

MES COLLEGE OF ENGINEERING-KUTTIPPURAM
DEPARTMENT OF COMPUTER APPLICATIONS
20MCA246 – MAIN PROJECT

PRO FORMA FOR THE APPROVAL OF THE FINAL SEMESTER PROJECT

(Note: All entries of the pro forma of approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Project Proposal Number : _____ <i>(Filled by the Department)</i></div> <div style="border: 1px solid black; padding: 5px;">E-Mail : _____ Mobile No. : _____</div>	<div style="border: 1px solid black; padding: 5px;">Academic Year : _____ Year of Admission : _____ Admission Number : _____ Roll Number : _____ Register Number : _____</div>
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1. Name of the Student (in BLOCK LETTERS) : _____
2. Name of the Organization : _____
3. Address of the Organization : _____
Telephone No. : _____ Company E-Mail : _____
4. Name of the External Guide : _____
Mobile No. : _____ E-Mail : _____
5. Title of the Project : _____
6. Name of the Guide : _____
(Internal-Department)

Date :

Signature of the Student:

Comments of The Project Guide

Initial Submission	:		
Approval Status	:	Approved / Not Approved	Dated Signature of Guide
First Review	:		HOD
Second Review	:		
Third Review	:		

Comments of The Project Coordinator

Initial Submission:

First Review :

Second Review:

Third Review:

Dated Signature of Project Coordinator:

FEST HUB

Introduction

In today's academic environment, technical fests have become an integral part of college activities, providing students with opportunities to gain knowledge and showcase their skills through participation. This project focuses on the management and organization of events in a college fest, such as the "C-Zone Fest," where multiple colleges are invited to compete. The system streamlines college fest management by enabling online scheduling of events and assigning coordinators for various activities. Event Organizers can upload event-related information, including schedules, lists, and judge locations, which can be viewed by students and participants online.

Event organizers can create and manage event schedules through a well-designed web interface, assigning coordinators during the scheduling process. Students can register for their preferred events through the platform. Only event organizers authorized to upload event content to the site. The primary objective of this project is to simplify event management by providing a web-based interface for admin, event organizers colleges, judges, staff and students.

The Admin module includes multiple functionalities such as verifying college details, event organizers and oversee the result of overall events. The Event Organizer module includes multiple functionalities, such as verifying college details to initiate or create events, adding event types, and managing judges. The Event Organizer can view student registrations for specific events and oversee the results of all programs held during the fest. Additionally, the Event Organizer can monitor student participation across multiple rounds, mark winners for each round, and generate final results based on cumulative scores. The system also allows the admin to display the standings of participants, including the first, second, and third positions for each event.

The Judge module enables judges to handle event-related activities such as assigning grade points and prize points. Judges can view participant lists, evaluate performances, and contribute to the determination of winners for each round.

The Student interface allows participants to view event details, register for programs of their choice. Students can track all their registered events and receive notifications five minutes before their performance. The results of all programs are securely added to a blockchain to ensure data integrity and prevent tampering. This system provides a robust, transparent, and user-friendly solution for managing college fest events efficiently while enhancing the overall experience for administrators, judges, and participants.

Objectives

The primary objective of the College Fest Management System is to provide a centralized, web-based platform for managing and organizing college fest events efficiently, ensuring smooth coordination among administrators, judges, coordinators, and participants. This system aims to streamline event organization by enabling event organizers to create and manage event schedules online, assign student coordinators, and update event-related information seamlessly. It facilitates participant engagement by allowing students to browse, register, and participate in events of their choice while receiving timely notifications about their performances and schedules.

To ensure transparency and security, the system leverages blockchain technology to store and secure event outcomes, preventing tampering and ensuring data integrity. Judges are empowered with tools to evaluate participants, assign grade points, and determine winners effectively for each round of the competition. Administrators are provided comprehensive control over the fest, including verifying college details, managing event types, overseeing student registrations, and generating final results.

