

Project Proposal
SE 3112 - Software Project Lab II

NSTU Club Collab

By Team Triangle

Shahriar Ahmed
ASH1925015M
Year: 03 & Term: 01
shahriar2514@student.nstu.edu.bd

Ikra Chowdhury
BFH1925019F
Year: 03 & Term: 01
ikra2514@student.nstu.edu.bd

Sourav Barman
ASH1925030M
Year: 03 & Term: 01
barman2514@student.nstu.edu.bd

Tasnim Rahman
Lecturer
Institute of Information Technology
tasnim.iit@nstu.edu.bd

Table of Contents

| | |
|--|---|
| Introduction | 3 |
| Motivation | 3 |
| Objectives | 4 |
| Target Customers | 4 |
| Application Features & Description | 4 |
| Models, Tools, and Resources | 5 |
| Model | 5 |
| Tools and Resources | 5 |
| Work Distribution | 6 |
| Proposed Timeline | 6 |
| Time Scale | 7 |
| Deliverables | 7 |
| Challenges | 7 |

Introduction

This is a proposal report for Software Project Lab II. This project will be developed during the 5th semester of BSSE, Institute of Information Technology, Noakhali Science and Technology University from 12 June 2022 by the proposal presentation, and the final project will be delivered on 08 September 2022. Our team will work along with our regular academic courses.

Our project, "NSTU Club Collab" is a web application that will connect all of our university's clubs together on one site, making them more accessible to students and also will aid in the management of club functions. Our project will create a simple and appealing atmosphere for both club members and students to help our university's clubs become more efficient and active.

Motivation

A University is a place where students come from every quarter for every kind of knowledge; a place for the communication and circulation of thought. It is a place where inquiry is pushed forward, discoveries verified and perfected, and error exposed, by the collision of mind with mind, and knowledge with knowledge. To achieve these goals, we can see a variety of student groups at the institution, each with a large number of opportunities for students to demonstrate their potential and communicate with one another. Clubs provide opportunities for companionship, personal development, job advancement, and university inclusion. They provide students with skills and abilities that they would not otherwise be able to obtain or develop through traditional third-level schooling. As a result, almost every university, including ours, has clubs. Our university offers more than 30 clubs, but they are not widely accessible to students, and the events of the clubs are not highly publicized. Aside from that, the club's internal operations and organization are difficult to manage. As a result, our project focuses on bringing all of our university's clubs together in one spot, allowing students to become more acquainted with new opportunities and experiences while also making club activities more convenient and engaging for club members.

Objectives

We will focus on achieving the following objectives:

- Bring all of our university's clubs together on one platform
- Make the club's programs and events more accessible to students
- Make it easier and more effective for clubs to recruit new members
- Make the job of club management easier
- Provide an easy payment process for clubs
- Help in tracking club payroll system

Target Customers

The target customers for our system are students, clubs, and the club members in the proposal. Students are the primary audience for the one we are attempting to increase the involvement in our university's club. The club and its members are the end users of the various services that will make management more convenient.

Application Features & Description

1. Students and club's profile: The 'NSTU Club Collab' is a web application that aids in the management of club functions. Every student, as well as club, must be registered in our system to use its features. They can access their functionality after successfully registering their account. Every student and club have a unique profile.
2. Online Recruitment facility: There is a form in this system that assists in recruiting new members.
3. Club event post: When clubs organize an event, they can post it so all students can see it and participate.
4. Monthly fee payment: Each club has a monthly charge that members must pay. Any club member could quickly pay their membership fee using the payment system.

5. Club member's payroll: The Treasurer of the club will be able to monitor the dashboard and keep track of each club member's payment as well as the club's monthly and annual club fund calculations.
6. Clubs' invitation: Clubs can ask other clubs to join them for their event. The host club sends a message to the visitor club inviting them to participate.

Models, Tools, and Resources

Model

We want to try something different, thus we've chosen an agile development strategy for our project. Tasks are broken down into smaller iterations under the Agile Model. The segmentation of the complete project into smaller pieces helps to reduce the total project delivery time requirements while minimizing project risk.

