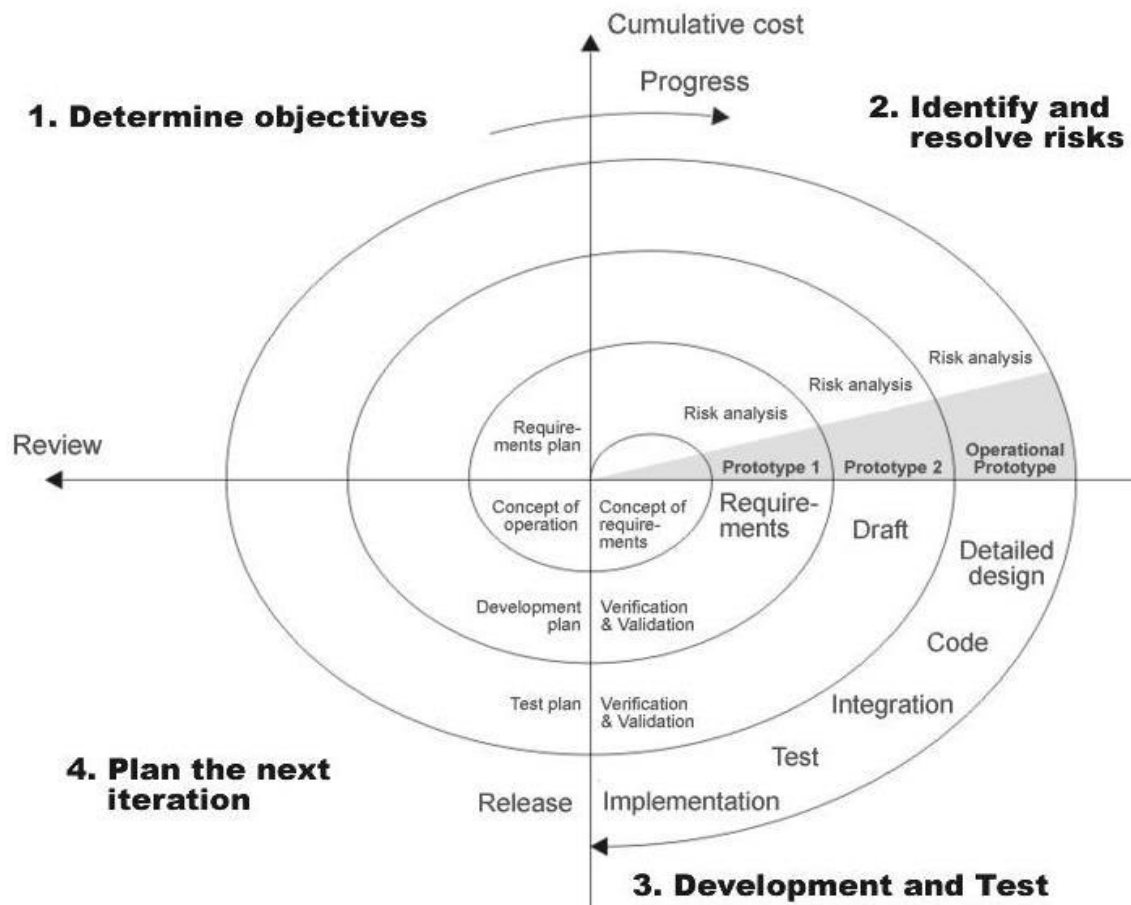
DESIGN

4.1 Introduction:

SDLC Methodologies:

- This document play a vital role in the development of life cycle (SDLC) as it describes the complete requirement of the system. It means for use by developers and will be the basic during testing phase. Any changes made to the requirements in the future will have to go through formal change approval process.
- As originally envisioned, the iterations were typically 6 months to 2 years long. Each phase starts with a design goal and ends with a client reviewing the progress thus far. Analysis and engineering efforts are applied at each phase of the project, with an eye toward the end goal of the project.

The following diagram shows how a spiral model acts like:



4.2 UML Diagrams:

Use Case Diagram:

The purpose of use case diagram that was finally designed for the National Service Scheme Portal can be seen in Figure 4.2.1, 4.2.2, and 4.2.3.

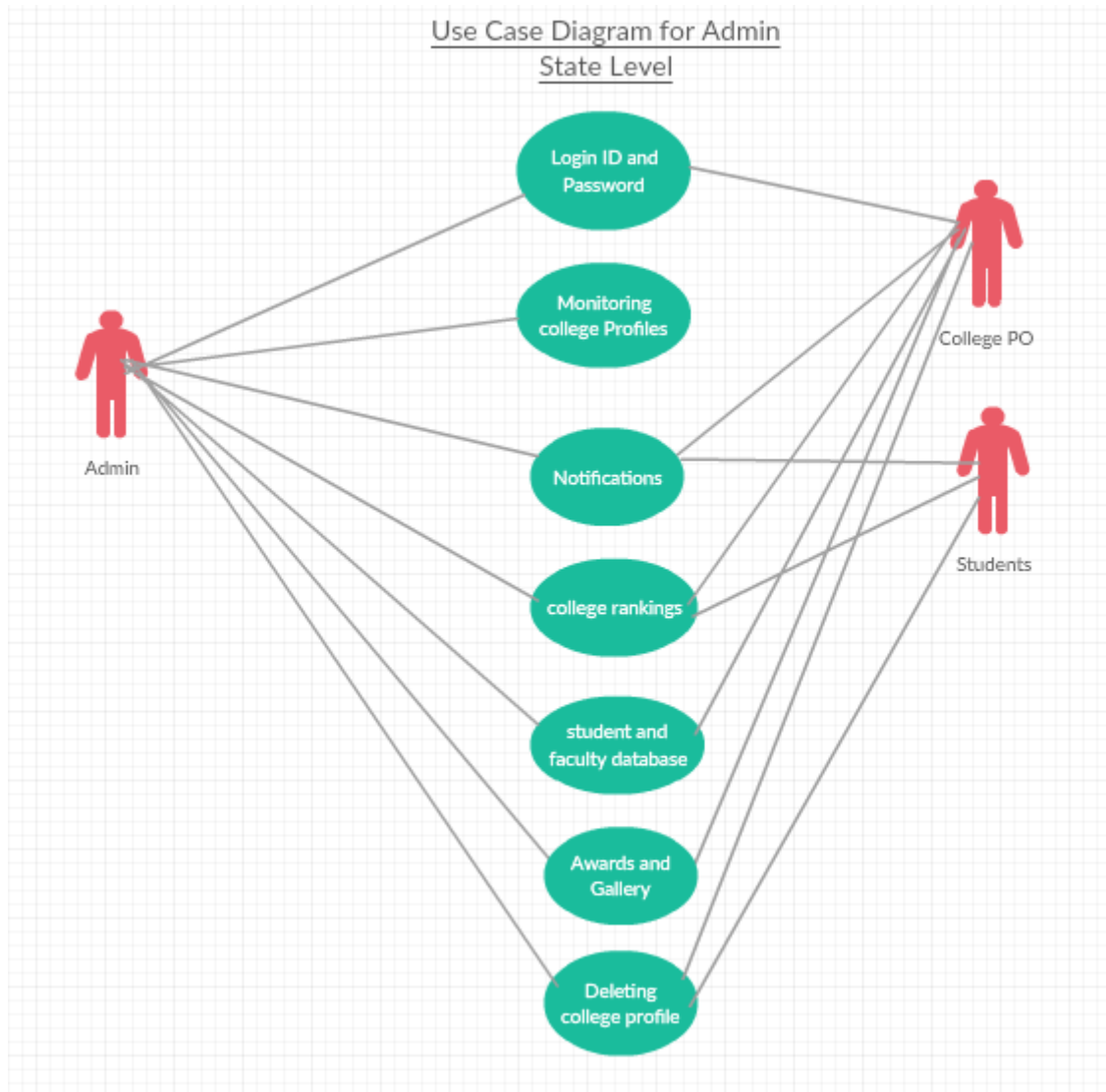


FIG: 4.2.1 Use Case Diagram for Admin.



