

PROJECT REPORT

on

Online Chat-File sharing- Announcement Portal

CSE3002 – Internet & Web Programming

Under the guidance of

JAYA SUBALAKSHMI R

Submitted by

Sujeeth E.S - 17BCI0133

Pratyush Gupta -17BCI0094

Bachelor of Technology in

Computer Science and Engineering



VIT[®]

Vellore Institute of Technology

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Abstract:

In this project, we have created a web-application wherein we create a student portal for the students of VIT. Using this online portal, the students can interact with others by forming groups based on their interests and allowing the other students to join them. Individual students would be required to create an account to access the features of this portal which shall be managed by the group administrator who in this case is the creator of the group as well. Thereafter, every time a student logs in to the portal, it will be using their own user id and password. The groups consist of discussion forums wherein students shall post some topics of discussion and the fellow students could like, comment or share the same in order to indulge in the interaction. Groups shall also comprise of real time chatting facility wherein all the students belonging to a particular group shall be able to communicate with each other in a single chat window. In addition to this, the group members shall be entitled to share among themselves different types of files including text, links and images. Although, every group member shall be entitled to invite any individual into the group, the member rights would remain solely with the administrator. The administrator, however, can be altered in case they would like to hand over the group administration to another member of the group. The application would, at every time, shall be displaying whether an individual is online by a green mark and also the total number of students online at a particular time. The profile of each user shall be managed efficiently and shall be assigned a public username, a profile picture and an optional biography.

Problem Statement

This project is to create a chat application with a server and users to enable the users to chat with and share files with each other; to develop an instant messaging solution to enable users to seamlessly communicate with each other. The project should be very easy to use enabling even a novice to use it effortlessly.

Project Objectives

The objectives of this project are:

- To develop the modules including private and public chats as well as private and public file sharing besides a common page for uploading important notices and information.
- In addition to this, on the user dashboard, our objective is to include various statistics related to the traffic on the website including the number of people visiting the site, number of likes and comments received by them and the total number of page visits for the day along with a graph representing the traffic data.
- To establish a common platform for all the students to share files and messages and to construct a strong network to achieve instantaneous requirements of the students in order to aid them academically and in other aspects.

Software Utilised:

1. PHP/MySQL
2. XAMPP Server
3. Web Browser
4. Text Application

Literature Survey

Chatbot Enhanced Algorithms: A Case Study on Implementation in Bahasa Malaysia Human Language

In this paper, the authors have proposed an enhanced algorithm of a chatbot by utilising the advantages of relational database model to design the whole architecture of the chatbot which shall enable several features that could not be achieved or was difficult to carry out in the previous state of computer science programming technique. The paper initially presents some literature of a previously developed chatbot, following a detailed description of each of the new enhanced algorithms together with the testing and results from the implementation which could be used in the development of a modern chatbot. These several new algorithms, they claim, shall enable features that will extend chatbot capabilities in responding to the conversation. These algorithms are actually implemented in design and development of chatbot that specifically deal with Bahasa (a Malaysian language), but taking to account that language in

chatbot is really about the data in chatbot knowledge-based, the algorithm is seems transferable wherever it fits into another human language.

Enhanced Education Chat Application Based on Interested Keyword with Username and Password Authentication Security

In this research paper, the authors have introduced a web education chatting application based on interested keyword. The main purpose of this research paper is to create an online platform where educationalists and all types of students including research scholars and others can communicate each other through chatting box based on their interested keyword such as 'Mathematics', 'History', 'Sociology', 'Economics' etc. For instance, if a user filters the result on typing 'history', a list of historians shall be filtered out and the student can easily communicate by sending them a text message and communicating their problems to them. They also claim to be providing Username and Password based authentication security to protect the communication between the teacher and the student.

College Chat-bot

The project aim is to create a chat bot based interactive automatic question-answering system capable of pronominal anaphor in a user-driven dialogue. Their intention is to present the desired data to the user faster. The technologies concerned in this project are APLAI, android an internet technologies.

The motivation behind a chat bot system to mimic a human discussion; the chat bot architecture consists a language model and an algorithm related to computational techniques to emulate information communication between a human and a computer using common language. With the advance of data mining and AI strategies, higher decision making capabilities, availability of corpora, sturdy linguistic annotations or process tools like XML and its applications, chat bot have clad to be additional practical in day by day life applications, for example, facilitate desk tools, data recovery devices, automatic telephone answering systems, commercial enterprise, devices to assist in training, business and E-trade. In E-trade, chat bot helps in data recovery undertakings, for example, for searching and browsing, as menu based route presents challenges find the suitable information. The dialogue provides additional information on products and simplifies decision making procedure to find a product that fulfills client's necessities. The study focused more on user attributes rather than the efficiency of chat bot.

PROPOSED WORK

The objectives of this project are:

- To develop the modules including private and public chats as well as private and public file sharing besides a common page for uploading important notices and information.
- In addition to this, on the user dashboard, our objective is to include various statistics related to the traffic on the website including the number of people visiting the site, number of likes and comments received by them and the total number of page visits for the day along with a graph representing the traffic data.
- To establish a common platform for all the students to share files and messages and to construct a strong network to achieve instantaneous requirements of the students in order to aid them academically and in other aspects.

