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## **Software Requirement Specifications**

### **College Fest Database Problem Statement:**

- This database includes the detail about college fest of any college.
- It maps student details to his/her participation in any fest activities.
- It has separate details about winners and prizes.
- This system also includes detail about teams formed during the fest.

### **Description:**

The college fest database contains the information about events, event co-ordinators, event participants, results. It also contains the information for the schedule of events over the span of the event.

### **Problem Scenario:**

The handling of event registration data and teams is tough if done using pen and paper. Here comes the database management system to the rescue as it makes the data storage and accessing really simple and convenient.

### **Definition:**

Normally the registration process for college fests is done on papers and it consumes a lot of time and effort for completing and managing these documents. And to eliminate this extra effort we have designed a database management system.

**Features of the database:**

- View the events hosted during the span of the college fest
- Registration for the events
  - Team based registration
  - Solo registration
- Event registration committee details
- Event discipline committee details
- Generating a access code for the students who register for any event

**Objective:**

The objective of this approach is to simplify the registration process for the college events and make it easier to access, manage, and view the required data.

This database helps check if an event committee or event discipline committee is busy on an event during the same time slot.

**Research plan:**

- Reading about how events are managed at a large scale
- Reading about the team to be created for different management.
- Ground reality about the official documents for the event location.
- Researching about the permission to be taken from higher authorities.
- To understand the concept of event management
- To study the different types of events

- To analyse the role of creativity in our event process.

### **Questionnaire:**

- Choose the proffered themes for your college fest
- Select 16 events of your choice.
- Choose between rock band and DJ.
- Choose your DJ;
- Choose your band
- What would you like to improve from the previous fest?
- How would like to rate our previous fest.

### **Requirements Collection Phase:**

- Functional Requirements
- Non-functional requirements

### **Functional requirements:**

- Student registration
- Student login
- Viewing the events and time slots for each event
- Registration for an event
- Issuing a registration number to the students

### **Non-functional requirements:**

- Allow event registrations 1 day before the event.
- Forbid event registrations if the event date and time has passed.
- Send a conformation email to the students on registration with the registration id.

- Show the list of registered events to the students in a dashboard

**Reliability of the system:** The system should be reliable and a backup should be maintained at regular intervals and the database should be rolled back to the previous state in case of any failure.

**Maintainability of the system:** The database code and queries should be maintainable and any complex functionality should be divided into smaller modules.

**Accessibility of the system:** The application will be web based and be accessible through an internet connected device at all times.

**Security of the system:** The application must be secure against common SQL injection and XSS attacks. The user data should be encrypted and stored in a secure way.

**Portability of the system:** The application must be portable as it might get accessed through different devices and browsers.

#### **Fact finding techniques:**

- Background reading
- Interviews
- Observations
- Questionnaires

#### **1. Background reading:**

The college fest database system is designed to solve the general requirements for registering, maintaining and accessing the student data who have registered for an event. The objective is to design an application that will facilitate the student registration process and allow the students to register for the events of their liking. The system will also show if there are any overlapping events and notify the students about those events. On successful registration a

registration number will be generated which will be emailed to the student and the event management committee. The system will allow the students to register for any event only till 1 day before the event.

The event is categorised in local event, engendering pride in the community, strengthening a feeling of belonging and creating a sense of place.

The event will be a destination event because; people from different colleges will be there for enjoying the fest.

The permissions and the documentation process are to be done from a verified police officer for the DJ and band authorities. An accommodation committee will be doing all the work related to accommodation of the guest and the notable artist which are going to perform.

We need to create a database table for the arrival time of the artist and assign a dedicate team to a separate artist for the accommodation and services.

A total number of seats to be kept in the front of the stage are to be calculated and kept with the help of staff. The seats are calculated by the amount of registration and the google form which we circulated.

The security committee will decide how much security is need in every event for the security of students and welfare of the event.

