NSS Website

Submitted in partial fulfilment of requirements of the degree

BACHELOR OF ENGINEERING
COMPUTER ENGINEERING

By

Name	Roll Number
Antara Kolhatkar	202101029
Anujeet Kunturkar	202101030
Mervis Mascarenhas	202101034
Nilesh Mishra	202101035

Supervisor
Prof. Kirti Motwani
(Assistant Professor, Department of Computer Engineering)

Department of Computer Engineering,
Xavier Institute of Engineering,
Mahim, Mumbai - 410 016,
University of Mumbai
(AY 2022 - 23)

Certificate

This is to certify that the Mini Project entitled **"NSS Website"** is a bonafide work of **Antara Kolhatkar(29), Anujeet Kunturkar(30), Mervis Mascarenhas(34) and Nilesh Mishra(35)**submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **"Bachelor of Engineering"** in **"Computer Engineering"**.

Prof. Kirti Motwani
Supervisor

Dr. Kunal Meher
Head of Department

Dr. Y. D. Venkatesh
Principal

Mini Project Approval

This Mini Project entitled ""**NSS Website**" by **Antara Kolhatkar(29), Anujeet Kunturkar(30), Mervis Mascarenhas(34) and Nilesh Mishra(35)**is approved for the degree of **"Bachelor of Engineering"** in **"Computer Engineering"**.

Examiners
1.Prof. Kirti Motwani

(Internal Examiner Name and Sign)

2.

(External Examiner Name and Sign)

Date:
Place: Mahim, Mumbai

Abstract

The NSS website is an attendance tracker designed to help organizations keep track of attendance for NSS volunteers and leaders. With user-friendly features and intuitive navigation, the website allows users to easily log in and view attendance records, register for NSS events, track hours, and submit reports. With real-time updates and notifications, the NSS website provides accurate and up-to-date attendance information, enabling NSS leaders to manage the attendance of volunteers.The NSS website provides a convenient and reliable solution for attendance tracking. It allows the student volunteers to submit reports on the event they attended. Student Coordinators for that event can take attendance of the volunteers who are attending the event. The Admin has the permission to create events, monitor the number of hours volunteers and appoint the student coordinators for events.

Acknowledgments

It gives us great pleasure to express our profound gratitude to our supervisor Prof. Kirti Motwani, Department of Computer Science and Engineering for her constructive academic advice and guidance, constant encouragement, valuable suggestions, and all other support throughout this project work. We would like to appreciate all those who inspired and provided extra support to help us work on this project and make it successful.

We would also like to appreciate the guidance given by other supervisors as well as the panels especially in our project presentation that their constructive feedback has made us improve our presentation skills . We are also grateful to Xavier Institute of Engineering ,Mahim for providing the necessary resources and facilities that enabled the project to be completed successfully. Their support and cooperation have been crucial in ensuring the project's completion within the set timeline.

Finally we would like to thank our family and friends for their unwavering support and encouragement throughout the project's journey. Their constant belief in us has been a source of inspiration and motivation to complete the project successfully.Thank you to everyone who has contributed to the success of the project.

Contents

1 Introduction

1.1 Motivation

The National Service Scheme (NSS) is a Central Sector Scheme of the Government of India, Ministry of Youth Affairs Sports. Its objectives identifying the needs and problems of the community and involve the NSS volunteers in problem-solving, gaining skills in mobilizing community participation, acquiring leadership qualities, and practicing national integration and social harmony.

The majority of the group members being a part of the NSS unit of Xavier Institute of Engineering came to encounter a few difficulties faced by the event coordinators and the student volunteers. We felt like the work of the NSS unit was underappreciated and decided to come up with a website to bring emphasis to the work of the NSS unit of XIE. We also thought it was necessary to come up with a solution to digitize the traditional attendance-taking method which is time-consuming and inefficient. To keep track of the number of hours one attended at the end of the year it is troublesome to count the number of hours one attended in total over the academic year.

1.2 Statement and Objectives

The National Service Scheme (NSS) is a vital program that aims to promote social welfare and community development among the youth in India. However, managing and keeping track of the attendance of volunteers in various NSS activities and events can be a challenging task. Additionally, disseminating information about upcoming events and activities to a large number of volunteers can be time-consuming and ineffective.

To address this issue, we propose to develop a web-based attendance tracker and notice board for NSS activities and events. The website will allow volunteers to log in and register their attendance for various events and activities, and track their participation and progress in the NSS events. Moreover, the website will also serve as a notice board to display information about upcoming events, deadlines, and announcements, making it easier for volunteers to stay updated and informed about the NSS activities and events.

