

Students Club

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Abstract - Students Club is a web-based Chat app and instant messaging platform. It's Users can communicate with text messaging in private chats or as part of communities. The application was designed for creating communities ranging from gamers to education and businesses. While doing studies or projects we often get distracted while discussing with our group through social media apps. This Students Club helps students to discuss with their group with the help of cool utilities which are useful for their project. It is a place to chat about various things, from a discussion about specific group and project, to chatting about loved games, web-series, movies, anime and more. You can ask and help with technical problems, post quotes, pictures and trivia and talk to specific groups!

Key Words: Text messaging, Communities, Messaging platform, Private Chats, Group discussion.

1. INTRODUCTION

Challenges in the learning process have increased due to growing class size, it becomes difficult for students to connect with everyone in the class. To overcome this issue, we have built a website called Students Club. This website can be used for texting, messaging and communication which makes it easier for students to discuss assignments, reminders and communicate with other students about conferences, field trips and volunteer opportunities. This website will allow student to lead conversations and present their ideas more effectively to the group. The website has a specific feature that will help the students to get connected with other students from various branches of university. The main aim of this website is to allow students to network easily and exchange their ideas which will lead to their academic progress.

1.1 OBJECTIVES

1. To build a user-friendly platform to chat with group members.
2. To manage the information about the user's profile and recent activity.
3. To allow users to connect to chat servers and communicate with other users via chat room.
4. To provide hands-on experience to students of a chat app created by their classmates.
5. The project is built at the administrative end and thus only administrator is granted access.

1.2 SCOPES

Students Club is an integrated Web-app developed for students to chat with each other about their Studies, Assignments and their work like a normal chat application. The main aim of this project is to manage all the details of user streams like Information Technology and Computer Science, etc and their recent activity. The purpose of the project is to build a Web-app chatting program to reduce the manual work of managing the Online chat rooms, Chat profile and Group chats. Provides the search facilities based on various study streams and user profiles. Shows the information and description of the user profiles and chat rooms. The students club helps collect perfect student data and their activity in detail. In a very short time, the collection will be obvious, simple and sensible. It is easy to understand by the user and operator. It will be a text communication program that can communicate between multiple users via a point-to-point connection.

Our project's drawback is that it does not support audio chats, calling, transferring images and all that is Distraction free. Students want communication online which should be between them for discussing their project work, Topic doubts, Assignments, etc, which allows them to communicate immediately inside their chat rooms without distraction. Students want information about their college work, activities, study material, topic discussions and more. And the best way to get it is through communication tools that is our Students Club(Web app).

2. PROBLEM DEFINITION

In simple terms, this project is to provide users with an instant messaging tool that can handle many users simultaneously when needed and can be easily done. As this project is to create a python-based chat application with a server and client module to enable the clients in the same or different chat rooms i.e., it will allow users with an internet connection to engage in private and public conversation. The development of a message protocol that would allow the application to properly log in users, join their respective departments, send messages and perform system maintenance.

3. PROPOSED SYSTEM

1. The proposed system is a web-based application and maintains a centralized repository of all related information.

2. The system allows one to easily access the chat rooms.
3. User's data or information can be stored for a longer period with easy accessing and manipulation of the same. The project describes how to manage good performance and better services for the clients.

Advantages of the proposed system:

1. Possess ability to store information about the new entry of chat profile.
2. Notifier to help the internal staff to keep informed of chat user and find them as per various queries.
3. Can maintain quantity records.
4. Has a search area to get to the desired topic easily.
5. It has a security check to prevent data theft.
6. It shows information and description of the chat profile and chat history.
7. Editing, adding and updating of records is improved which results in proper resource management of chat profile data.
8. It satisfies the user requirements and has a good user interface.

4. FEATURES AND FUNCTIONALITY

User-friendly Interface:

A good user interface is well-organized making it easy to locate different tools and options which our system excels at it.