The students' personal data may be collected at the time of registering for the event like:

- Course
- Student id
- Gender

The event is organised in such a planned structure that a person can take part in all the events at once.

## **2. Interview Plan**

**DA-IICT College Fest:** Interview Plan

**System:** DA-IICT College Fest

**Project Reference:**

**Participants:** Aditya Kumar (202212046)

Saheb Singh (202212071)

**Date:** 27-August-2022      **Time:** 15:00

**Duration:** 1 Hour      **Place:** DA-IICT General Lab

**Purpose of Interview:** Initial meeting to identify the requirements for creating a database for college fest.

**Agenda:**

- Number of events and types of events per day.
- Approx. number of participants in each event.
- Time slots and day for the events.
- Media team to cover the photography, videography, and social media promotions.
- Initial ideas to discuss during the meeting.
- Follow up actions on the meeting discussions.

**Documents to be brought to the interview:**

- Rough plan of the event and types of events.
- Description of the events.
- Approx. number of events and participants.

### **3. Interview Summary**

#### **DA-IICT College Fest: Interview Summary**

**System:** DA-IICT College Fest

#### **Project Reference:**

**Participants:** Aditya Kumar (202212046)

Saheb Singh (202212071)

**Date:** 27-August-2022      **Time:** 15:00

**Duration:** 1 Hour      **Place:** DA-IICT General Lab

#### **Purpose of Interview:**

Initial meeting to identify the problems and requirements regarding security at the college fest.

- Fest duration [number of days].
- Number of events per day.
- Types of events.
- Number of approx. participants.
- Time slot for the events.
- Number of event co-ordinator.
- Creating an advertisement committee.
- Opening ceremony/ closing ceremony of the event.
- Various prize distributions for the winners in the event.
- Initializing of the security committee and event committee.
- Further discussion needed when more information is available. (arrange follow up meeting with Saheb and Aditya)

#### **4. Questionnaire**

##### **DA-IICT – Survey for DA-IICT college fest.**

Please tick your answers for the following questions.

- Your Name
- Gender
  - Male
  - Female
- Age Group
  - 15 to 18 Years
  - 18 to 25 Years
  - 25+ Year
- Are you planning to attend the fest?
  - Yes
  - No
- Email ID
- ID Number
- Choose your preferable theme.
  - Cultural
  - Back to the 90s
  - Halloween
  - Hawaii Magic
- Select 16 events of your choice
  - LAN Gaming
  - Robo Game



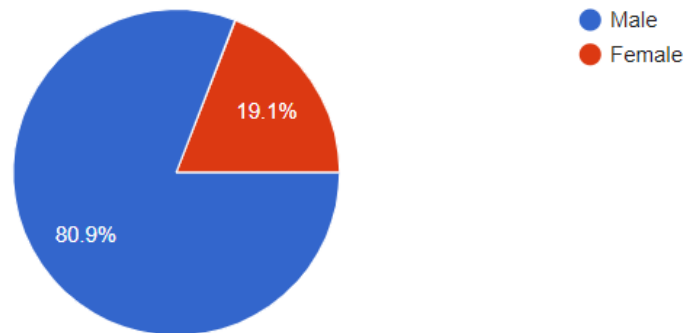
- Poetry writing and recitation
- Face painting
- Debugging
- Marketing and Selling
- Story writing competition
- Short film making
- Young scientist and innovation
- Handcrafts
- Cultural competition
- Fashion show
- Culinary contest
- Debate
- Murder investigation
- Laser tag
- Rubix cube competition
- Treasure hunt
- Mimicry competition
- Photography
- Choose between Rock band and DJ
  - Rock Band
  - DJ
- Choose your DJ
  - David Guetta
  - Martin Garrix

- Nucleya
- DJ Man-Dee
- Choose your band
  - The Local Train
  - Indian Ocean
  - The Byrds
  - Testo Sisters
- What would you like to improve from the previous fest?
- How would you rate our previous fest?

