

UniConnect: Unleashing the Excitement of University Gathering

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ABSTRACT

UniConnect is an interactive web portal developed to serve as a centralized platform for sharing non-academic announcements related to various events within the university. The platform offers a variety of content, including cultural festivals, festivals, sports and games, competitions, and more. It has a wealth of information, such as social gatherings, cultural showcases, performing arts, health and wellness promotion initiatives, announcements from clubs and organizations various, updates on alumni news and events, publications highlighting university achievements, student art exhibitions, charity work, fundraising efforts and initiatives, tours and orientation programs, anniversaries, off-campus events, networking and networking opportunities, as well as Club-sponsored activities Implementation by the Technical Department. By leveraging HTML, CSS, JavaScript, MySQL, and the Django framework, this website provides a seamless user experience and many benefits to the academic community. UniConnect offers a number of benefits, including centralized access to information, improved communication, increased engagement, efficient event organization, personalized user experience, integration with social media platforms, archive past events, and enhance collaboration opportunities between student clubs and organizations. By harnessing the power of emerging technologies and combining them with a user-friendly interface, UniConnect aims to unleash the enthusiasm of university gatherings, promoting a vibrant culture on campus and facilitate seamless interactions within the university community.

Keywords-Python Django, Admin Login, Student Login.

1. INTRODUCTION

There should be a platform where individuals may connect and exchange knowledge in today's modern institutions. There is sometimes a large gap between different sections of a college, and students do not receive information on time. A unified portal should be established where students may access information and alerts. This platform is provided by Online Notice Board, a service. Teachers will be able to register on this website and will receive additional benefits. They can

upload notices and information, which will be sorted by department on our website. Teachers' information can be viewed by students. The teacher's account will be managed through an admin panel. It will be possible to delete people, erase their postings, add new users, and so forth.

2. MODULES

Super Admin: For the time being, register in the application and use comparable credentials for login. Super Admin has access to classifications such as publish another event, create an event timetable, and upload information. The announcements and event information can be added, deleted, or updated by the Super Admin. Super Admin has access to all registered student and staff information.

Student Registration and Login: For the time being, sign up for the application and use comparable endorsement for login. Students may view event details, upcoming event schedules, register for upcoming events, search for events by department, and view prior event performances.

3. LITERATURE SURVEY

3.1. Display Message on Notice Board using GSM.[1]

Author: Foram Kamdar, Anubhav Malhotra and Prithish Mahadik.

This article is about an SMS-based notice board that uses the widely utilized GSM to enable communication of displaying messages on the notice board via the user's mobile phone. Its operation is based on an ATMEGA32 microcontroller coded in assembly language.

Limitations:

1. SMS Based system.
2. Unable to display Audio and Video.
3. No Scheduling.

3.2. Design and Implementation of Digital Notice Board Using Power Line Communication. [2]

Author:R.Pudumai Nayagi,R Seethalakshmi.

One such use proposed in the study is for automating an educational institution by replacing manual notice boards or circulars with digital notice boards. Frequent updating is simple with a centralized database. The technology sends data to a particular node or broadcasts to several power line nodes using existing power lines. Each receiver is allocated an address, and it responds to the proper orders.

Limitations:

1. Characters are few in number.
2. Audio and video cannot be shown.
3. Power Line Communication Is Required.

4. EXISTING SYSTEM

- The current notice board system employs physical bulletin boards in institutions.
- Manual notice boards are used to display vital announcements.
- Physical posting of notifications is required, resulting in inefficiencies.
- The use of resources such as paper, ink, and personnel is increased.
- Demands for more convenience, real-time updates, and interactive communication.
- The requirement for a simplified and computerized solution.

5. PROBLEM STATEMENT

The problem is that outmodedbulletin boards don't work well in today's digital world. We need a better online noticeboard system to make communication and sharing of information easier.

6. PROPOSED SYSTEM

Notice boards, which are frequently located in public spaces, are useful for mass communication. "Online Notice Board" project aims to enhance notice sharing. Web application offering current articles, notices, and info to users, especially campus or department members. Designed to address existing system limits while still providing simple access and flexibility. The proposed system can be executed using Python Django with SQLite3. Django is a widely embraced Python web framework, celebrated for its user-friendly nature, adaptability, and minimalistic design. This makes it a popular pick for various web development ventures. Pairing Django with SQLite is a popular and uncomplicated method for creating web applications with a lightweight database. SQLite, being self contained

and file-based, is a serverless database system frequently employed in smaller web applications, prototypes, and projects where straightforward setup and ease of use are paramount. The device is designed with a strong focus on user-friendliness, benefiting both administrators and students.

Dataflow diagram for Admin login is shown below.