Communication and time management:

Deployment of our application will certainly help the college to reduce unnecessary wastage of time in personally going to each department for some information during times like pandemic or any period of the year.

1. Product and component based.
2. Creating and changing issues at ease.
3. Query issue list to ant depth.
4. Reporting and charting in a more comprehensive way.
5. User accounts to control the access and maintain security.
6. Simple status and resolutions.
7. Multi-level priorities and severities.

8. Targets and milestones for guiding the programmers.
9. Attachments and additional comments for more information.
10. Various levels of reports available with a lot of filter criteria.
11. Easy and fast retrieval of information.
12. Well designed reports.

5. OUTCOMES

Every organization whether big or small has challenges to overcome and manage the information of chat users, chat profile, group chat and multi chat. Every chat application has different chat profile needs therefore, we design as exclusive Students Club app that is adapted to everyone's managerial requirement. We can add few new features as and when we require them. Navigation through web application is easy. This application can be easily implemented in various situations. Reusability of this application is also possible. The proposed system is a completely computer-based application. Thousands of records can be searched and displayed without taking any significant time with accurate information.

1. Simplifies the manual work.
2. It minimizes the documentation related work.
3. Provides up-to-date information.
4. User's details can be provided.

6. PROJECT DESIGN

In this phase, a logical system is built which fulfils the given requirements. The design phase of software development deals with transforming the client's requirements into a logically working system. Normally, design is performed by the following two steps:

1. Primary Design Phase:

In this phase, the system is designed at the block level. The blocks are created based on analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimizing the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

2. Secondary Design Phase:

In the second phase, the detailed design of every block is performed. The general tasks

involved in the design process are the following:

- a. Design various blocks for overall system processes.
- b. Design smaller, compact and workable modules in each block.
- c. Design various database structures.
- d. Specify details of programs to achieve the desired functionality.
- e. Perform documentation of the design.

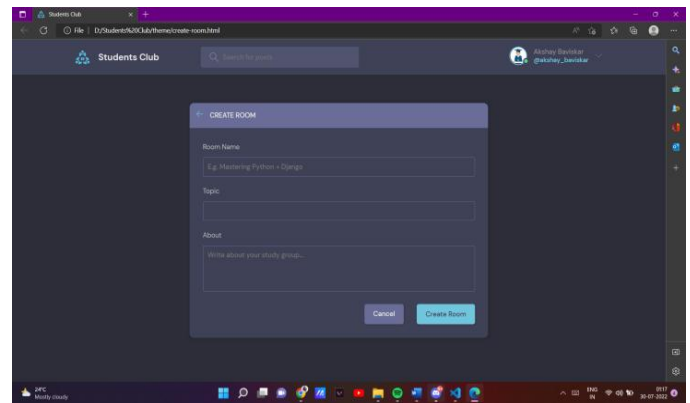


Fig 2: Creating a room

7. SUMMARY AND CONCLUSION

Students Club is mainly a chat app for college students where they can chat with their mates from their respective departments or with others. Many different activities are occurring in a college. My “Students Club” web-based application helps in an online conversation that has a premium user interface that can be fully customized with the integration of different API’s, it has a friendly environment that connects customers willingly. This web application was successfully created and stored all the information and conversation of every user in the database using the application. The application was tested very well and the errors were properly debugged. Testing also concluded that the performance of the system is satisfactory. All the necessary output is generated. This system thus provides an easy way to automate all the functionalities of consumption. If this application is implemented in a few consumptions, it will be helpful. Further enhancements can be made to the project so that the website functions in a very attractive and useful manner than the present one. It is concluded that the application works well and satisfies the needs. The application is tested very well and errors are properly debugged, It also acts as the sharing of valuable resources and files.