Questionnaire Results:

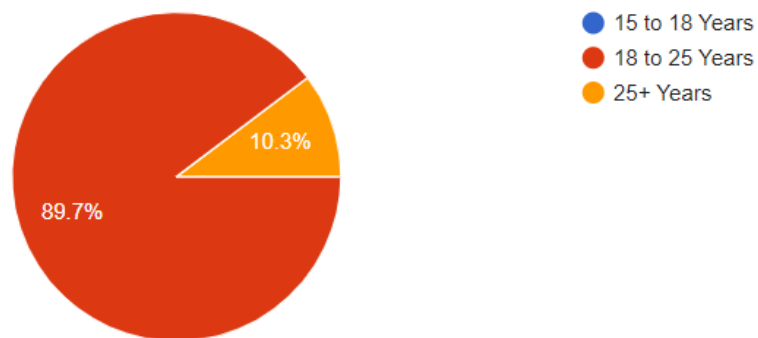
## Gender

68 responses



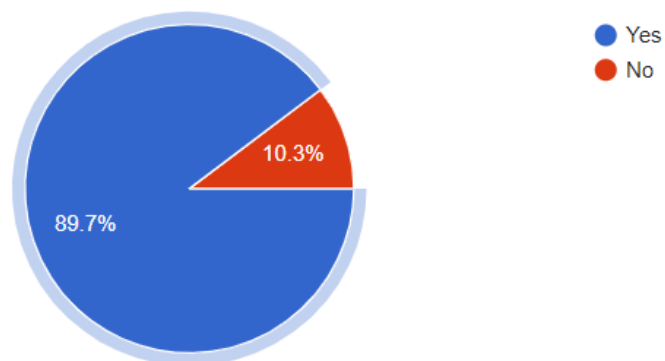
## Age Group

68 responses



## Are you planning to attend the college fest?

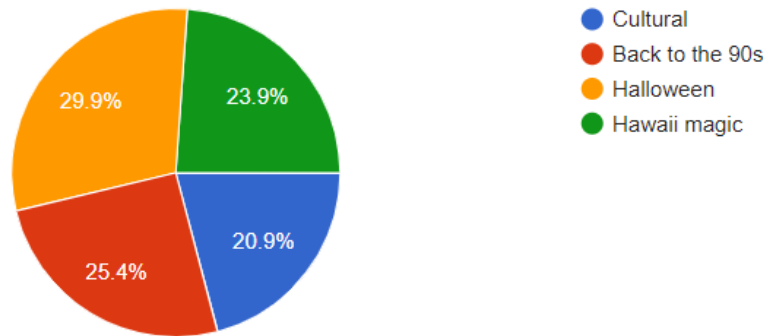
68 responses



## Survey

### Choose your preferable theme for your college fest

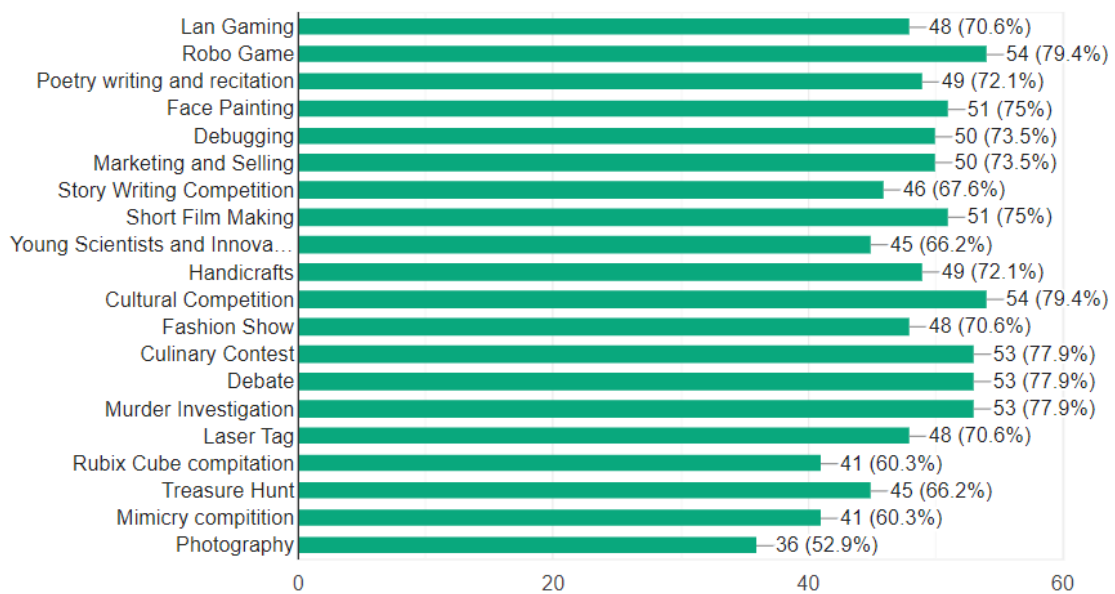
67 responses



