

A Mini Project Synopsis on
APSIT Students Club

S.E. - I.T Engineering

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CERTIFICATE

This is to certify that the Mini Project report on APSIT Students Club has been submitted by Jateen Tirlotkar (20104091), Devesh Zope (20104086), Sahil Vishwakarma (20104089), and Siddhesh Sawant (20104044) who are Bonafede students of A. P. Shah Institute of Technology, Thane, Mumbai, as partial fulfilment of the requirement for the degree in **Information Technology**, during the academic year **2021-2022** in a satisfactory manner as per the curriculum laid down by University of Mumbai.

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Chapter 1

Introduction

Students Club is a Chat app, and instant messaging platform. Users 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 cool utilities which are useful for their project. It is a place to chat about various things, from a discussion about Fandom and Gramedia, to chatting about beloved games, movies, TV, anime, and more. You can ask and help with technical problems, post quotes, pictures, and trivia, and talk to Fandom Staff!

1.1 Purpose

Challenges in the learning process have increased due to growing class sizes, it becomes difficult for students to connect with everyone in the class. To overcome this issue, we have built a website called Student club. This website for texting, messaging and communication 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 students to lead conversations and present their ideas more effectively to the group. The website has a specific feature that will help the student to get connected with other students from various branches of the 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.

1.2 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 allows 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 the administrator is guaranteed access.

1.3 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 Users, Chat Profiles, and Chat History and it also manages the information about users' streams Like IT and Comps. 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 is a Chat server Web-app 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 between them online 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 materials, Topic discussion, and more, and the best way to get it is through communication tools that as Our Students Club (Web app).

Chapter 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 clients to enable the clients with many other clients in the same or different chat room i.e., it will allow users with an internet connection to engage in private and public conversation. The development of this project is centered on 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.

Chapter 3

Proposed System

- The proposed system is a web-based application and maintains a centralized repository of all related information.
- The system allows one to easily access the rooms.
- User's data/ 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:

The proposed system has the following requirements:

- System needs to store information about the new entry of Chat Profile.
- System needs to help the internal staff to keep informed of Chat User and find them as per various queries.
- System needs to maintain quantity records.
- System needs to keep the record of Chat History.
- System needs to update and delete the record.
- System also needs a search area.
- It also needs a security system to prevent data.
- It shows the information and description of the Chat profile, and chat history.

Editing adding and updating of Records is improved which results in proper resource management of chat profile data.

- It manages the information of Group chat.
- It helps students by providing searching facilities based on various factors like chat history, group chat, etc.
- User can check their recent messages on the recent activities tab.
- It satisfies the user requirement and has a good user interface.

3.1 Features and Functionality

User-friendly Interface:

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

Communication & 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 this covid time.

- Product and Component-based
- Creating & Changing Issues at ease
- Query Issue List to any depth
- Reporting & Charting in a more comprehensive way
- User Accounts to control the access and maintain security
- Simple Status & Resolutions
- Multi-level Priorities & Severities.
- Targets & Milestones for guiding the programmers
- Attachments & Additional Comments for more information
- Various levels of reports available with a lot of filter criteria
- It contains better storage capacity.
- Accuracy in work.
- Easy & fast retrieval of information.
- Well-designed reports.

Chapter 4

Project Outcomes

Every organization, whether big or small, has challenges to overcome and manage the information of Chat User, Chat Profile, Group Chat, and Multi Chat. Every Chat application has different Chat Profile needs; therefore, we design an exclusive Students Club app that is adapted to everyone's managerial requirement. We can add new features as and when we require them. Navigation through the 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 search and displayed without taking any significant time Gives accurate information.

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

Chapter 5

Software Requirements

Frontend:

Visual Studio Code

Python 3.10.00

Framework Used: Django

Backend:

Database Used: MySqlite3

Chapter 6

Project Design

In this phase, a logical system is built which fulfills 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.