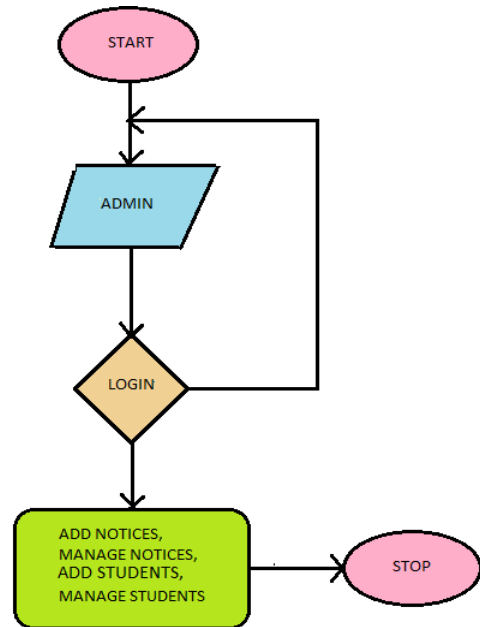


Fig-1: Data Flow Diagram of Admin Login

Administrators can access the system by using their unique user ID and Password. They add Notices, manage Notices, manage Students, manage Staff.

The dataflow diagram for Students is shown below

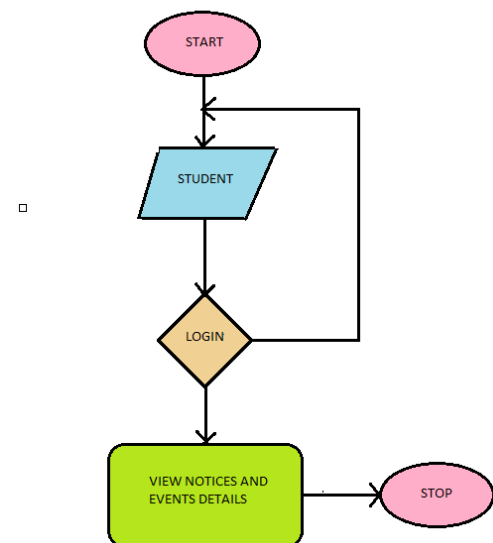


Fig-2:Data Flow Diagram of Student Login

Students can login through their email id and password. Student can view notices details and event details.

7. SYSTEM ARCHITECTURE

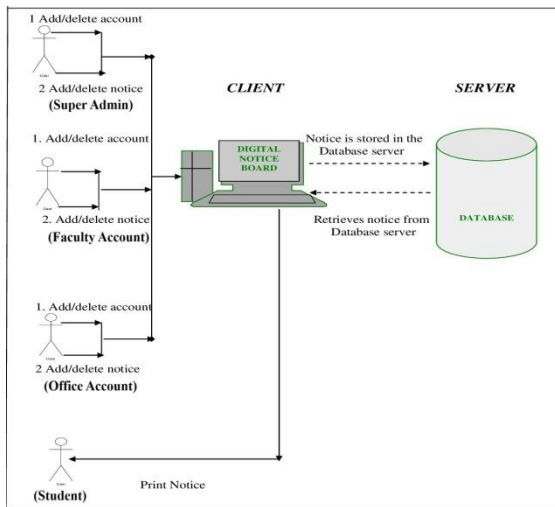


Fig. 6. Proposed System Architecture for Digital Notice Board (DNB)

Fig-3: System Architecture

8. METHODOLOGY

- Users can register, including Super admins, teachers, department admins, and students.
- Admin can post notices categorized by departments.
- This categorization grants students easy access to a diverse range of event-related information.
- Real-time push notifications keep users informed about new notices and events.
- The platform features a user-friendly interface for effortless navigation and notice/file downloading.
- Notices and files are efficiently stored and retrieved from the database.
- User authentication and roles are securely managed to ensure data integrity.
- An admin panel provides control over user accounts and their posted content.
- SMS integration enhances communication capabilities.

9. RESULTS AND DISCUSSION

1. Home page

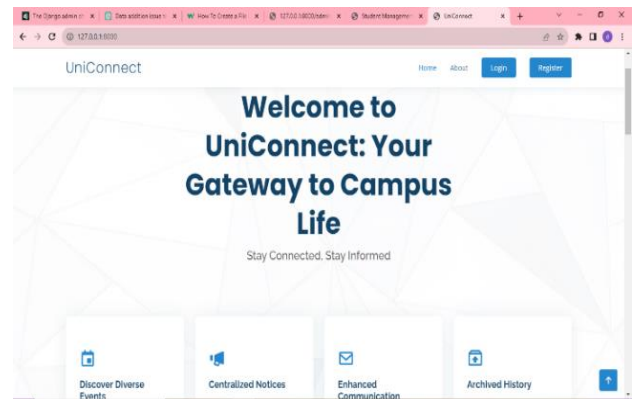


Fig-4: Home page

The Homepage of the website consists of Admin Login, Student login, Contact Information and About.