FIG: 4.2.2 Use Case Diagram for Blood Group Victim.

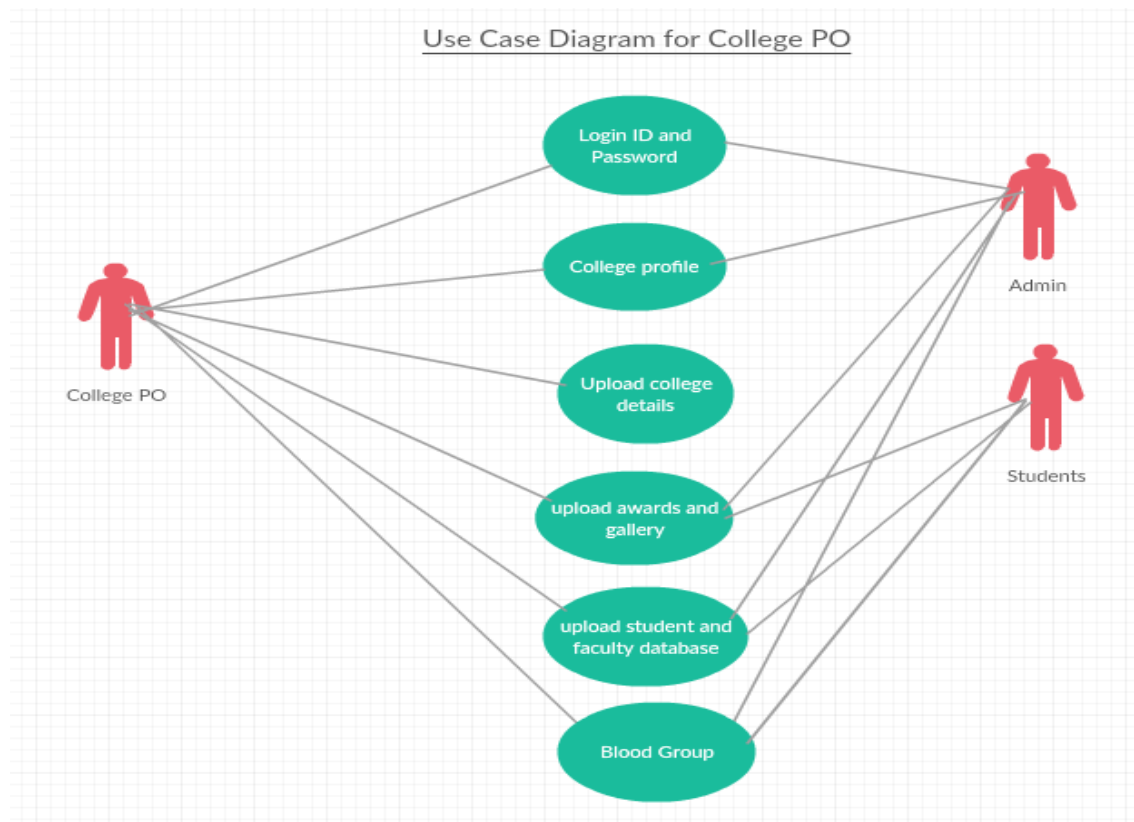


FIG: 4.2.3 Use Case Diagram for College PO.

Sequence Diagrams:

Sequence diagram and collaboration diagram are called INTERACTION DIAGRAMS. An interaction diagram shows an interaction, consisting of set of objects and their relationship including the messages that may be dispatched among them. A sequence diagram is an introduction that empathizes the time ordering of messages. Graphically a sequence diagram is a table that shows objects arranged along the X-axis and messages ordered in increasing time along the Y-axis.

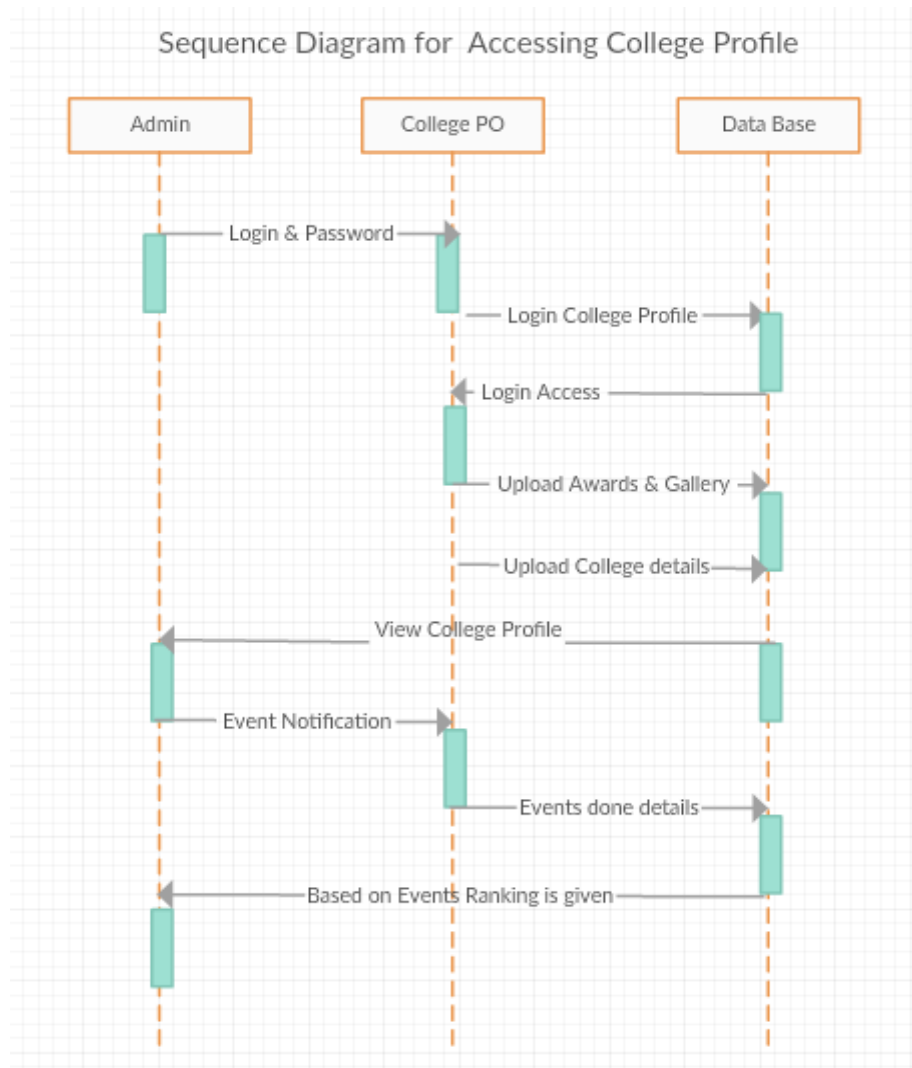


FIG: 4.2.4 Sequence Diagram for College PO.