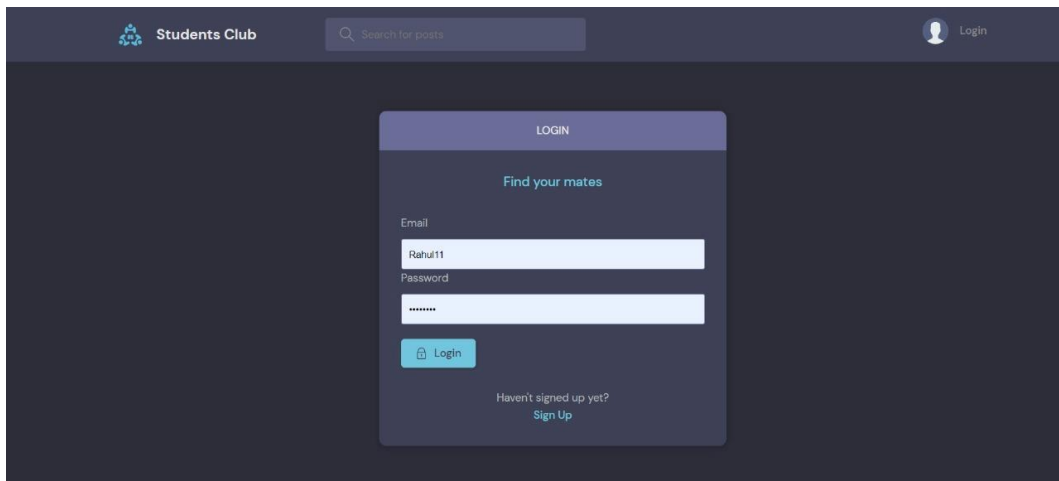
1. Primary Design Phase:

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:

1. Design various blocks for overall system processes.
2. Design smaller, compact and workable modules in each block.
3. Design various database structures.
4. Specify details of programs to achieve the desired functionality.
5. Design the form of inputs, and outputs of the system.
6. Perform documentation of the design.



The image shows a web application interface for 'Students Club'. At the top, there is a dark blue header with the 'Students Club' logo on the left, a search bar with the placeholder text 'Search for posts' in the center, and a user profile icon with the text 'Login' on the right. Below the header, the main content area is dark blue. In the center, there is a white login form. The form has a title 'LOGIN' at the top, followed by the text 'Find your mates'. Below this, there are two input fields: 'Email' with the value 'Rahul11' and 'Password' with masked characters '*****'. A blue 'Login' button is positioned below the password field. At the bottom of the form, there is a link that says 'Haven't signed up yet? Sign Up'.