Tools and Resources

| Category | Description |
|---------------------|-----------------------------|
| Text Editor and IDE | VS Code, PhpStorm |
| Local Server | Xampp Control Panel |
| RDBMS | MySQL |
| Language | HTML, CSS, JS, PHP, SQL |
| Learning Resource | W3school,php.net.github.com |

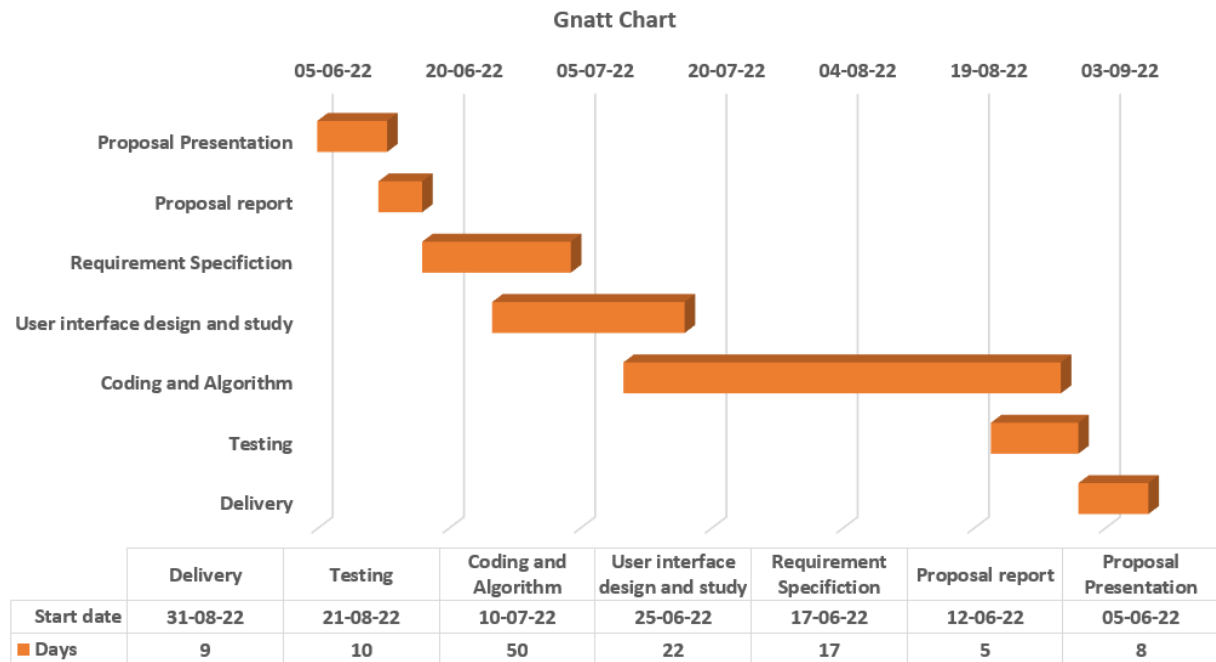
Work Distribution

| Task | Active Member |
|-------------------------------------|---|
| Proposal | Sourav Barman, Ikra Chowdhury, Shahriar Ahmed |
| Requirement Analysis, Specification | Sourav Barman, Ikra Chowdhury, Shahriar Ahmed |
| Design | Sourav Barman, Ikra Chowdhury, Shahriar Ahmed |
| Study | Sourav Barman, Ikra Chowdhury, Shahriar Ahmed |
| Coding | Sourav Barman, Ikra Chowdhury, Shahriar Ahmed |
| Final Testing | Sourav Barman, Ikra Chowdhury, Shahriar Ahmed |

Proposed Timeline

| Task | Deadline |
|---------------------------------|-------------------------|
| Proposal Presentation | Within 12 June 2022 |
| Proposal Report | Within 16 June 2022 |
| Requirement Specification | Within 3 July 2022 |
| User Interface Design and Study | Within 16 July 2022 |
| Coding and Algorithm | Within 20 August 2022 |
| Final testing | Within 30 August 2022 |
| Delivery | Within 8 September 2022 |

Time Scale



Deliverables

- Source File
- Documentation of Software Requirements and Specification
- User Manual
- Video Tutorial of the system

Challenges

The main challenges to face during developing this system are:

- Getting in touch with all of the clubs and collecting all of the requirements
- Implementing payment gateway and developing a transaction system for new members recruiting form and membership amount from the members of the club.
- Validate each member and check if he/she is an authentic member of NSTU or not