### Select 16 events of your choice out of 20.

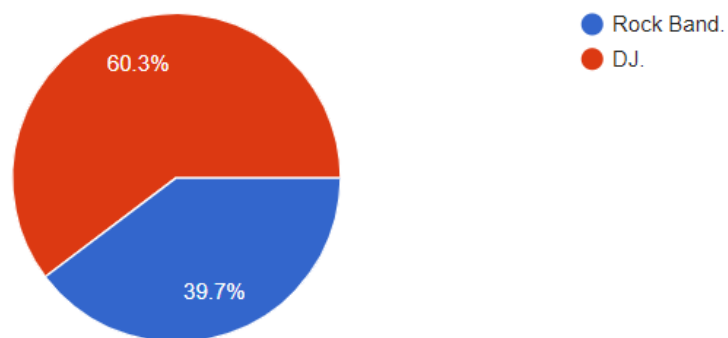
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68 responses



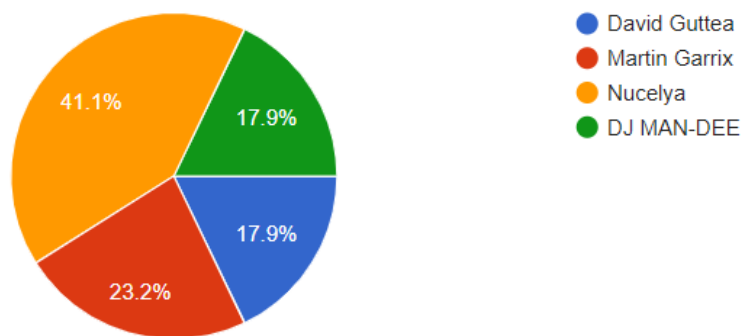
### Choose between RockBand or DJ:

68 responses



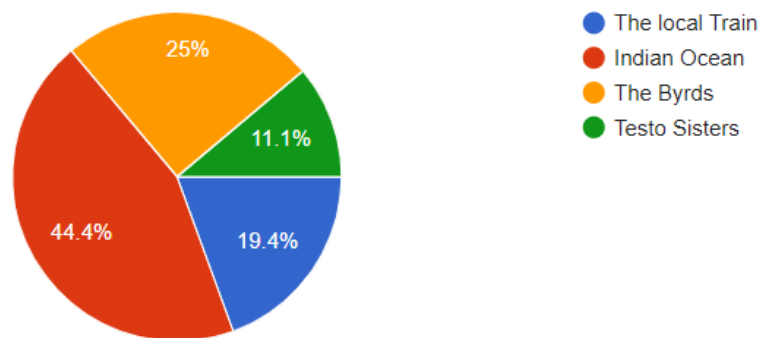
### Choose your DJ

56 responses



## Choose Your Band.

36 responses



## How would like to rate our previous fest?

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65 responses

