Software Requirements Specification

for

<Anti-Event-Clash-inator>

Version 1.0 approved

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Revision History

Name	**Date**	**Reason For Changes**	**Version**
Pranava Vedagnya	21/10/2022	Initial draft of SRS document	Version 1.0 draft

Introduction

Purpose

This document is prepared in order to determine a software requirement specification for the events management in a college. In a college, many events may be conducted by many clubs,associations or even within classes. In most of the cases, due to improper planning by clubs or inadequate time management, many events tend to take place on the same day and same time. Inorder to prevent this from happening and helping people to attend most of the events, the anti-clash-inator software is built. To gain an overview about the report, firstly the purpose and scope of this document will be given, and the overall description of the software is followed. In addition to these, system features such as automatic form filling, announcements about upcoming events, information about any clubs or associations etc are briefly explained. In the final part, functional and non-functional requirements will be addressed.

Document Conventions

This document is single-spaced and has 1" margins. The body is a 12point Arial font. Major headers are green, 24point Trebuchet MS font and center aligned. Subheaders use a bolded 24point Arial font. Smaller subheaders are bolded 12point Arial font.

Intended Audience and Reading Suggestions

Typical users including students, various representatives and the college administrators. It is also intended for the developers as well as product managers who will engineer the software. The document is suggested to be read in its entirety, as each section builds up over the information provided in the previous section.

Product Scope

With the ever increasing number of clubs and associations operating on campus, there is a plethora of opportunities for students to learn and grow beyond the classroom. However, these increasing numbers also bring in the problem of staying updated about the events, and also deciding upon which ones to take part in. With the limited time available to a student, making these choices becomes even more crucial. This scenario is a big opportunity for real time applications such as AECI

References

- ReactJS: https://reactjs.org/
- NodeJS: https://nodejs.org/
- InstiApp IIT Bombay: https://www.insti.app/feed
- Google Calendar: https://calendar.google.com

Overall Description

Product Perspective

The Event-Clash-inator is a new self-contained project which allows users to access the details of all the curricular and c-curricular events happening on the campus. They will be able to register for these events, as well as access information about all the clubs and associations operating in the college. With this application, they will be able to schedule their time while in college.

Product Functions

- The system should allow a user to log in using valid credentials.
- The system should allow a user to view all the events taking place in college.
- The system should allow a user to view the information of a club.
- The system should allow a user to register to the events in a single click.
- The system should allow a user to post about events by clubs in the future.
- The system should allow a user to close the registration form after the deadline.

User Classes and Characteristics

There will be four classes of users that would be accessing the system. They are as follows:

1. Student: primary end user of the system that will use it to access the information about events, as well as register for them.
2. Club Representative: The other main user of this system. They will be able to add events to the system, and take care of the registration and scheduling of the events using the platform available to them.
3. Class Representative: These users form a subset of the ‘student’ user category that will have the privilege of adding academics-related events to the system.
4. College Administrator: These users will be able to monitor all activities happening within the platform, so as to ensure that none of the college policies are violated.

Operating Environment

PC or Laptops:

- Windows 7
- Windows 8
- Windows 8.1
- Windows 10
- Mac OS
- Linux
- Virtual Machine(Ubuntu)

Cellphones, Tablets(Android or OS) etc.

○ Design and Implementation Constraints

○ User Documentation

This software is very user-friendly. The users have to login in with their college mail and depending on the permissions given to them, they will be able to view or edit events of a club. If they want to register for the event, they can click on the particular event and register for the first time only, after which their information will be saved and can register for next events within one-click. They can look-out for club recruitments as well as know about any club in the college by clicking on the particular club.

○ Assumptions and Dependencies

In the development of this software, the following assumptions are made:

1. The users will all belong to the same institution, and hence have an institute given email address. This email address will be used by them to login to the system.
2. College administrators, class representatives and club representative roles will be given to individuals that have been chosen for them through various selection processes within the college.