Overall, the proposed NSS website will provide an efficient and user-friendly platform for managing attendance and communication, streamlining administrative tasks, and promoting community engagement among NSS volunteers.

1.3   Organization of the report

This report further explains the implementation of the NSS website for the NSS unit belonging to our college. It includes the title page, table of contents, abstract, introduction, objectives, current implementation of the existing system and implementation proposed by the group to overcome the shortcomings of the existing systems.

2 Literature Survey

2.1 Survey of existing systems

The existing system in the NSS unit to keep a track of the volunteers who attended a certain event and the number of hours one acquired is as follows:

- Announcing an event: Announcements regarding upcoming NSS events are done on whatsapp group by mentioning the event name, date,time and location of the event.

- Attendance system: A student coordinator is appointed for every event/activity that occurs. The task of the coordinator is to mark the attendance of the student volunteers that attends the event

- Keeping a track of hours: Each and every volunteer has to complete at least 120 hours for each academic year, i.e. he has to provide community service for a minimum of 120 hours. Keeping a track of this will help the NSS leaders to crosscheck the total hours during the final submission.

- Report Publishing : A student volunteers have to submit report of the event after it is conducted on google form.

2.2   Limitations of the existing system/research gap

As mentioned in the survey of the existing system for the attendance task, the student coordinator needs to take attendance of the volunteers that attend the event by making use of the traditional method i.e. on paper using a pen which is inefficient and time-consuming. In order to track the number of hours a volunteer attends one has to keep a logbook of the events attended. It is the tendency of the human mind to forget things. Naturally, students tend to forget their logbooks and end up missing the hours which they attended. It is also an efficient way for the teacher coordinators to recheck the student's logbook during the final submission of NSS diaries for which the student volunteers get credit. Announcing the events on whatsapp group is an inefficient way to do so since keeping a log of all the events can be hectic. Student volunteers find it hard to reach the location since they are not provided with the exact location.Students register themselves by copying a message and adding their names serially. By registering this way there are chances of data inaccuracy since one can replace someone else's name with theirs. All these are the limitations of the existing system.

2.3 Project Contribution

Following is the contribution of the group members to the project:

- Antara Kolhatkar (29)

  - GUI of the website

  - Documentation

  - Gallery

- Anujeet Kunturkar (30)

  - File submission and publishing

  - Connectivity of the pages

  - Display of upcoming events

- Mervis Mascarenhas (34)

  - Firebase Connectivity

  - Attendance system

  - Publishing notices

- Nilesh Mishra (35)

  - Nodejs Connectivity

  - Event creation module
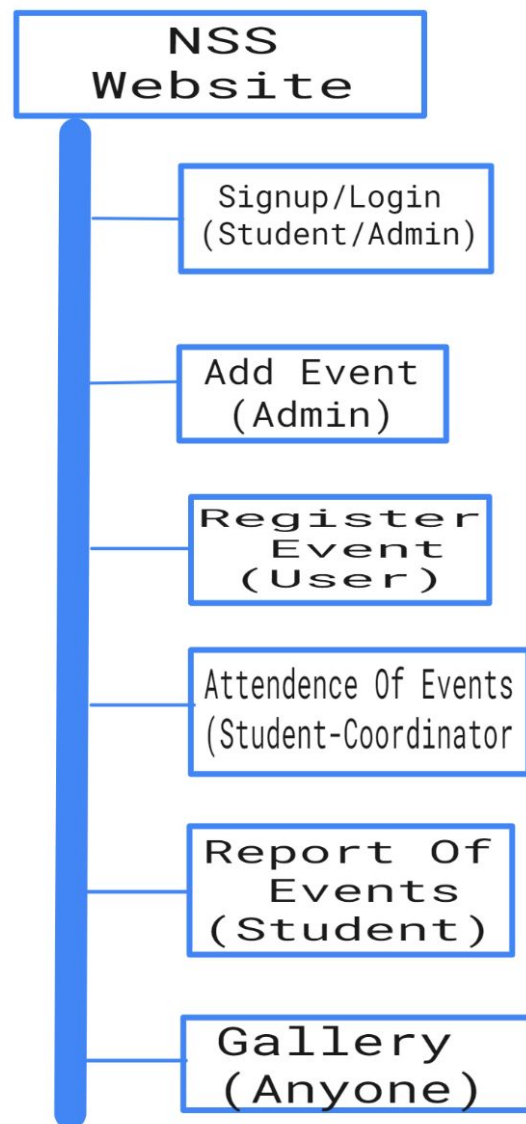
  - User authentication and user roles

3   Implementation

3.1   Proposed System

The National Service Scheme (NSS) website created for your college is a great initiative to promote social welfare activities among students. The website allows the admin to add various events such as blood donation camps, beach cleanups, etc. The proposed system is designed to be user-friendly and has multiple features that enable seamless communication between the admin, event coordinators, and students. The website offers a convenient platform for students to enroll in events and submit reports, making tracking student participation and encouraging active involvement in social welfare activities easier.

