SOFTWARE REQUIREMENTS SPECIFICATION

for

IITI Mangement System

Version 1.0

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1 Introduction

1.1 Purpose

This is very much difficult in the current pandemic situation to maintain a balance between studies and co-curricular activites as students cannot join clubs and cannot horn their skills and also they do not get familiarized with other people especially the first years who have recently joined . These things affects our mental health and it also makes us dumb. So "IIT Indore(IITI) Club Management" is the solution. "IITI Club Management System" is a official website based on management of the clubs and for sharing information for the activites which they are performing and it also provides them a platform to showcase their skills and achievements. The main concept of "IITI Indore Website" is to make the whole procedure of club recruitment online and to provide a specific system with the purpose of sharing details about the club members and the activities performed by the respective clubs.

1.2 Intended Audience and Reading Suggestions

This SRS is for developers, project managers, users and testers. Further the discussion will provide all the internal, external, functional and also non-functional informations about "IITI Club Management WEBSITE".

1.3 Project Scope

"IITI Club Managaement WEBSITE" creates a space for Directors, Teachers, IITI students,non-IITI students and Office Staffs for making an effort to resume the activites of the clubs which have stopped due to the pandemic for example:-Dance,Music,mono-acts,etc...
After logging into the website by IITI Mail id a student has been given a unique id, by using which he/she can reach out to form-fill-up page. It will take his/her personal informations,info about clubs which he/she have joined and info about the clubs for which he has applied.He will be added as a student of that particular program only after being approved by the club head. Also the student can see the recent activites of any club and they can also see who all are already a part of the club. Student profile will contain all his personal informations, past positions, recent positions etc...
Office staff, admins and club Heads can control the website according to the club which they have been assigned . But off course with the permission of Director.
Directors' main work is to assign permission to the admins, club heads and office staff
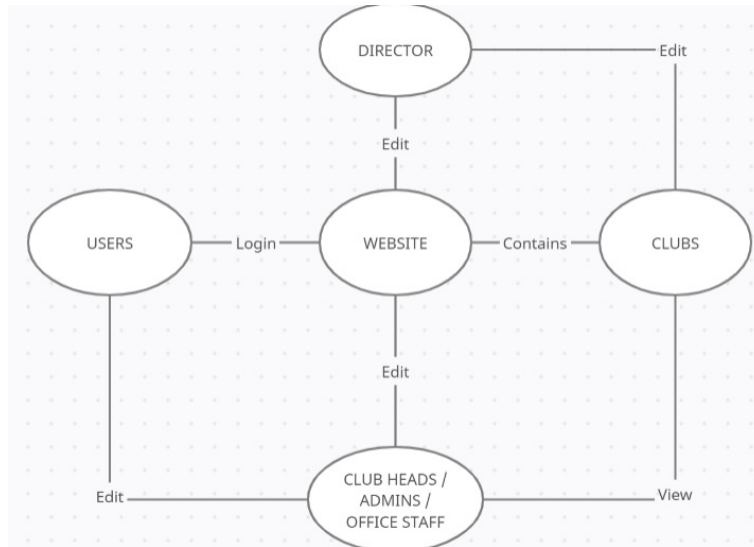
Figure 1.1: Entire work-flow

when they want to create a new club or dissolve any existing club or merging two clubs. He also has all the authorities that are with the admins and the staff. He can also directly post notice to the website, admins or club heads.

Figure 1.1 (Entire work-flow) is the overview of the project. Connection of all the entities are dependable to each others. This gives the simple idea about the functional activities of the project.

Users may login to website and website contains all the information of clubs.

Club Heads, admins can edit the information of clubs.

Director is a super user and can modify or edit any information on website.

So, every entity is interactive with each other.

2 Overall Description

2.1 Product Perspective

"IITI Club Management WEBSITE" is the replacement of the manual process in which hard copy of members and activities of the club is present. The data gets stored in the hard file or papers, this website will store all of those in the database hosted on VPS hosting(Virtual Private Server hosting). Main goal of this project is to minimize the work, make everything possible without being physically present and maximize the result of this Club Management system.

2.2 User Classes and Characteristics

"IITI Club Management WEBSITE" has basically 4-major types of users.