Sign Up

We created a User signup page using html forms alongside with php post method to connect and save the information in the Mysql database. Basics fonts are used to design the page.

This page is to collect the basic details like Username, first name and password from the user in order to authenticate and to create an account with user provided name and password. After creating an account the user can Sign In through Sign In page through the hyperlink provided in Sign Up page.

Sign In

The Sign In page verifies the user entered details and navigates him to the main portal if the user is already enrolled in the database. It is built with html forms alongside with php post method and css styles.

We created hyperlinks of Sign In in Sign Up page and Sign Up in Sign In page so that the new user can Sign Up and enrolled user can Sign In immediately.

Letschat

We develop a platform in the form of a web application to achieve communication between students so that then can interact with each other using many modules like public and private chats , public and private file sharing and a common page called general announcements where the students can upload any important notices or information which can viewed by all the enrolled students.

User Guidelines

- On opening the website, the user shall be required to create an account following which they can subsequently login to use the application.
 - The user shall be redirected to their dashboard upon logging in wherein they'll find the various options in the navigation panel on the left side of the page.
5. The options consist of private chat, public chat, private share, public share as well as General or public announcements.
 6. The user clicks on each of the options to achieve the desirable actions.
 7. Finally, when the user has accomplished their tasks, they can click on logout from their dashboard by clicking on the Logout option in the navigation menu.

User Dashboard

After logging in, the user will be redirected to their User dashboard. User Dashboard contains various statistics related to the traffic on the website including the number of people visiting the site, number of likes and comments received by them and the total number of page visits for the day along with a graph representing the traffic data. The user will find various options in the navigation panel on the left side of the page where user can select any option required.

Public Chat

Css for good design and with the help of php and javascript public chat works on sending text messages to the group of students who were already enrolled. Here every user can publicly share their own opinions or ideas in the form of text messages which is visible to all other users.

We do have a sidebar bar on the right side which displays the current date and the list of files that are uploaded in the Pubic Share.

Private chat

Private is implemented using CSS for design and java script alongside with php so that the user can send text messages to other users privately i.e a single user can select and send messages to the other user so that only the selected user can see the message. It contains the section where all the enrolled user names are displayed. If the user is online then it indicates with green colour dot next to the users name otherwise the dot is grey in colour.

Public File Share

We can share any files in the public share which will be stored and in the database and is visible to all other users on the right side bar under uploads of public chat and on the right side bar under the General uploads of public share. One can download these file from the public share module. To upload a file we can either click on the browse button and upload a file or we can simply drag a file onto the Drophere border box.

Private File Share

We have three sections in the private share where the first section displays the users available to select. The next section displays the selected users and the third section is to select the files to send. We can remove the selected user from the list of selected users in case of any mistake. This private sends the file that the user has uploaded to the selected users privately.

General Announcements

This helps us to share the public announcements. This module contains a side bar to post announcement where the user have to provide the announcements title and its description.

The display section displays these messages publicly where all the enrolled students can view it in General announcements.

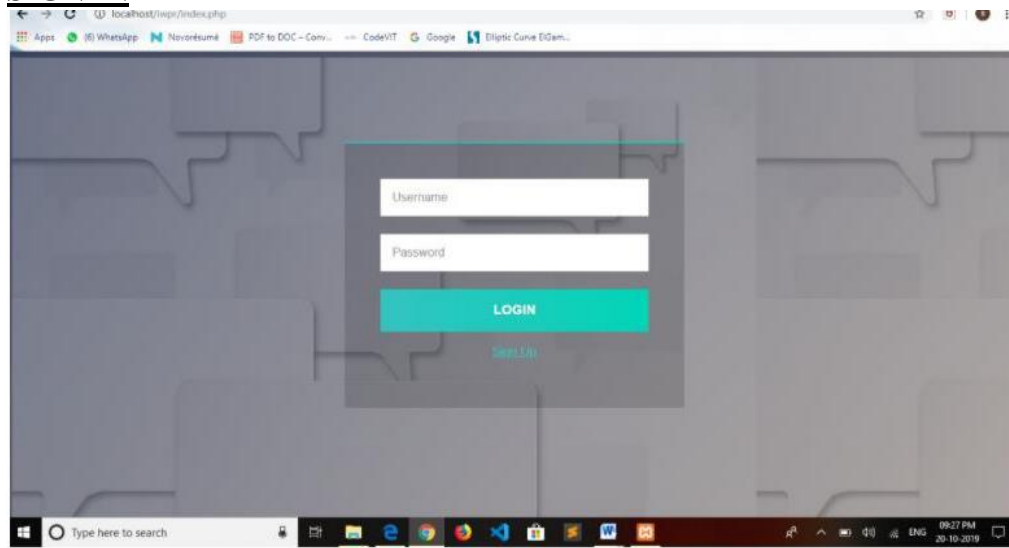
Server-Side Connection

As known the server-side connection is the main part in building a web application. For this we used XAMPP to establish database and PHP connection. And there was a discussion between our members to choose whether PHP or JAVA as server side, we compared them to the given requirements and came up with a optimum solution to use PHP as it is efficient and makes the application less complication to function.