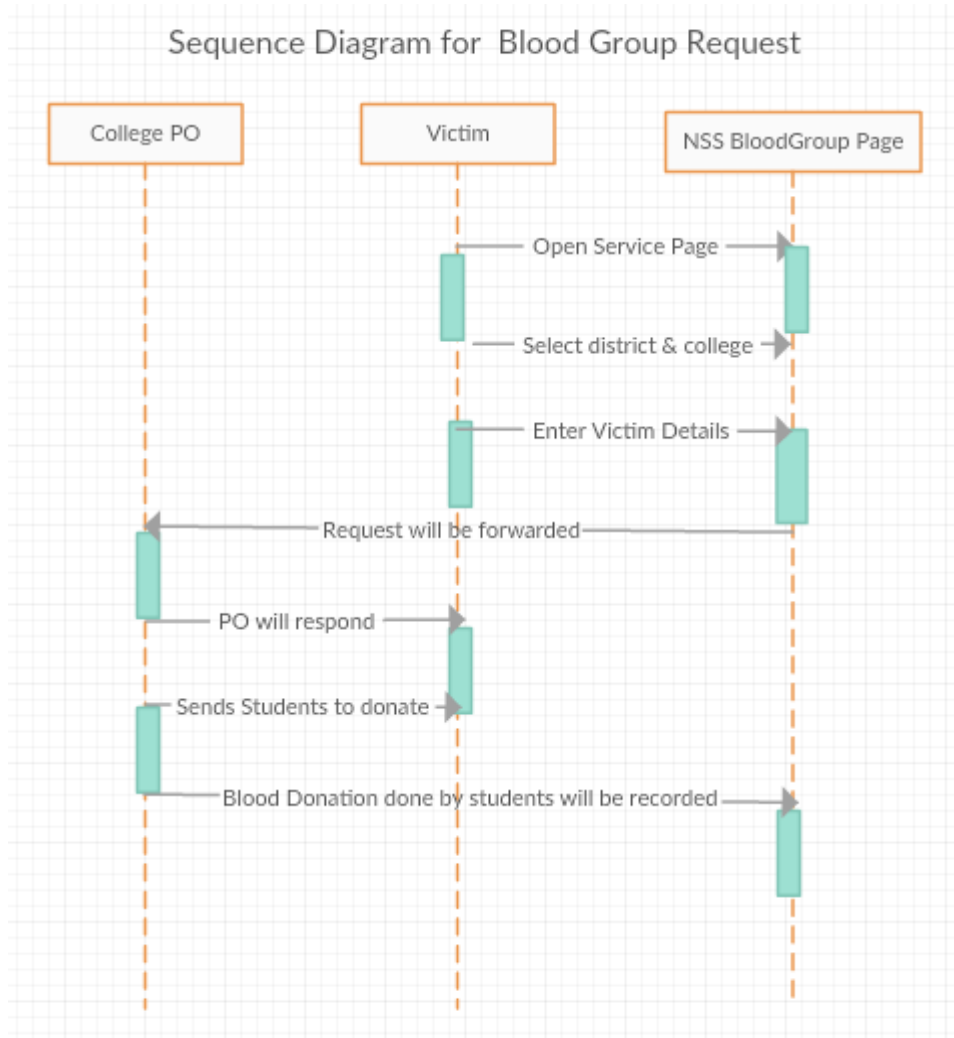


FIG: 4.2.5 Sequence Diagram for Blood Group Request

Class Diagram:

A **class diagram** is an illustration of the relationships and source code dependencies among **classes** in the Unified Modelling Language (UML). In this context, a **class** defines the methods and variables in an object, which is a specific entity in a program or the unit of code representing that entity.