REGISTER

Find your mates

Name

Username

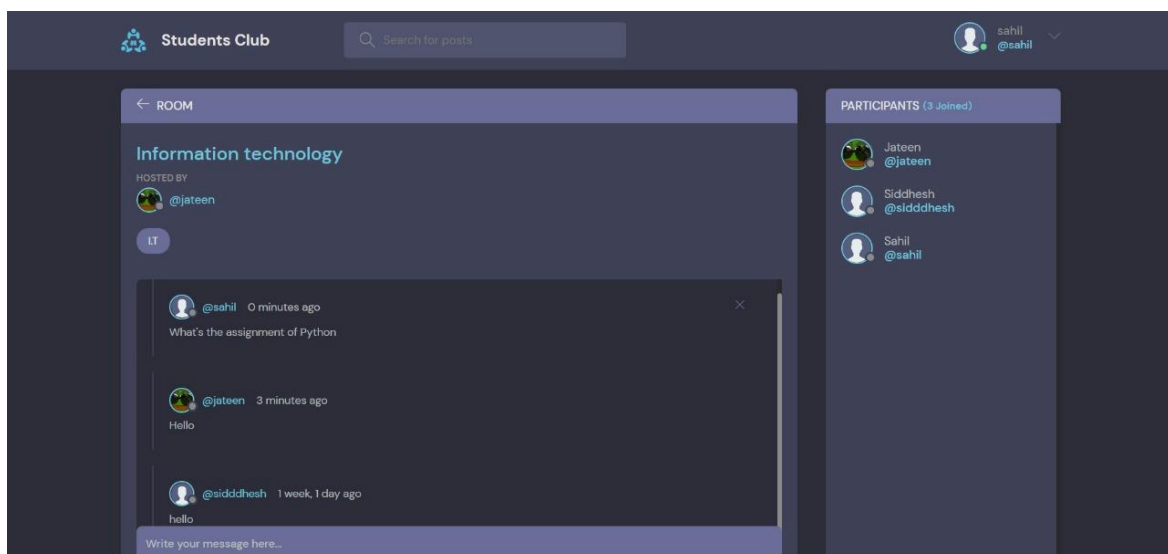
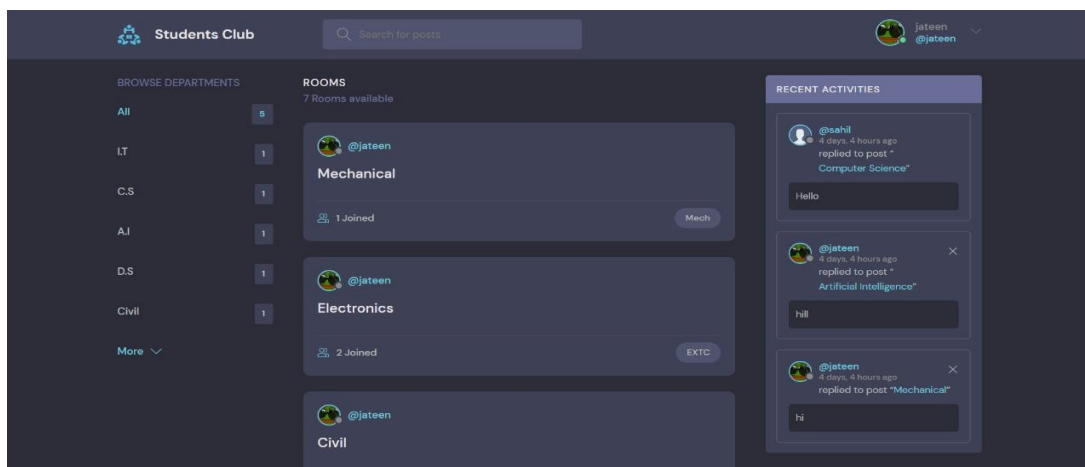
Email