2. Admin Login

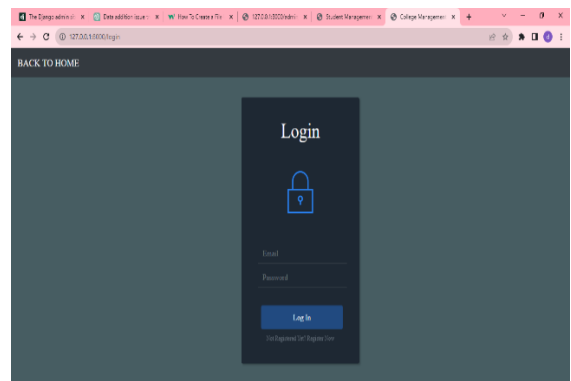


Fig-5: Admin Login

The admin has to login using their unique credentials, After login the following pages appears.

6. Dashboard

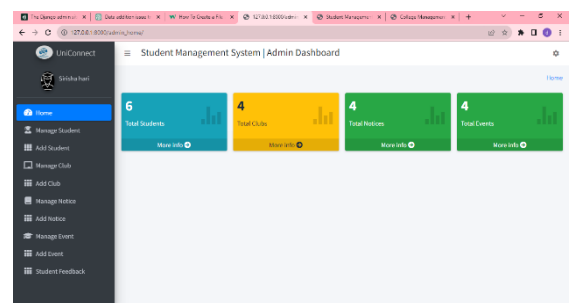


Fig-6: Admin Dashboard

Upon a successful login, the dashboard page displays the students, events, notices and clubs.

7. Add and Manage Students

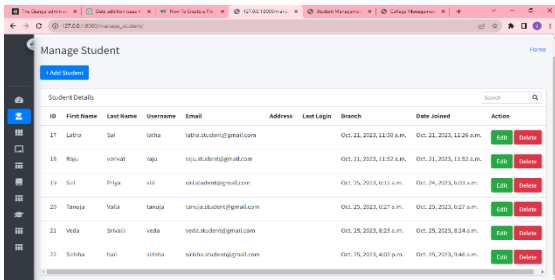


Fig-7: Add and Manage Students

Admin can add, edit and delete the Students.

8. Add and Manage Notices

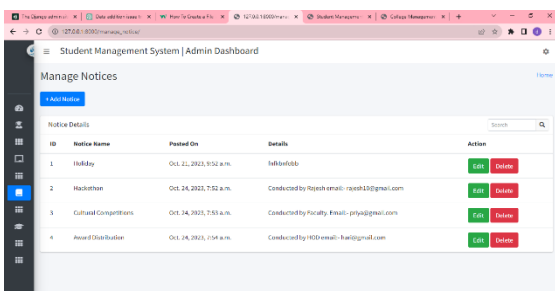


Fig-8: Add and Manage Notices

Admin can add, edit and delete various types of notices.

9. Add and Manage Events

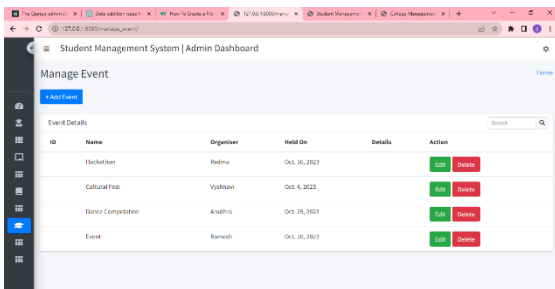


Fig-9: Add and Manage Events

Admin can add, edit and delete various types of Events.

10. Reply to the Students Feedback

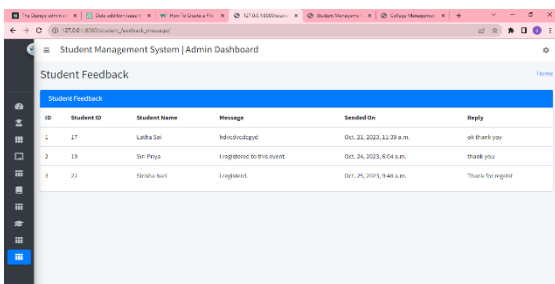


Fig-10: Reply to the Students Feedback

Admin can give quick reply to the students feedback.

11. Student Login

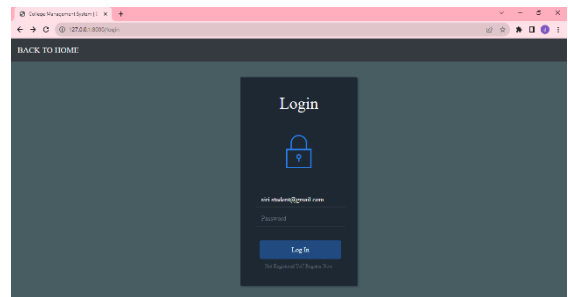


Fig-11: Student Login

The students can login with registered email and password.