The proposed system incorporates various features such as event management, attendance tracking, and report submission. The event management module allows the admin to add, modify and delete events as per their requirement.The image gallery enables the student to upload and view pictures of previous events. The attendance tracking module enables the event coordinator to mark the attendance of students who participated in the event. The report submission module enables students to submit their reports related to the event they attended. All these features together make the proposed system efficient and effective in promoting social welfare activities among students.

3.2 Architecture/Framework

3.3   Details of Software used

To develop the National Service Scheme (NSS) website for our college, a variety of software and technologies were utilized. The chosen software allowed for the efficient and effective creation of a dynamic and user-friendly website, with features such as event management, attendance tracking, and report submission.

Firebase was one of the key software used for this project. Firebase is a cloud-based platform that provides a suite of features for web development, including hosting, authentication, and real-time database capabilities. The real-time database feature was especially useful for this project, allowing for seamless communication between the website and the database, which is crucial for tracking attendance and other important data.

MongoDB, a NoSQL document-based database, was also used for data storage. It offers high scalability and flexibility, making it a reliable choice for storing large amounts of data. The combination of Node.js and MongoDB allowed for efficient and effective data management, resulting in a robust and scalable system.

Node.js was also used for the back-end development of the website. It is a powerful and versatile server-side runtime environment that allows for the creation of scalable and high-performance network applications. The use of Node.js allowed for efficient handling of large amounts of data, making the website responsive and fast.

JavaScript, a popular programming language, was used for the development of the website's front end. It is an essential programming language for creating interactive and dynamic web pages. EJS, a simple and efficient templating language, was also used for generating HTML markup with plain JavaScript, which made the coding process more streamlined and efficient.

Finally, bootstrap was used for styling the website. bootstrap is a powerful tool for controlling the visual aspects of a website, including the layout, colors, and fonts. It was used to make the website more visually appealing and user-friendly, which is important for encouraging student engagement and participation.

Conclusion

The National Service Scheme Website developed for college purposes has been successful in providing a platform for students to track their attendance and stay informed about upcoming events such as blood donation and beach cleanup drives. The attendance tracker functionality has helped simplify the process of keeping track of attendance records for both students and faculty, while the event notices have helped raise awareness and encourage participation in various community service activities.

Overall, the website has helped facilitate the mission of the National Service Scheme to promote social responsibility and community service among college students. Moving forward, the website can be further improved by incorporating feedback from users and adding new features that enhance user experience and engagement.