The system also improves communication by providing a user-friendly interface where all stakeholders, including colleges, judges, and participants, can access updated event details, schedules, and results. It fosters fair competition by tracking participant performance across multiple rounds and determining winners based on cumulative scores. Additionally, it supports fee management by allowing students to pay activity fees online, simplifying financial transactions for event participation. By making event details and results accessible from anywhere, this system promotes accessibility while enhancing the overall experience of organizing and participating in college fest events.

Problem Definition

In the current scenario, managing college fest events is a challenging and time-consuming process due to the lack of a centralized and streamlined system. Event organizers often face difficulties in creating schedules, assigning coordinators, and managing event-related information efficiently. Communication between administrators, judges, participants, and other stakeholders is often unstructured, leading to delays and confusion. Moreover, ensuring transparency and integrity in event outcomes is a significant concern, as manual processes are prone to errors and tampering.

Participants face challenges in accessing event details, registering for their preferred events, and receiving timely updates about their schedules and performances. Similarly, judges require a reliable mechanism to evaluate participants, assign scores, and determine winners accurately. Administrators need an efficient way to oversee the entire event management process, including verifying college details, managing student registrations, monitoring multiple rounds, and generating results.

The absence of secure and automated systems for storing event results increases the risk of data manipulation, undermining the credibility of the competition. Furthermore, the lack of an integrated fee management system adds complexity to the financial aspects of event participation. To address these challenges, a robust web-based platform is required to centralize event management, enhance communication, ensure transparency, and simplify the overall process for all stakeholders involved in the college fest.

Basic Functionalities

EVENT ORGANIZER

- **Login:** Organizer can securely log in to the system.
- **Verify Colleges:** Approve or verify registered colleges to participate in the fest.
- **Participants List:** View and manage the list of participants for each program.
- **Schedule Time and Location of Judges:** Assign and update event schedules and judge locations.
- **View Review Details:** Access and review feedback or comments submitted by students.
- **Point Table:** View, update, and manage the cumulative point table for all events.

COLLEGE

- **Registration:** Colleges can register themselves in the system to participate.
- **Login:** Secure access to their dashboard after registration.
- **Add and Manage Students:** Register their students as participants for various programs.
- **Item Allocation:** Allocate resources or items required for participation.
- **View Schedule:** Check the schedule of programs and judge locations.
- **View Result:** Access the results and standings for all programs.
- **Point Table:** View the overall points scored by their students across programs.

STUDENT

- **Login:** Students can log in using their credentials.
- **View Schedules:** Check the schedule of programs they have registered for.
- **Receive Notification:** Receive notification before 5 minutes of their program.
- **View Result:** Access their performance results for the programs.
- **Send Reviews:** Submit feedback or reviews about events or their experience.
- **Point Table:** View the points scored by themselves or their college.

STAFF

- **Login:** Staff can log in using their credentials.
- **Manage :** Manage Students and Requests.
- **Send Notification:** Send Notification to students
- **View Result :** Access the results of the programs

JUDGE

- **Login:** Judge can log in using their credentials.
- **Upload :** Upload the result of the programs.

Tools / Platform, Hardware and Software Requirements:

Hardware Specification

The selection of hardware is very important in the existence and proper working of any of the software. When selecting hardware, the size and capacity requirements are also important. The hardware must suit all application developments.

- Processor : i3 or above.
- System Bus : 32 Bit or 64 Bit
- RAM : 4GB or Above
- HDD : 500 GB or Above
- Monitor : 14”LCD or Above
- Keyboard : 108 Keys
- Mouse : Any Type of mouse
- Mobile : Android supported mobile phone

Software specification

One of the most difficult tasks is selecting software, once the system requirement is find out then we have to determine whether a particular software package fits for those system requirements. This section summarizes the application requirement.

- Operating System : Windows 7or above.
- Technologies used : Android
- Front end : Html,css,bootstrap,JS
- Back End : Python-Django or Dart-Flutter
- Database : Mysql
- IDE : PyCharm community , Android studio ,
PyCharm professional, vs code
- Web browser : Chrome,Explorer,Edge...etc

REFERENCES:

- ☐ Reverse Engineering Pedagogy To Promote Confidence and Motivation in Programming Among Honors College Students
- ☐ The perception of cultural value towards college students: A case study in higher education