College Event Platform

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ABSTRACT :

In this paper, a web based event management platform has been proposed for managing all the events which take place in college. The platform manages searching, registration and participation very easily. This is built using React. Powered by components.js for the front-end, Flask on the back end and MySQL to manage the database, it features 3D CSS effects that provide a unique look and feel. The platform allows for event on a multi-department basis as well— bringing in an integrated environment where different spaces to play like coding competitions, debates, technical paper presentations etc., are organized under one roof. It even has search filters for each departments, its a user experience means. The aim is to improve attendance at events, reduce administrative work and be the ultimate event management solution in educational institutions.

Keywords: Event Management, College Platform, MySQL Database, Flask Framework, React.js, Search Functionality, Department Filters, 3D CSS.

INTRODUCTION :

Organizing activities in colleges typically involves complex techniques which include guide registration, tracking participation, and event advertising, often main to inefficiencies and facts loss. A need exists for a digital platform that automates and simplifies event control procedures. This paper discusses the improvement of a College Event Platform, which addresses common troubles associated with occasion coordination inside academic institutions. The platform enables multi-department event management, supplying a centralized hub in which students can search for events, and consider event information. It integrates cutting-edge net technologies like React.Js and Flask, coupled with a MySQL database, to offer a easy and dynamic revel in for each organizers and members.

1.1. Objectives

- To design an intuitive and user-pleasant web interface for occasion organizers and participants, facilitating seamless navigation and interaction.
- To implement robust backend functionalities, together with event advent, scheduling, registration, and communique functions, making sure efficientoccasion control.
- To integrate social networking elements that sell community engagement, collaboration, and sharing amongst college students, school, and team ofworkers.
- To optimize the platform for cell responsiveness, allowing get right of entry to and participation throughout a lot of devices and display sizes.Firstpoint
- Second point
- And so on

LITERATURE REVIEW :

1.2. Title: "Design and Implementation of a Web-Based Event Management System for Colleges"

Authors: J. Zhang, Q. LiYear: 2016
Abstract: This paper presents the design and implementation of a web-based totally event control machine tailored for college environments. It probable discusses capabilities, structure, and functionalities applicable to centralized occasion coordination.

1.3. Title: "A Framework for the Design of Event Management Systems in Universities"

Authors: M. K. Khalid, M. A. SalamYear: 2014
Abstract: This paper may provide insights into the conceptual framework and concerns important for designing event management systems especially targeted at college settings.

1.4. Title: "Development and Implementation of a Comprehensive Event Management System for Educational Institutions"

Authors: S. K. Das, A. B. ChoudhuryYear: 2017
Abstract: This paper could provide sensible insights into the development and deployment of an event control device catering to the wishes of tutorial establishments, potentially which include schools.

1.5. Title: "A Collaborative Event Management System for Educational Institutions"

Authors: G. Cheng, Y. ZhangYear: 2015
Abstract: This paper might explore the collaborative factors of occasion control structures, which can be noticeably relevant for centralized platforms serving instructional institutions such as faculties.

1.6. Title: "Cloud-Based Event Management System for University Events"

Authors: Y. Wang, Z. ZhangYear: 2018
Abstract: This paper should offer insights into leveraging cloud technologies for constructing scalable and on hand event management systems tailor-made for university environments, probably aligning with the idea of centralization.

METHODOLOGY :

1.7. ARCHITECTURE OVERVIEW:

1.7.1. The College Event Platform consists of the following key components: Front-End: Built with React.Js to create atremendously responsive and interactive interface for customers.

1.7.2. Back-End: Developed the usage of Flask, supplying a lightweight, scalable backend service that handles all occasiongood judgment and consumer data.

1.7.3. Database: MySQL is used to store event info, consumer registrations, and branch information in structured tables,enabling efficient queries and records retrieval.

1.8. MODULES:

1.8.1. Event Registration: A shape-based totally module wherein students can register for activities. Each occasion is tiedto a department, and pupil info are saved inside the database.

1.8.2. Event Search and Filtering: Allows customers to look for occasions throughout departments using key phrases like"code," "debate," or "presentation."

1.8.3. Department-Specific Event Display: Users can clear out activities through branch or view all occasions fromexclusive departments whilst wanted.

1.8.4. Database Design:

The platform consists of multiple tables, including:

cse_events, mech_events, ece_events, etc., in which occasions particular to departments are stored.
Columns which includes name, regulations, coordinator_name, coordinator_number, and event_details preserve occasion-precise statistics. A unique identifier is furnished for every event to manage registrations and provide branch-unique listings.

1.9. KEY FEATURES:

Search Functionality: The platform makes use of an clever key-word-based search that assessments event names towards person input. 3D CSS Effects: The user interface is more desirable with 3-D results for an enticing experience, particularly on event playing cards. Responsive Design: Media queries ensure that the platform is out there on all gadgets, from computing device to cellular, with no loss in capability.

IMPLEMENTATION :

1.10.　Front-End:

The person interface is created the use of React.Js, offering components together with a seek bar, event filters, and occasion cards. Advanced CSS is applied to offer the platform a cutting-edge appearance. Interactive 3D consequences are used at the event playing cards to offer a dynamic and tasty person experience. The page format is responsive, ensuring that the platform works nicely on monitors of all sizes.

1.11.　Back-End:

Flask serves because the again-quit framework, coping with requests from the the front-quit. It is responsible for interacting with the MySQL database to retrieve occasion records, user registrations, and branch filters. The again-cease also handles search queries, returning filtered consequences based on department and key phrases.

1.12.　Search Functionality:

The seek feature scans occasion names from multiple department tables (cse_events, mech_events, and so on.) for suits with consumer-enter key phrases. Once fits are discovered, they're displayed at the side of department names and event details.

1.13.　3-d Effects:

Advanced CSS techniques are hired to give the event playing cards a three-D look and feel. For instance, soaring over an event card reasons it to "come out" slightly, giving the consumer the sensation of interacting with physical items. This impact is also implemented to buttons and interactive factors to hold consistency.

RESULT AND DISCUSSION :

The platform turned into examined throughout multiple events and departments, showing great improvements in user engagement and occasion registrations compared to manual processes. It allowed students to fast locate events based on their pastimes, resulting in multiplied participation. Feedback from occasion coordinators indicated that the platform decreased their workload through automating occasion tracking and simplifying registration methods. Additionally, the platform's 3-D consequences and interactive elements obtained tremendous comments for enhancing the general person experience.

CONCLUSION :

The College Event Platform is a robust answer for handling multi-department occasions within academic establishments. It offers a centralized device for students and organizers, imparting advanced occasion discovery and participation. With its dynamic search capability, interactive UI, and three-D outcomes, the platform complements the event control procedure and creates a seamless revel in for users.

FUTURE SCOPE :

- Future paintings can recognition on incorporating extra functions inclusive of:
- AI-based occasion hints: Recommending occasions to college students based totally on their beyond participation.
- Social Media Integration: Allowing event info to be shared easily on social systems.
- Event Analytics: Providing occasion coordinators with insights on participation traits and occasion fulfillment metrics.

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