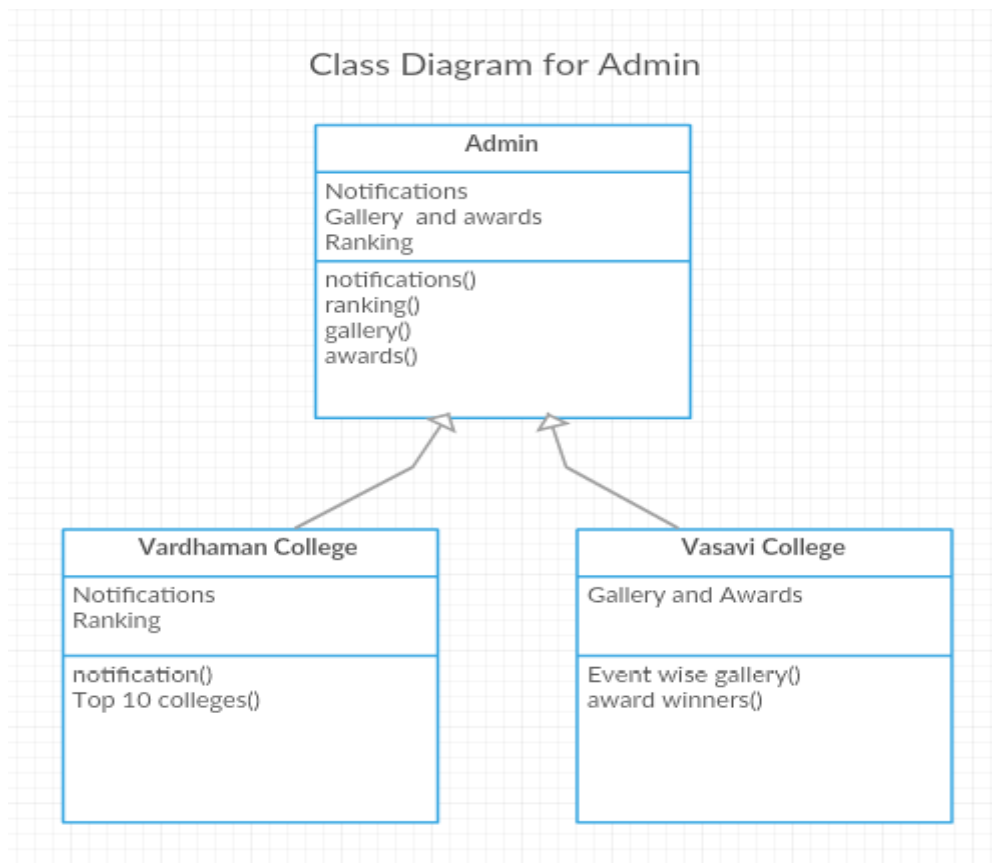


FIG: 4.2.6 Class Diagram for Admin

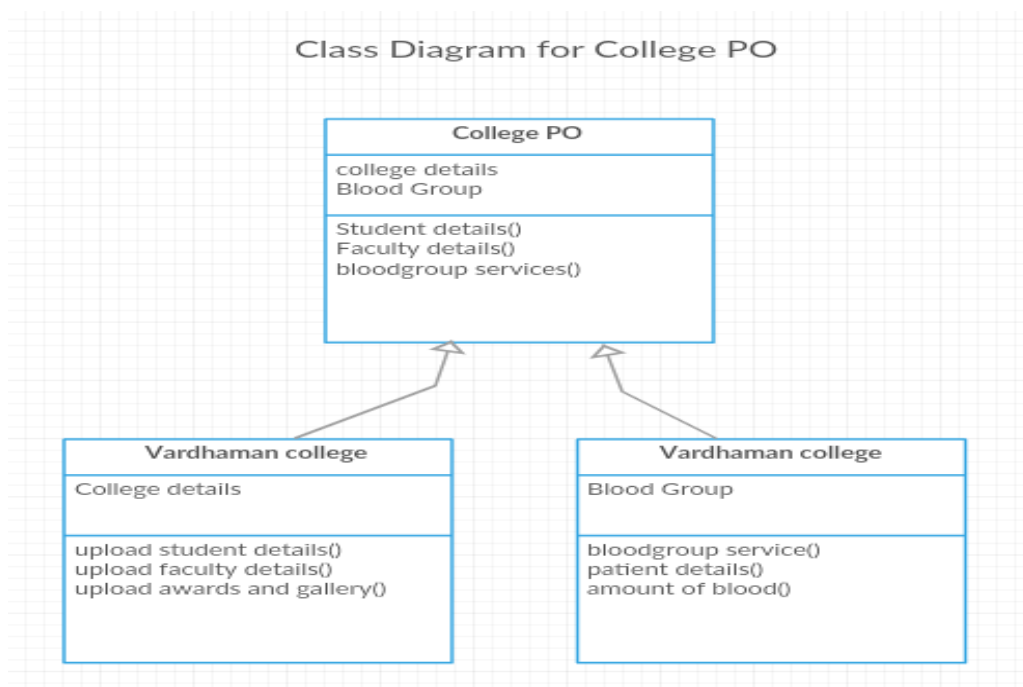


FIG: 4.2.7 Class Diagram for College Po

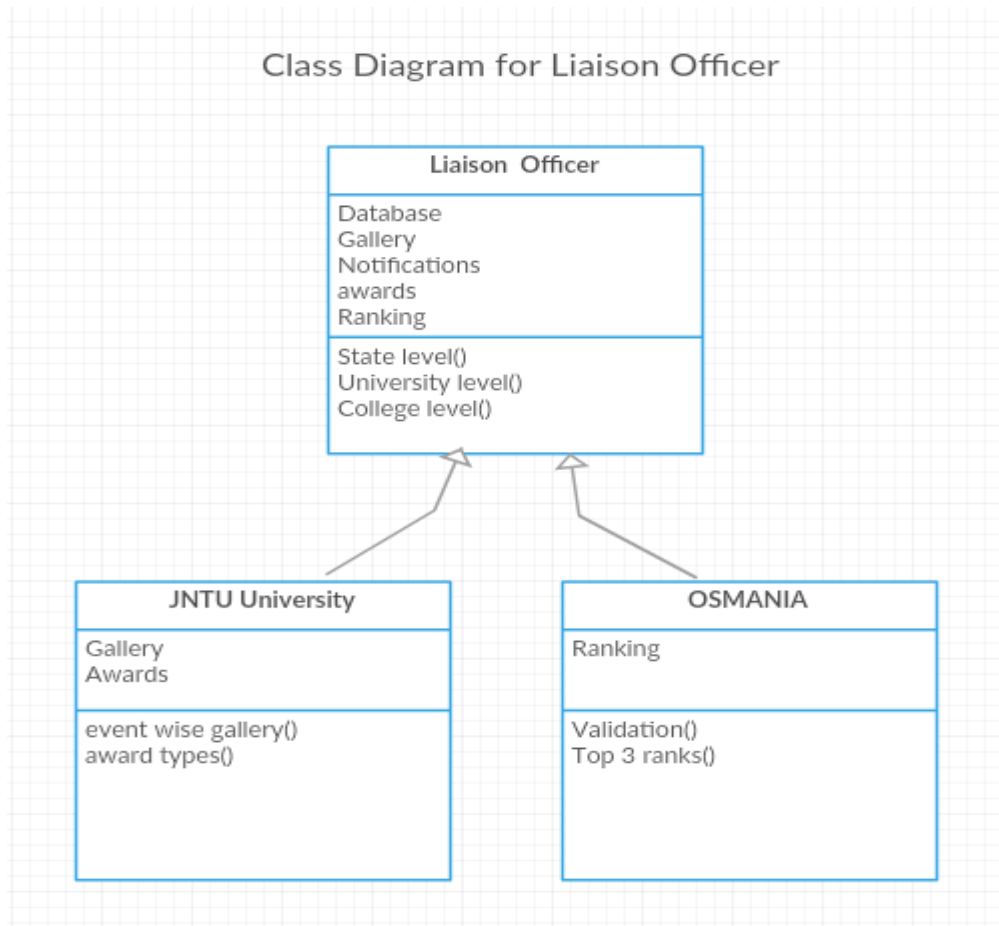


FIG: 4.2.8 Class Diagram for Liaison Officer

4.3 MODULE DESIGN AND ORGANIZATION:

The proposed project contains mainly five modules they are

- i.** Admin Module
- ii.** College PO Module
- iii.** Blood-Group Victim Module

Chapter – 5

IMPLEMENTATION

5.1 Introduction:

The project described within this document is a National Service Scheme Portal is designed to reduce the load of management of activities and awards. Being an integrated Online Portal System it will reduce paper work, provides softcopy proof's and consume both time and resource. Design to facilitate user friendly interface for both administrator and College PO as well as secure information is provided to user scope. It can be easy accessible at anywhere, any time and at any device as it is portable website designed to be access from laptop, mobiles, tablets, ETC.

5.2 Explanation of Key functions:

The proposed project contains mainly five modules they are:

1. Admin Module
2. College PO Module
3. Blood-Group Victim

1. Admin Module:

- Admin has the supreme power of the portal.
- Admin provides login id and password to the college PO.
- BPA is responsible for maintaining the whole system.
- BPA can send mail to respected college PO interact if any issue.

2. College PO Module:

- College PO can register by sending request.
- College PO can upload all the college awards, details and gallery.
- College PO will be notified when blood group request comes to the college page by the victim.
- College PO can update the password when needed.

3. Blood-Group Victim Module:

- Here victim/family member should upload victim details which include blood-group, description, and doctor's prescription.
- Request any blood group needed by the victim.
- Request can be recorded from anywhere and any device.
- Victim can select any college from the given list of colleges from district wise.