12. Student Dashboard

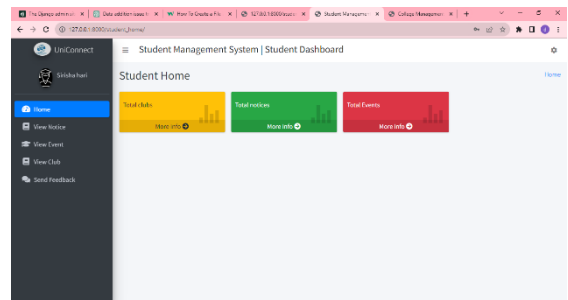


Fig-12: Student Dashboard

The students can view the notices, event and various types of clubs.

13. Notices

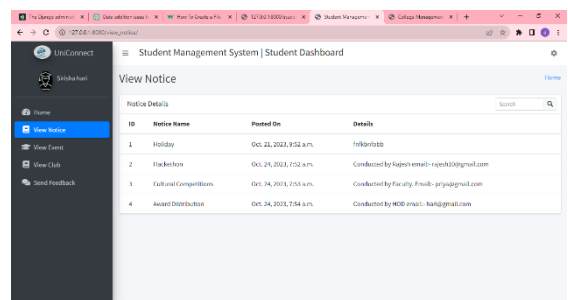


Fig-13: Notices'

Student can view notices and their details.+99

14. Events

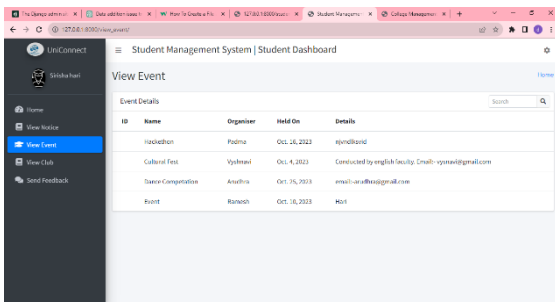


Fig-14:Events

Students can view Various types of events and their details.

15. Clubs

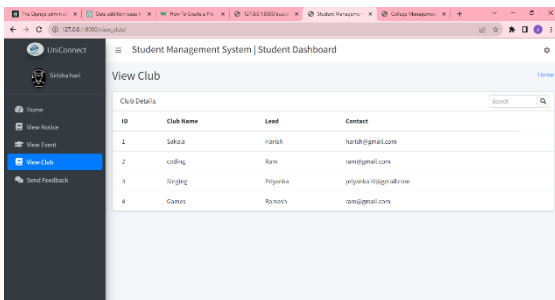


Fig-15: Clubs

Student can view various types of clubs and their details.

16. Student Feedback

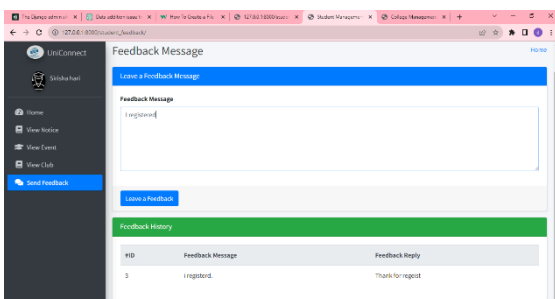


Fig-16:Student Feedback

Student can send feedback to the admin.

10. ADVANTAGES

- It is unnecessary to visit the College Notice Board for events, advertisements, or message information.
- It is simple for the College to display various messages on its notice board.

- Students can easily go through the notices through their logins.
- Notices are sent to students via both SMS and email.
- It is possible to filter content based on criteria such as branch, event, and notice category.

11. CONCLUSION

Following a thorough examination of the notion of an Online Notice Board application, it is obvious that this technology represents an important step toward improving communication and streamlining information management in businesses. Online Notice boards have various advantages over classical paper-based notice boards, including profitable, convenience of use, and friendliness. This application helps for social gatherings and improving communication between students in a college. It contains a variety of features that allow users to display a variety of information, such as timetables, and notice updates and events updates.

12. FUTURE SCOPE

1. Mobile Application: Consider developing a mobile app version of UniConnect to make it even more accessible to students. This will allow users to receive real-time notifications and access event information on their smartphones.
2. Integration with Learning Management Systems (LMS): Explore integration with the university's Learning Management System, enabling students to seamlessly access class schedules, assignments, and academic updates alongside non-academic events.
3. Event Payment and Registration: Enable event organizers to sell tickets or manage registrations online, providing a seamless experience for event attendees and organizers.
4. Social Integration: Enhance social media integration, allowing users to easily share events and updates on their preferred social platforms, increasing the visibility and reach of events.

13. REFERENCES

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