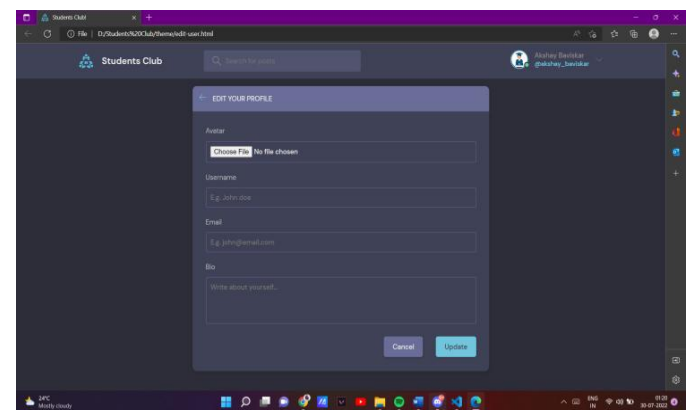


Fig 3: Updating the profile

8. OUTPUT

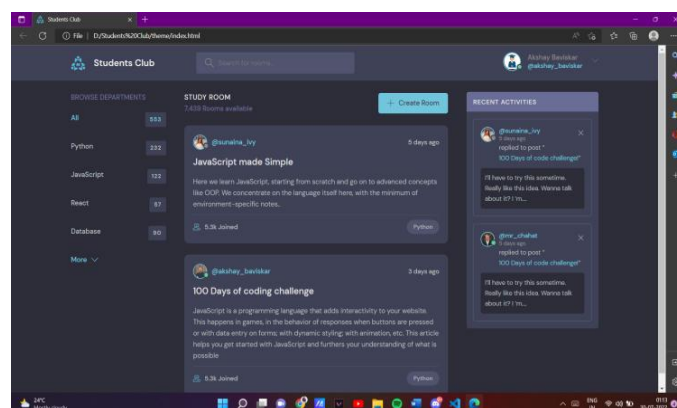


Fig 1: User Interface

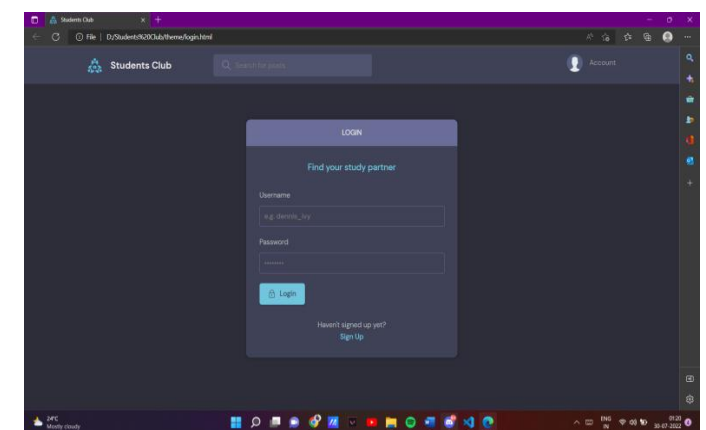


Fig 4: Login screen

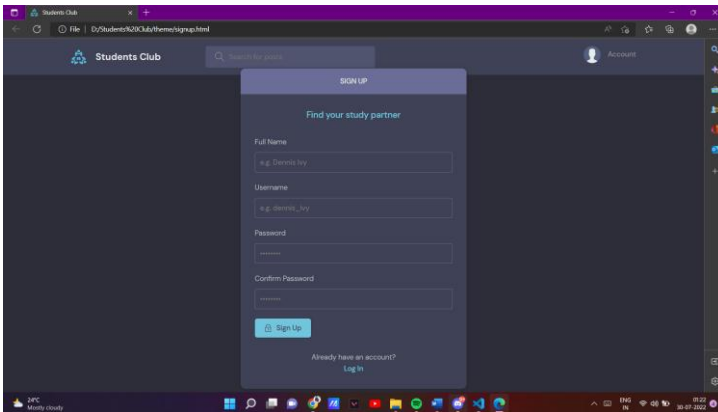


Fig 5: Sign up page

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