5.3 Method of Implementation

5.3.1 Outputs

[Home](#) [NSS Details ▾](#) [NSS Awards ▾](#) [NSS Activities ▾](#) [NSS Programs ▾](#) [Joined Colleges ▾](#) [Gallery](#) [Contact Us](#) [Logout](#)

Upload College Details

College Name

College Description

Location

State

Mandal

District

Pincode

College Logo

No file chosen

Email

Contact Number

Chairman Name

[Home](#)
[NSS Details](#)
[NSS Awards](#)
[NSS Activities](#)
[NSS Programs](#)
[Joined Colleges](#)
[Gallery](#)
[Contact Us](#)
[Logout](#)

Chairman Name

Chairman Email Id

Chairman's Image

No file chosen

Chairman Phone No.

Principal Name

Principal's Email

Principal's Image

No file chosen

Principal Phone No.

College PO Name

College PO's Email

College PO's Image

No file chosen

College PO's Phone No.

University

College Type

[Home](#)
[NSS Details](#)
[NSS Awards](#)
[NSS Activities](#)
[NSS Programs](#)
[Joined Colleges](#)
[Gallery](#)
[Contact Us](#)
[Logout](#)

University

Select University ▼

College Type

Select College Type ▼

NBA Accreditation

Select ▼

NAAC Accreditation

Select ▼

Established Year

Established Year

No. Of Branches

No of Branches

No. Of Students Intake

No of Students Intake

Student's List

Choose File No file chosen

Faculty List

Choose File No file chosen

Others

Submit

Fig 5.3.1.1: The above screenshots denotes the College PO Dynamic upload college details form.

NSS
National Service scheme

Home NSS Details NSS Awards NSS Activities NSS Programs Joined Colleges Gallery Contact Us Logout

Awards Upload

Home » Pages » Page Title

Awards Name
Select the Award ▼

Award Description

Award Year
Year

Award Image
Choose File No file chosen

Submit

Fig 5.3.1.2: The above screenshots denotes the College PO Dynamic upload Awards form.

The screenshot displays the NSS National Service Scheme website. The header is orange and contains the NSS logo, the text "NSS National Service scheme", and links for "FAQ", "Help Desk", and "Support". Below the header is a navigation bar with links: "Home", "NSS Details", "NSS Awards", "NSS Activities", "NSS Programs", "Joined Colleges", "Gallery", "Contact Us", and a "Logout" button. The main content area features a large banner with a wheel-like graphic and the text "Gallery Upload". Below the banner, there is a form with the following fields:

- Event Name:** A dropdown menu with the placeholder text "Select the Event".
- Event Year:** A text input field with the placeholder text "Year".
- Image1:** A file upload section with a "Choose File" button and the text "No file chosen".
- Image2:** A file upload section with a "Choose File" button and the text "No file chosen".
- Submit:** A button to submit the form.

Fig 5.3.1.3: The above screenshots denotes the College PO Dynamic upload Gallery form.

Blood Donation

Select State

Andhra Pradesh ▾

Select City

Hyderabad ▾

Select District

Rangareddy ▾

Select College

vmeg ▲
▾

Patient Name

Patient Name

Patient Number

Patient Number

Patient Age

Patient Age

Select College

A+ ▾

[Home](#) [NSS Details](#) [NSS Awards](#) [NSS Activities](#) [NSS Programs](#) [Joined Colleges](#) [Gallery](#) [Contact Us](#) [Login](#)

Patient Age

Patient Age

Select College

A+ ▼

Description

Hospital Name

Hospital Name

Hospital Area

Hospital Area

Hospital Number

Hospital Number

Choose File

 No file chosen

Submit

Fig 5.3.1.4: The above screenshots denotes Blood-Group form.

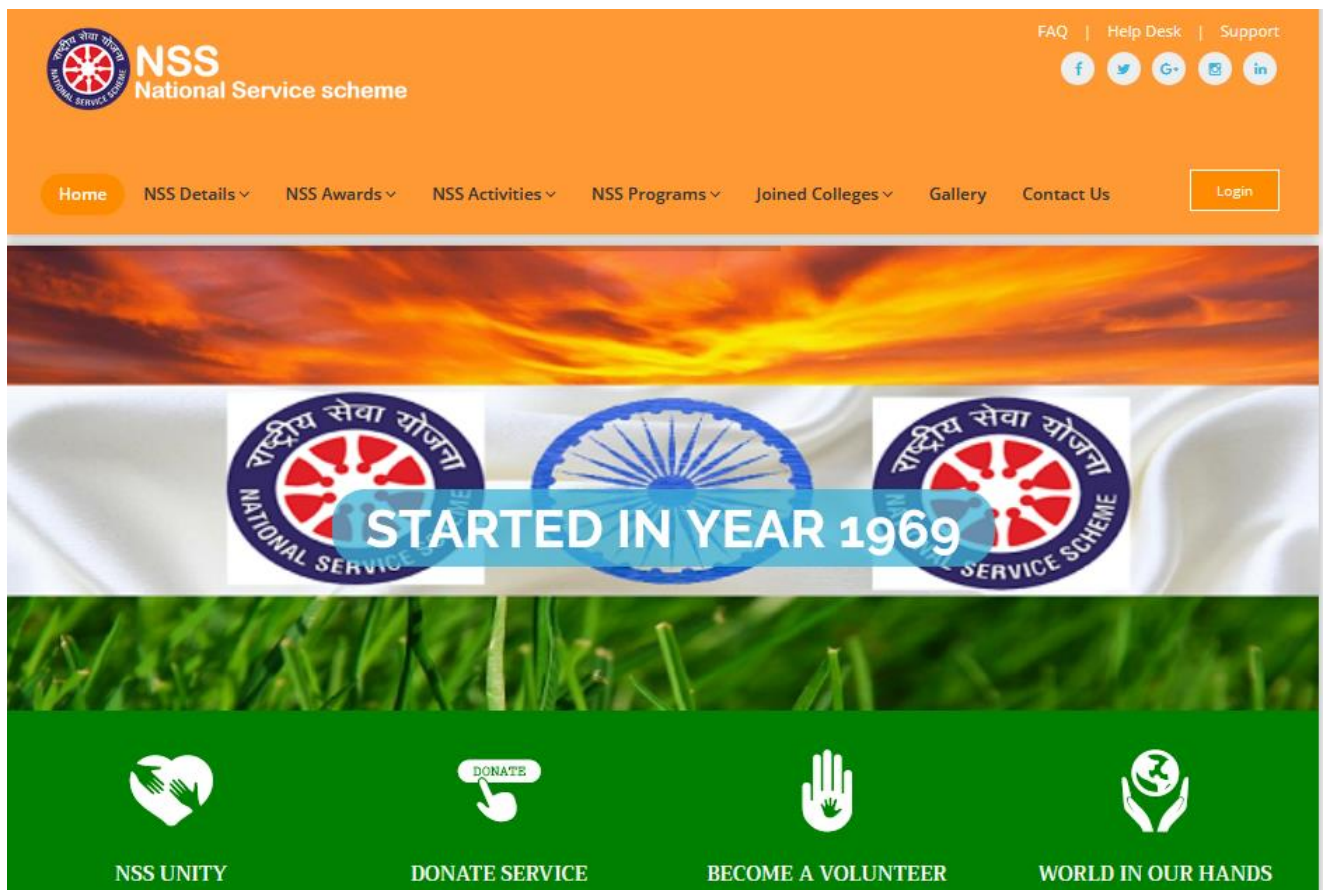


Fig 5.3.1.5: The above screenshot denotes Home Page.