- Staff
    - Director
    - Office Staff except director and teachers
- Students
    - IITI Students
    - Non-IITI Students
    - Club Heads

Staff has 2 types - Director who is a kind of a super user and he controls the other are course teachers who will take the courses. Students are also of 3 different types like IITI students who can actually use this website whereas the non-IITI students can only view the website and the Club Heads can edit the page for their club only and take advantages of the website. Figure(2.1)

2.3 Product Functions

"IITI Club Management WEBSITE" stores all the data of the members of different clubs and also it stores various data of clubs like its activites,achievements, etc... Also every club's data is modifiable if needed. Before using the main function of the software users must be logged in with their IITI mail id.
All users have - Roll No.(Primary Key), Full Name, Mail Id, current Semester,Phone No.,Github,Linkedin, branch.
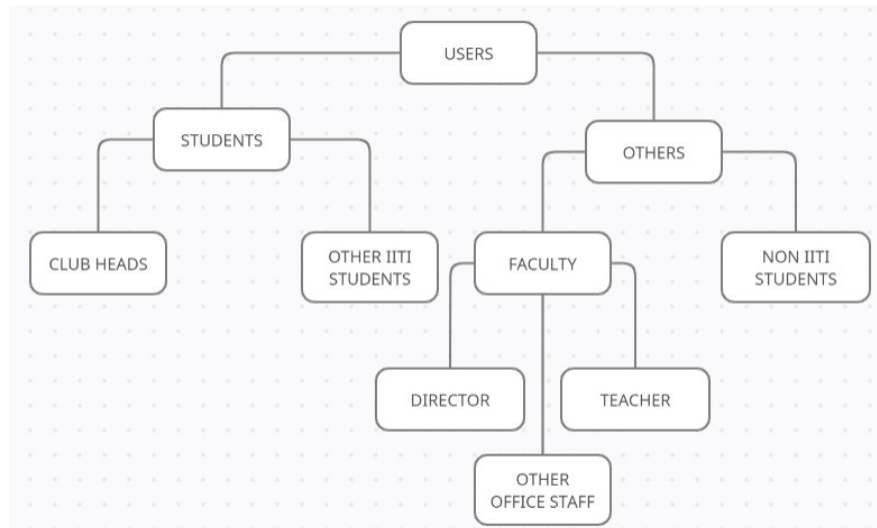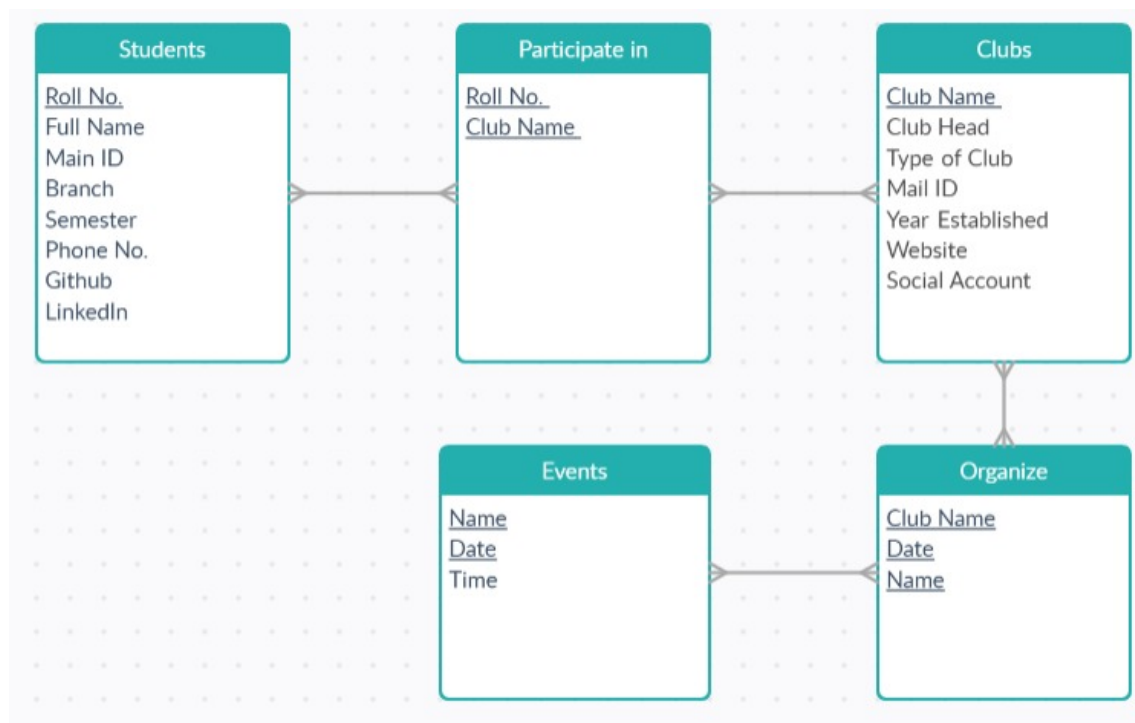
Figure 2.1: type of users