References

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Code

```
// Your web app's Firebase configuration
const firebaseConfig = {
  apiKey: "                                    ",
  authDomain: "                        firebaseapp.com",
  projectId: "                    ",
  storageBucket: "                        appspot.com",
  messagingSenderId: "            ",
  appId: "                                            "
};
```

```
var q = collection(clouddb, "FileLinks");

    const querySnapshot = await getDocs(q);
    querySnapshot.forEach((doc) => {
    // doc.data() is never undefined for query doc snapshots
    console.log(doc.id, " => ", doc.data());
    console.log(doc.id, " => ", doc.data().ImageURL);
    let lpic = doc.data().ImageURL;
    console.log(doc.data().count);
    // Find a <table> element with id="myTable":
        var table = document.getElementById("myTable");

        // Create an empty <tr> element and add it to the 1st position of the table:
        var row = table.insertRow(1);

        // Insert new cells (<td> elements) at the 1st and 2nd position of the "new" <tr> eleme
        var cell1 = row.insertCell(0);
        var cell2 = row.insertCell(1);
        var cell3 = row.insertCell(2);

        // Add some text to the new cells:

        cell1.innerHTML = ++i;
        cell2.innerHTML = doc.data().ImageName;
        cell3.innerHTML = "<td><button>Download</button></td>"
        cell3.onclick = function () {
            window.open(doc.data().ImageURL, "_blank");
        }

    });
```

```javascript
var q = collection(clouddb, "Eventsofnss");

    const querySnapshot = await getDocs(q);
    querySnapshot.forEach((doc) => {
    // doc.data() is never undefined for query doc snapshots
    console.log(doc.id, " => ", doc.data());
    console.log(doc.id, " => ", doc.data().idevent);

        // Find a <table> element with id="myTable":
        var table = document.getElementById("myTable");

        // Create an empty <tr> element and add it to the 1st position of the table:
        var row = table.insertRow(1);

        // Insert new cells (<td> elements) at the 1st and 2nd position of the "new" <tr> element:
        var cell1 = row.insertCell(0);
        var cell2 = row.insertCell(1);
        var cell3 = row.insertCell(2);
        var cell4 = row.insertCell(3);
        var cell5 = row.insertCell(4);

        // Add some text to the new cells:

        cell1.innerHTML = ++i;
        cell2.innerHTML = doc.data().idevent;
        cell3.innerHTML = doc.data().title;
        cell4.innerHTML = doc.data().date;

        cell5.innerHTML = "<td><button>View</button></td>"
        cell5.onclick = function () {
            window.open('/attendance', '_blank');
            localStorage.setItem("attend", doc.id);
            localStorage.setItem("atdate", doc.data().date);
        }

    });
```

```javascript
var name = localStorage.getItem("userlogin");
var role = localStorage.getItem("role");
const addEventFrom = document.querySelector('.add')
addEventFrom.addEventListener('submit',(e) => {
    e.preventDefault()
    addDoc(colRef,{
        title: addEventFrom.title.value,
        date: addEventFrom.date.value,
        start: addEventFrom.stime.value,
        end: addEventFrom.etime.value,
        description: addEventFrom.des.value,
        location: addEventFrom.loc.value,
        link: addEventFrom.loclin.value,
        idevent: addEventFrom.EID.value,
        name: name,
        role: role

    })
```

```javascript
var q = collection(clouddb, "ImageLinks");

    const querySnapshot = await getDocs(q);
    querySnapshot.forEach((doc) => {
    // doc.data() is never undefined for query doc snapshots
    console.log(doc.id, " => ", doc.data());
    console.log(doc.id, " => ", doc.data().ImageURL);
    let lpic = doc.data().ImageURL;
    console.log(lpic);

        var img = document.createElement('img');

        img.src = lpic;
        img.style = 'height: 300px; margin-left: 30px; margin-right: 30px;  margin-bottom: 30px; transition: 0.

        document.getElementById('List').appendChild(img);

    });
```

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```
var q = collection(clouddb, "uploadLinks");

    const querySnapshot = await getDocs(q);
    querySnapshot.forEach((doc) => {
    // doc.data() is never undefined for query doc snapshots
    console.log(doc.id, " => ", doc.data());
    console.log(doc.id, " => ", doc.data().ImageURL);
    let lpic = doc.data().ImageURL;
    console.log(lpic);
    // Find a <table> element with id="myTable":
        var table = document.getElementById("myTable");

        // Create an empty <tr> element and add it to the 1st position of the table:
        var row = table.insertRow(1);

        // Insert new cells (<td> elements) at the 1st and 2nd position of the "new" <tr> element:
        var cell1 = row.insertCell(0);
        var cell2 = row.insertCell(1);
        var cell3 = row.insertCell(2);
        var cell4 = row.insertCell(3);


        // Add some text to the new cells:

        cell1.innerHTML = ++i;
        cell2.innerHTML = doc.data().ImageName;
        cell3.innerHTML = doc.data().uploader;
        cell4.innerHTML = "<td><button>Download</button></td>"
        cell4.onclick = function () {
            window.open(doc.data().ImageURL, "_blank");
        }

    });
```

Results

SR no.	Document Name	Download
1	Pledge.pdf	Download
2	NSSdiary.pdf	Download
3	Form1.pdf	Download
4	poster_competition.pdf	Download
5	NSScamp.pdf	Download

Login

Username

Password

Role Student

Create a new account

Submit

Login

Username

Password

Role Student

Create a new account

Submit

SR no.	Event ID	Event Name	Date	Attendance
2	1010	Beach Clean Up	2023-05-18	View
1	1012	Blood Donation	2023-04-30	View

Add Notice

Title

Description

Publish Reset

Add Event Details

Event ID

Title

Date:

dd-mm-yyyy

Time

--:-- to --:--

Location

Location Link

Description

Publish Reset