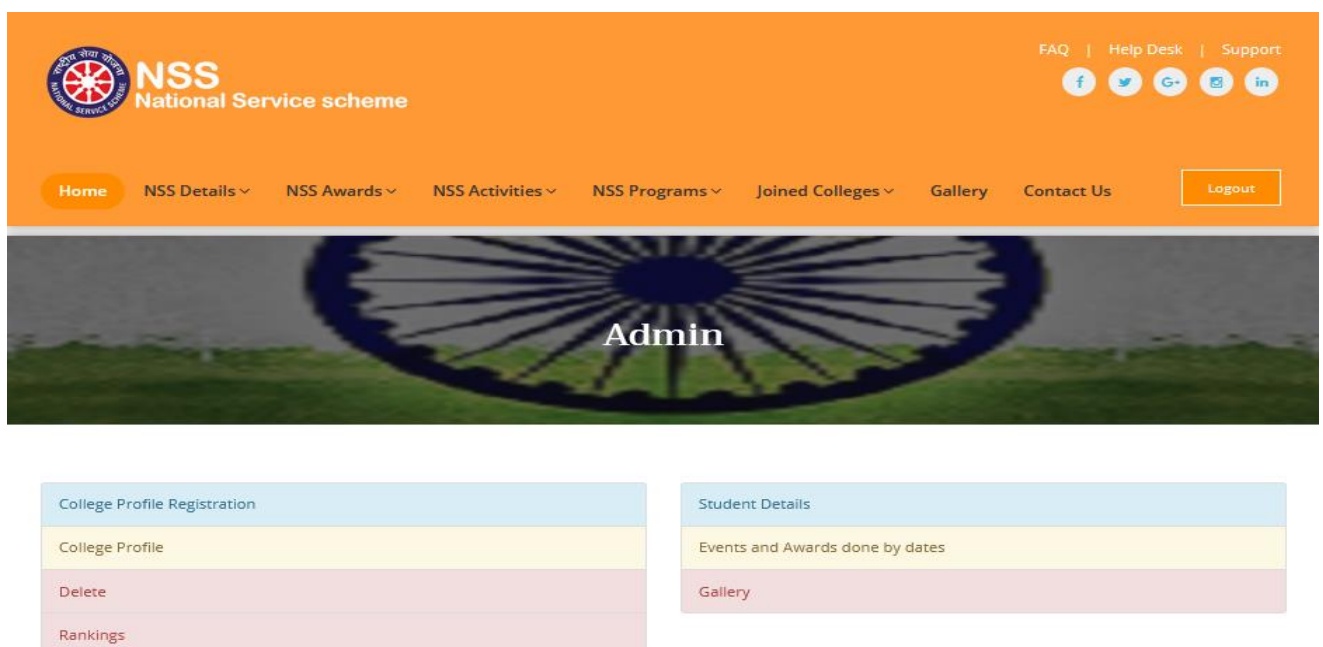
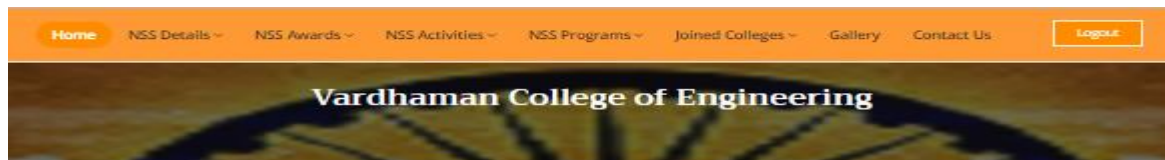


Fig 5.3.1.6: The above screenshot denotes Admin Page.



National Service Scheme



College Details



Chairman
Dr T Vijender Reddy
818185865
Vijender@vardhaman.org



Principal
Dr. S.Sai Satyanarayana
2147483647
Satyanarayana@vardhaman.org



College PO
N Srinivas reddy
2147483647
Srinivas@vardhaman.org

College Description

Mission To adopt innovative student centric learning methods.To enhance professional and entrepreneurial skills through industry institute interaction.To train the students to meet dynamic needs of the society.To promote research and continuing education

Link's

Upload Your College Information	Student Details
Faculty Details	Upload Awards
Upload Gallery	Display Awards and gallery
Change Password	Notifications

CONTACT US

Enter Name

Enter Phone

Enter Email

Enter Subject

Enter Message

Send your message

Fig 5.3.1.7: The above screenshots denotes College Profile Page.