Figure 2.2: Data Flow Diagram

Clubs have information such as club Name(primary key),club head,type of club,mail id,year established,website,social account.These are the information that helps to maintain the database and connect different types of entities in the model as shown in (figure

2.2).
Participate in relationship table contains - Roll No.(primary key),Club Name(primary key).This table depicts the relationship between the students and the clubs
Events table contains the info about the event being conducted by the club- Time of the event(primary key),Name of event,Date of the event.
Organise relationship table contains- club Name(primary key),Name of event,Date of the event.It basically relates the events and the clubs table.

2.4 Operating Environment

The website will be operate in any Operating Environment - Mac, Windows, Linux etc.

2.5 Design

User(Non-IITI students) activities have 2 major features -

- Log in.

- View description, achievements, events and members of all clubs.

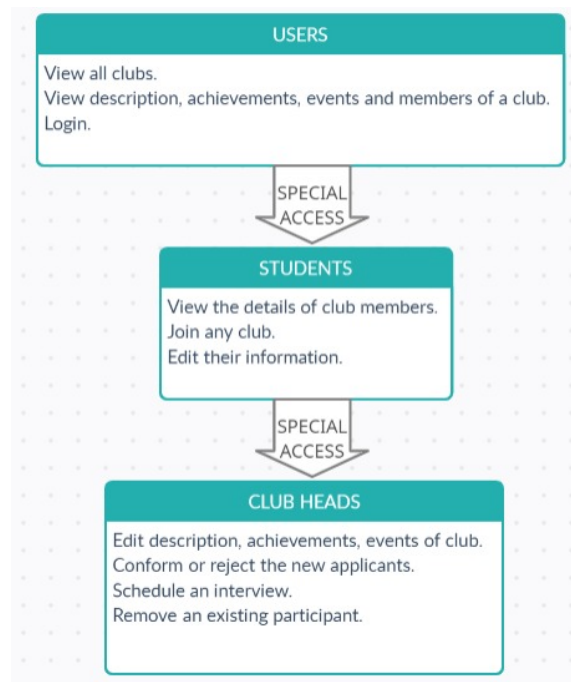Every student profile contains his/her personal information.

Figure 2.3: User Activities

Student activities have 3 steps -

- View the details of club members

- Apply for any club

- Edit their info

After verification, student gets recruited in the clubs . Then he/she can see his name in the club's list of members (i.e he/she will be added to the Database of the clubs).

Club Heads have many features -

- can update the information, activites and events of their club.

- can review the application of other students and also they can schedule a meeting with the applicant.

- he/she has all the features of above users.

Directors also have many features -

- can update the information, activites and events of all clubs.

- He is a kind of super user who has all the features of above users.

3 System Features

"IITI Club Management" system is a database storing and manipulating web software. So the main art of this product is to enter data of different clubs and students and change them as needed.

3.1 Description and Priority

"IITI Club Management" system has features that are main and also some are sub. But all the feature is necessary for this software.
The features with priority up to down -

1. Login : The first basic step to authorize a IITI student.

2. Edit : A student can edit his/her information and a club head can edit club's information.

3. Approve/Reject : A club head can approve/reject a student who have applied for the club.

4. Schedule Interview : Club head can schedule an interview with students applying to the club.

5. UN-REGISTER : Delete all the information of a student from the database.

3.2 Functional Requirements

"IITI Club Management" website is being build on Python+Flask, JavaScript, CSS, HTML and MongoDB.
Back-End - Python+Flask
Font-End - JavaScript, CSS, HTML.
Database - MongoDB.

4 Other Nonfunctional Requirements

4.1 Performance Requirements

"IITI Club Management website" will be used for online management of clubs and members. This website uses Python+Flask, MongoDB, JS, CSS.

4.2 Security Requirements

No one outside IIT Indore can login to the website. One particular user of a certain access only can perform his/her particular actions.

4.3 Software Quality Attributes

In the development phase also testing and conferences of users is been continued. So that the quality of the software is been maintained and all the requirements are been fulfilled.
Database, logical and also UI test is required.

4.4 Business Rules

"IITI Club Management" website is for managing clubs and students and online recruitment of students.
Basically save working time and pressure.

5 Other Requirements

"IITI Club Management" website needs maintenance as it is a long process software. It will need re-factoring and further the requirements can be changed as the information is changing frequently.