Password

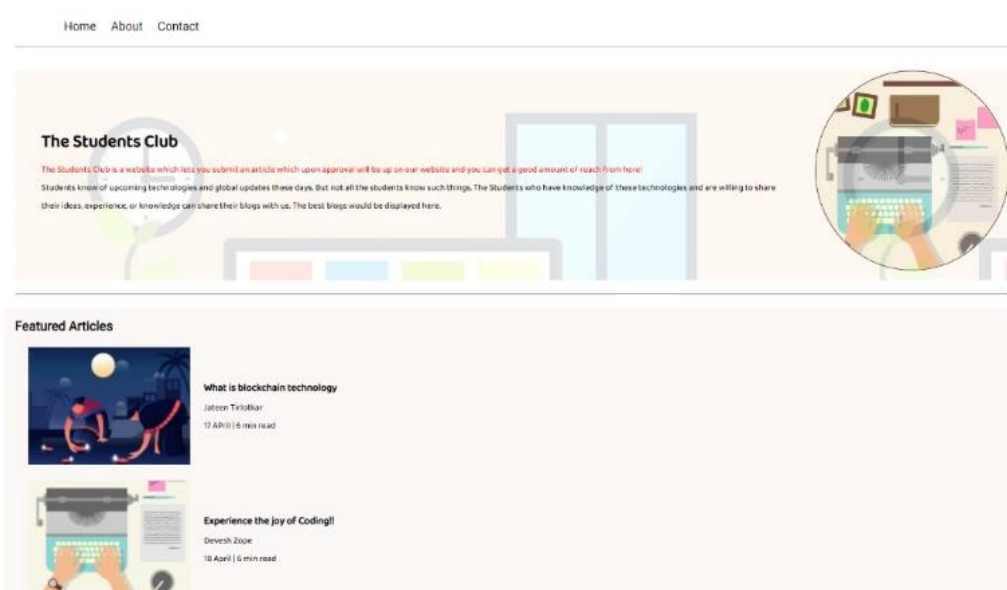
Password confirmation

Register

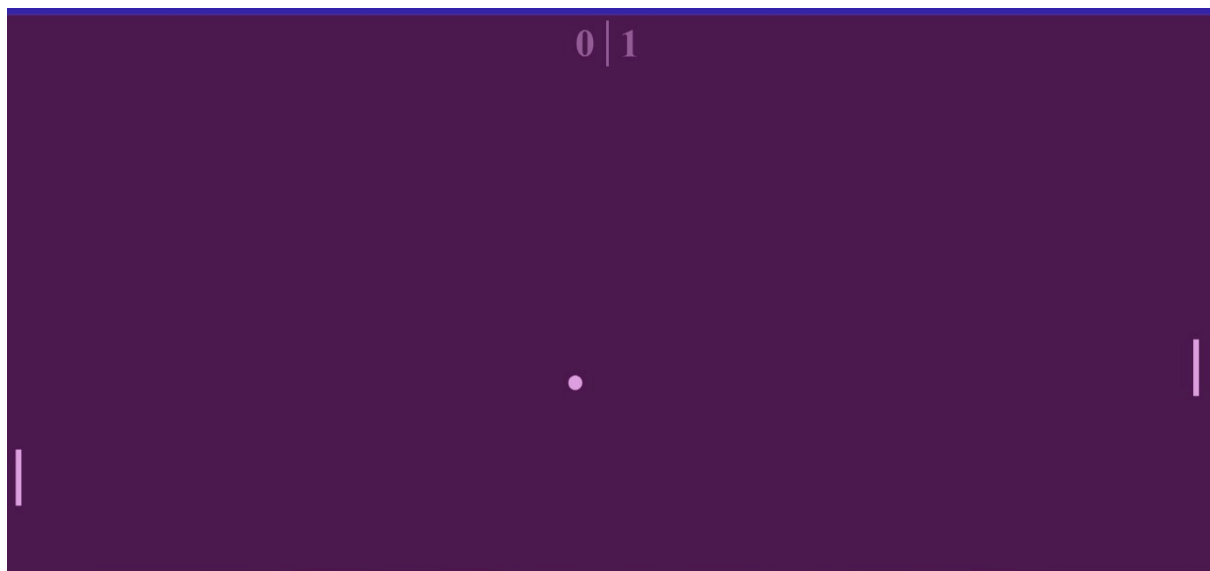
Home page:



Blog:



Ping Pong Game:



Chapter 7

Gant Chart:

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION(Weeks)	PERCENTAGE OF TASK COMPLETE
1	Project Conception and Initiation					
1.1	Group formation and Topic finalization. Identifying the scope and objectives of the Mini Project	Jateen Sahil Devesh Siddhesh	1-17-22	1-28-22	2	100%
1.2	Identifying the functionalities of the Mini Project	Devesh Sahil	1-31-22	2-11-22	2	100%
1.3	Discussing the project topic with the help of paper prototype.	Devesh Sahil Jateen Siddhesh	2-14-22	2-25-22	2	100%
1.4	Designing the Graphical User Interface(GUI)	Jateen Devesh	2-28-22	3-11-22	2	100%
1.5	Presentation I	Devesh Sahil Jateen Siddhesh	3-14-22	3-18-22	1	100%
2	Project Design and Implementation					
2.1	Database Design	Devesh Jateen	3-21-22	3-26-22	1	100%
2.2	Database Connectivity of all modules	Sahil Siddhesh	3-28-22	4-1-22	1	100%
2.3	Integration of all modules and Report Writing	Jateen Devesh Sahil Siddhesh	4-4-22	4-8-22	1	100%
2.4	Presentation II	Jateen Sahil Devesh Siddhesh	4-11-22	4-19-22	2	100%

Chapter 8

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 GUI interface that can be fully customized with the integration of different APIs, 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 files the valuable resources.

Reference:

- <https://youtu.be/JxzZxdht-XY>
- <https://stackoverflow.com/>
- <https://www.geeksforgeeks.org/>

ACKNOWLEDGEMENT

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