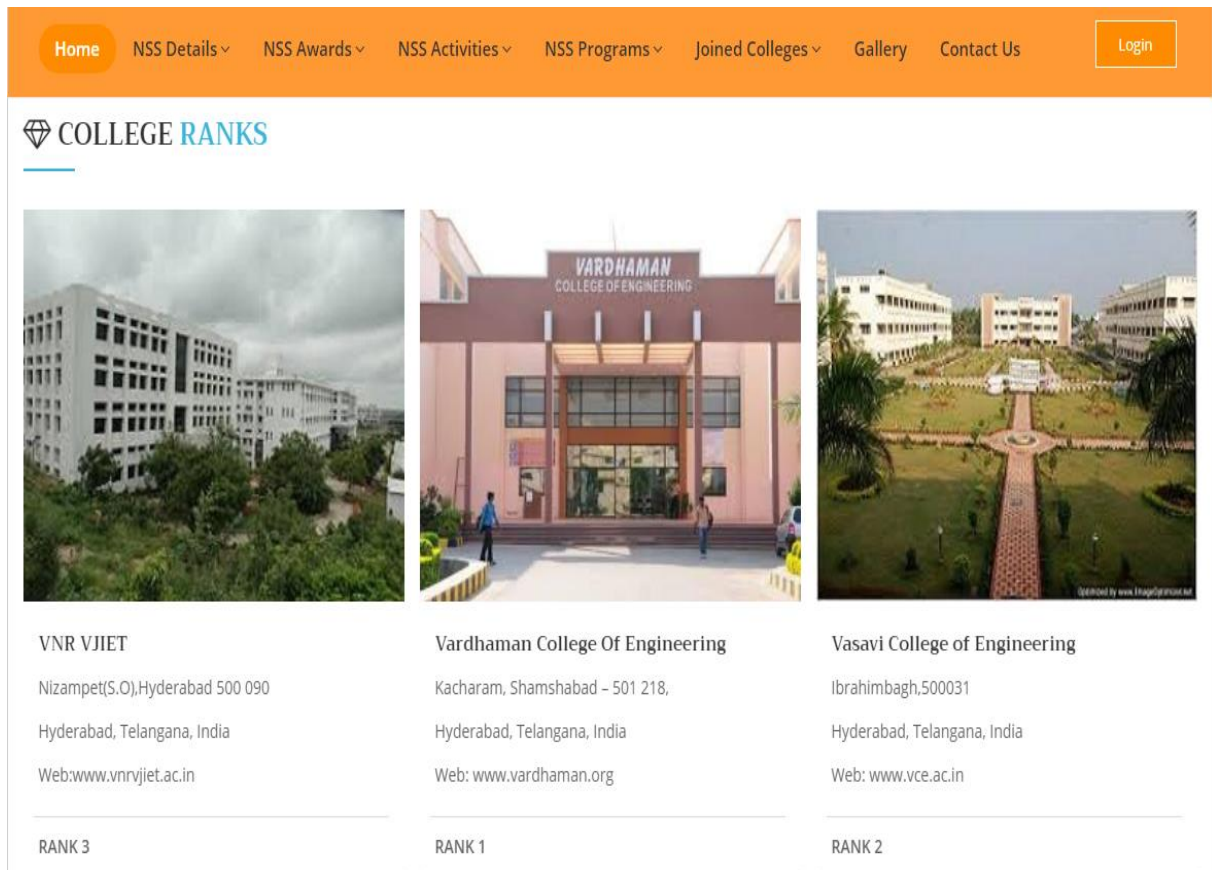


Fig 5.3.1.8: The above screenshots denotes College Rankings Page.

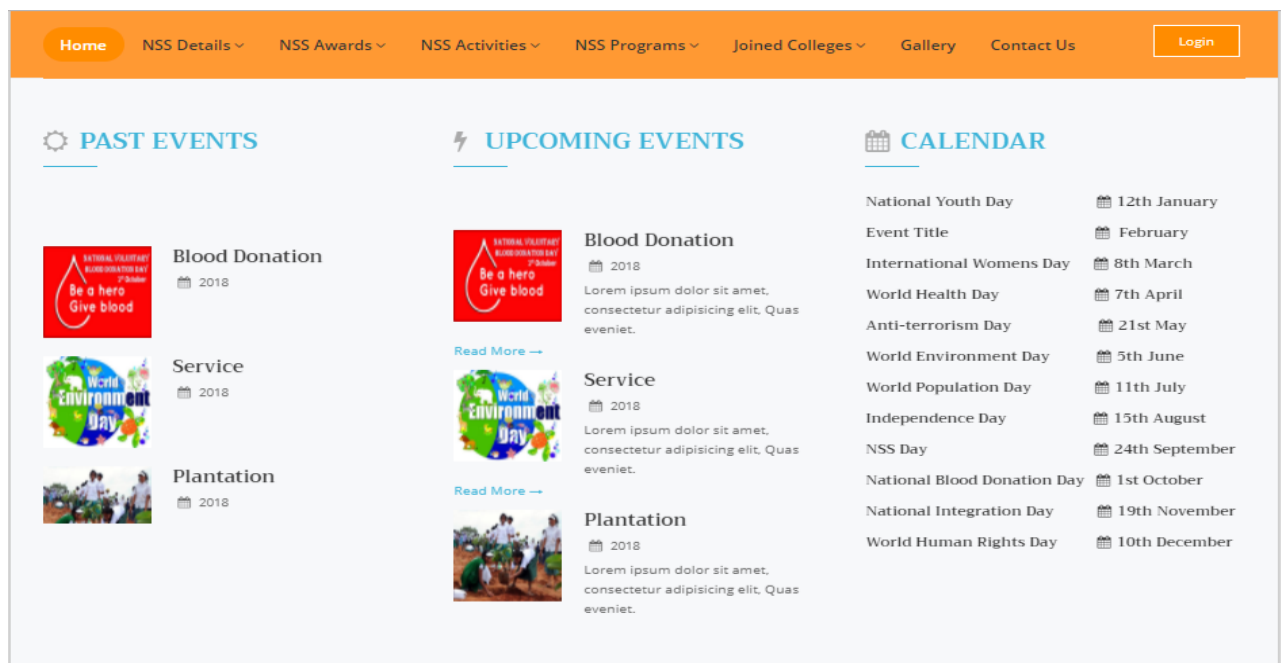


Fig 5.3.1.9: The above screenshots denotes Event Notifications Page.

5.3.2: Result Analysis

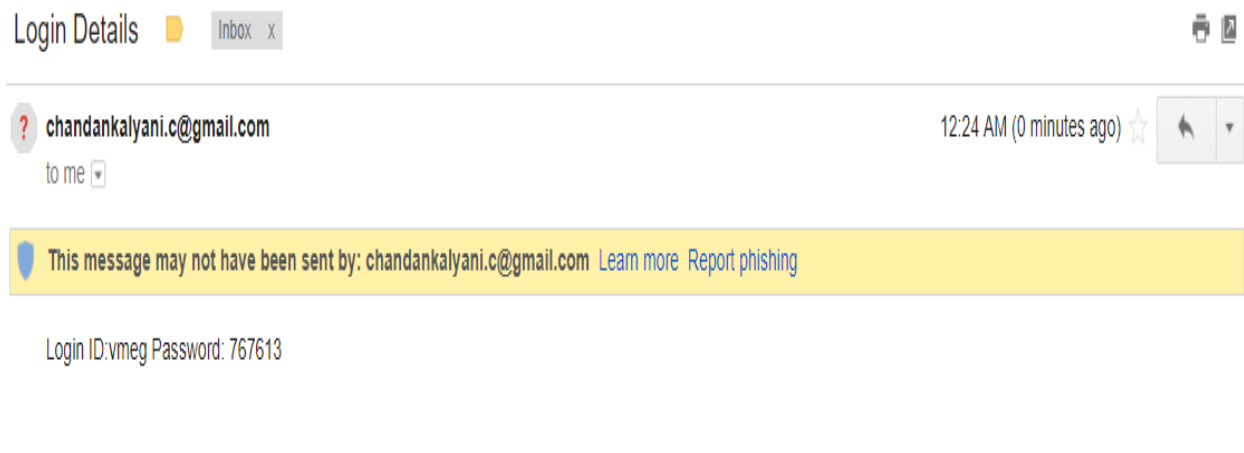


Fig 5.3.2.1: The above screenshot denotes Automated Login ID and Password output sent to college email Page.

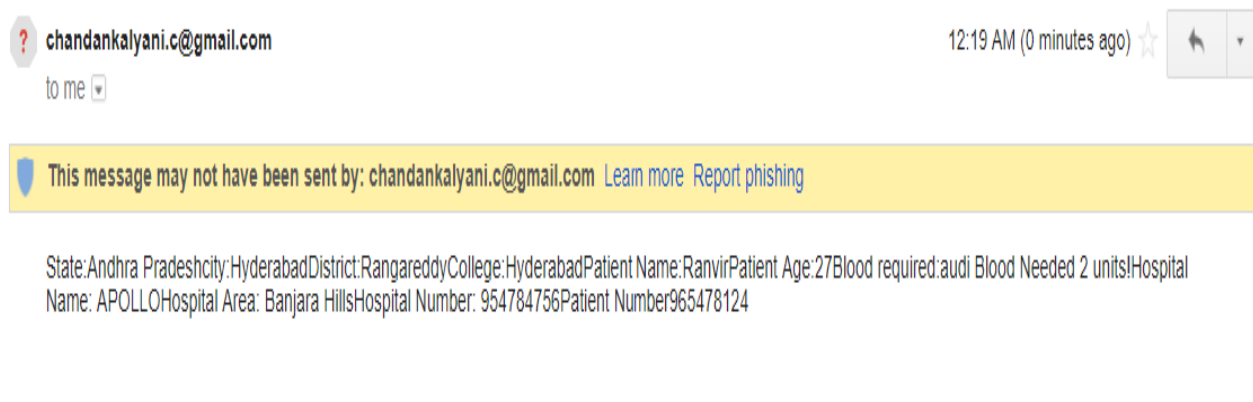


Fig 5.3.2.2: The above screenshot denotes victim request sent to College PO email Page.