● External Interface Requirements

○ User Interfaces

1. In mobiles/Tablets:
   - Open any of the updated browsers.
   - Go to the Anti-Clash-inator website.
   - Login-in using valid credentials.
   - View all the events conducted by clubs.
   - View the information of the conducting club.
   - Register for the event if interested.
   - If the user is a club representative, then post information and form for registration of the club.
2. In laptops/PC:
   - Go to the Anti-Clash-inator website on any of the browsers.
   - Login-in using valid credentials.
   - View all the events conducted by clubs.
   - View the information of the conducting club.
   - Register for the event if interested.
   - If the user is a club representative, then post information and form for registration of the club.

○

○ Hardware Interfaces

- Any internet-enabled device with a browser application.

○ Software Interfaces

The product will maintain a database of all student accounts and respective club accounts . It will also be connected to the official institute domain so as to authenticate the users.
The major data items entering the system are:

1) User Profile information: This is mainly for the purpose of maintaining the database account for every student on the system and their details for form filling
2) Club Profile and Event information: This data item helps to create profiles for clubs and facilitates creating of events and registrations for the same.
3) We need google authentication API and the software components will share user and event data.

○ Communications Interfaces

The Anti-clash-inator requires a valid college email address for log-in purposes and an internet connection to connect to the website.

• System Features

○ System Feature 1 Simplified registration for events

4.1.1 Description and Priority

After finding a relevant event, the student can then go to the event's page, and begin the registration process. The general details of the student (name, email, branch, year, etc) are made available to the event's organizer directly. Extra, event-specific details are entered by the student and sent to the organiser.High priority feature.

4.1.2 Stimulus/Response Sequences

1. User clicks on register button on the event page
2. User is redirected to the registration page
3. User is shown details about the event
4. User is also asked to fill details, if any, that are required by the organizer
5. After filling details, the user completes the registration
6. User is sent an email confirming the registration, with the details
7. The organizer is informed about the registration via a notification on

the admin panel

4.1.3 Functional Requirements

REQ-1:An event needs to be scheduled by any organization

○ System Feature 2 Creation of An Event

4.2.1 Description and Priority

A club representative can create and post an event, mentioning the relevant details, so as to spread awareness, and also gain registrations. High priority feature.

4.2.2 Stimulus/Response Sequences

1. The user starts the event adding process
2. The user adds the event name, description, and relevant links
3. The user adds the date, registration deadline
4. The user adds the extra registration questions, if any
5. The user adds the relevant audiences, and restricts it to them, if necessary
6. The user adds in a poster, if any
7. The user submits and posts the event

4.2.3 Functional Requirements

REQ-1: User needs to be authenticated club representative
REQ-2: Events in past should not be scheduled open to registrations

○ System Feature 3 Look up events on campus

4.3.1 Description and Priority

A student can access information about every event that has been put up by the club representatives, as well as exams and schedules for the particular year, branch and section put up by the respective class representatives.

4.3.2 Stimulus/Response Sequences

1. Open the web app or the mobile application of the service.

2. Calendar displays events being conducted by clubs on a particular day along with their information and register button.

4.3.3 Functional Requirements

REQ-1: People accessing the class schedules service belong to the institution - either as students, or faculty.

● Other Nonfunctional Requirements

○ Performance Requirements

- A stable internet connection is sufficient.

○ Safety Requirements

Before the user edits the information of a club or changes the timing of an event, the software warns the user before it changes the respective information. Also, if the user does not provide valid credentials, the software asks the user to login using valid credentials.

○ Security Requirements

The AECI requires the user to log in using only college provided credentials. The software will validate the username and password and give access to the users accordingly. As there might be sabotaging of club events by other clubs, the club representative can edit information only about that club and not any others.

○ Software Quality Attributes

Ott platform is a simple one to provide the users with easy to navigate features. Due to its well designed and easy to use interface it can be used by typical users with ease without any prerequisite knowledge.

○ Business Rules

The user profile distribution requires these roles to already exist within the college ecosystem. These roles also need to reflect the change of authority that happens in the college itself. This requirement is crucial to ensure that the system functions smoothly, and is always updated. This needs to be managed by the college administrator.

- ## Other Requirements

The other requirements include permissions from the concerned institute admin authority to connect the domain name with the platform and float the application on the institute servers.

Appendix A: Glossary

AECI : ANTI EVENT CLASH-INATOR