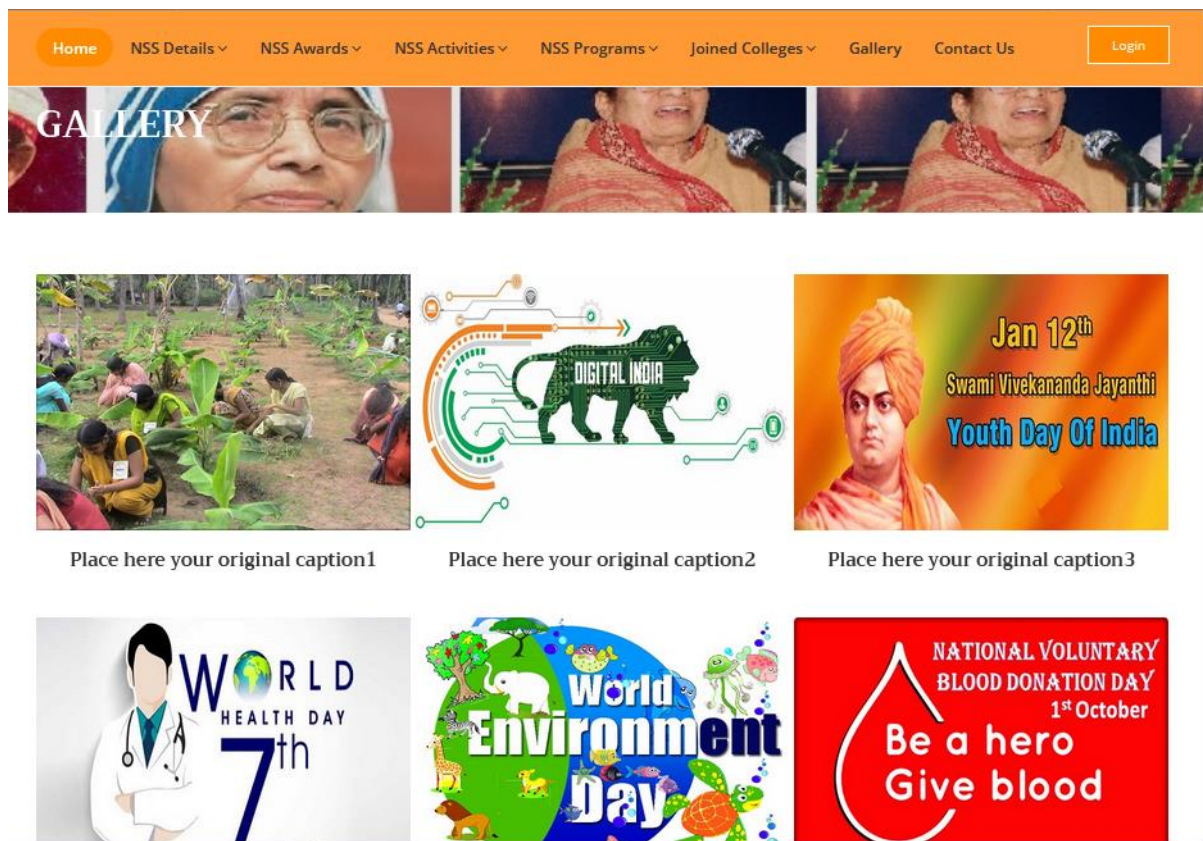


Fig 5.3.2.3: The above screenshot denotes Dynamically uploaded Gallery Page.

Chapter – 6

TESTING & VALIDATION

6.1 Introduction:

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub-assemblies, assemblies and/or a finished product, it is the process of exercising software with the intent of ensuring that the Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of test. Each test type addresses a specific testing requirement.

6.2 Design of test cases and scenarios:

Test Case 1:

S.No	Steps Involved	Inputs	Expected Result	Actual Result	Test Cases Pass/Fail
1.	Run Website	http://localhost/nss	Website should open	Website is opened	Pass
2.	Login College Profile by College PO	Login ID and Password	Login college profile should open	Login page is opened	Pass
3.	Upload Gallery images	Upload any two images	Display the images uploaded	Undefined variable: file upload	Fail
4.	Admin college profile view	Selecting College name	Should open college profile	Index not found: page error	Fail
5.	Blood-Group request	Upload victim details and send request	Request sent	Error sending request.	Fail

Test Case 2:

S.No	Steps Involved	Inputs	Expected Result	Actual Result	Test Cases Pass/Fail
1.	Run Website	http://localhost/nss	Website should open	Website is opened	Pass
2.	Login College Profile by College PO	Login ID and Password	Login college profile should open	Login page is opened	Pass
3.	Upload Gallery images	Upload any two images	Display the images uploaded	Undefined variable: file upload	Pass
4.	Admin college profile view	Selecting College name	Should open college profile	Index not found: page error	Pass
5.	Blood-Group request	Upload victim details and send request	Request sent	Error sending request.	Pass

Chapter – 7

CONCLUSION

7.1 Project Conclusion:

From a proper analysis of positive points and constraints on the portal, it can be safely concluded that the product has a highly efficient GUI based interface. This portal can be easily plugged in many systems and also the interface is user friendly.

Generally, there are more than 68 Lakh students present in college level in Telangana State. There is always problem regarding announcements of the events and awards related to National Service Scheme (NSS) due to political influence while selecting the awards for the students.

So, there is a need to develop a system that can solve the mentioned problems. This software comes with the solution avoiding such problems faced by the people which include both Admin and college PO in getting bus pass. It's the fastest and simple solution making whole process is dynamic.

7.2 Project Future Enhancement:

We plan to continue our research in the following directions. First we are planning to extend the portal from State level to National level providing all India level supreme Admin who has powers to give rights for the selected liaison officer from state level officials by providing automating Login ID and Password generations system.

Now it's the website we developed but later on we are going to develop mobile application so that it will be easily accessed by the users instantly without much difficulty in accessing every time.

As the demand for the project is very high there will be more number of users hence providing an ordinary database is little expensive to store and retrieve the data all the time so it's better if we upgrade to cloud to store, retrieve and process the data instantly all the time at a very inexpensive cost.

7.3 Bibliography:

- Beginning PHP -- Dave Mercer.
- PHP and MySQL Web Development – Luke Welling, Laura.
- SQL Server –2000 – Dusan Petkovic.

7.4 Websites:

1. NSS Official website for reference.
<http://nss.nic.in/>
2. Details referred to build the website regarding css, javascript, php and my sql.
<https://www.w3schools.com/>