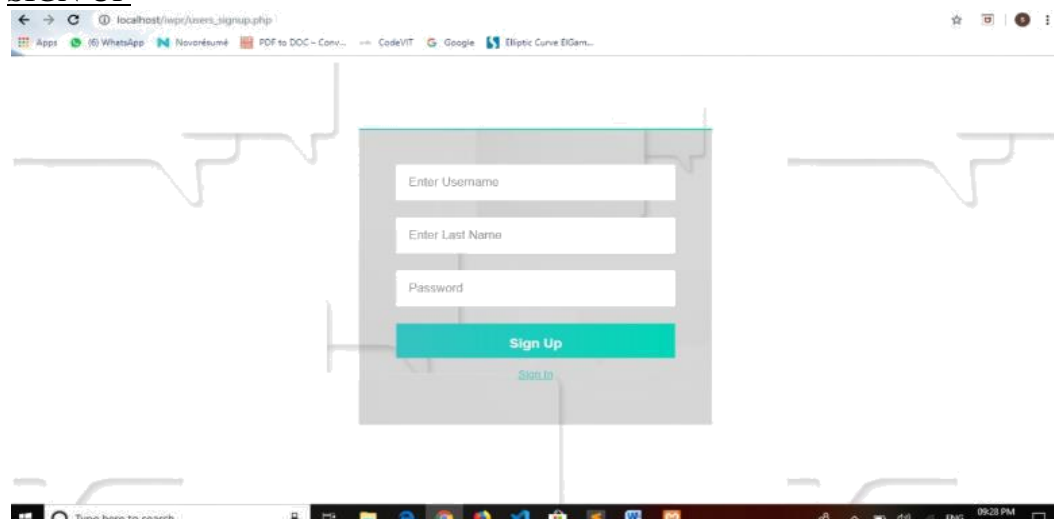
Experiment and Results:

Snapshots of the User Interface:

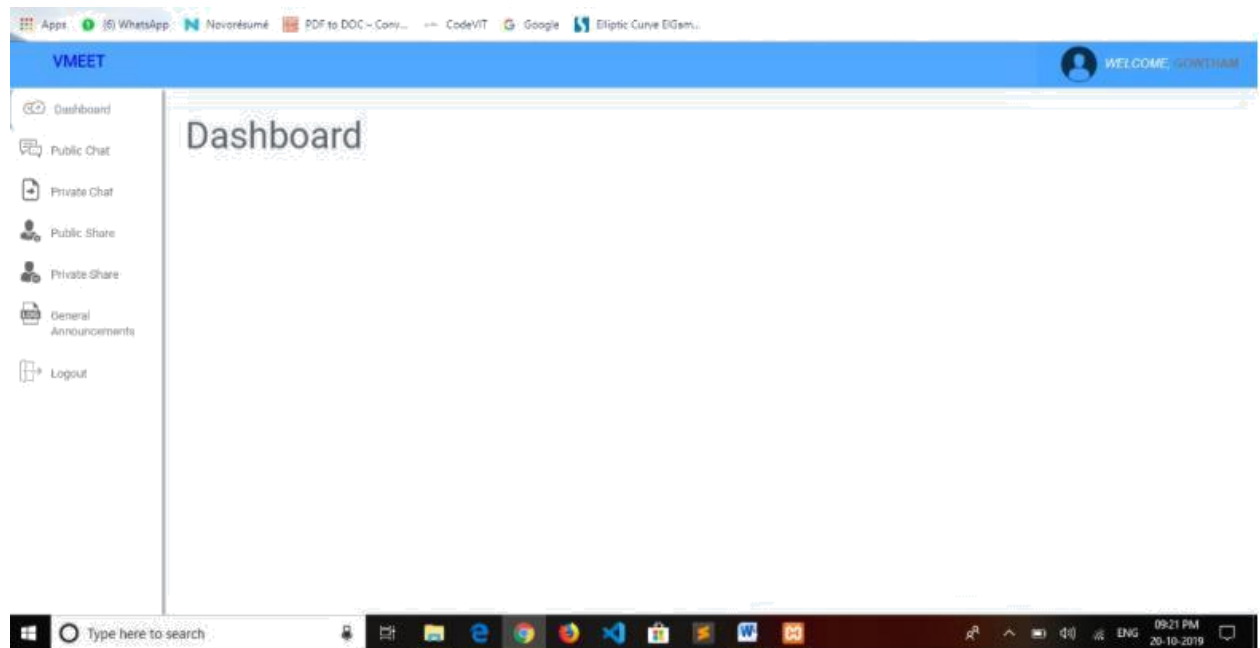
SIGN IN



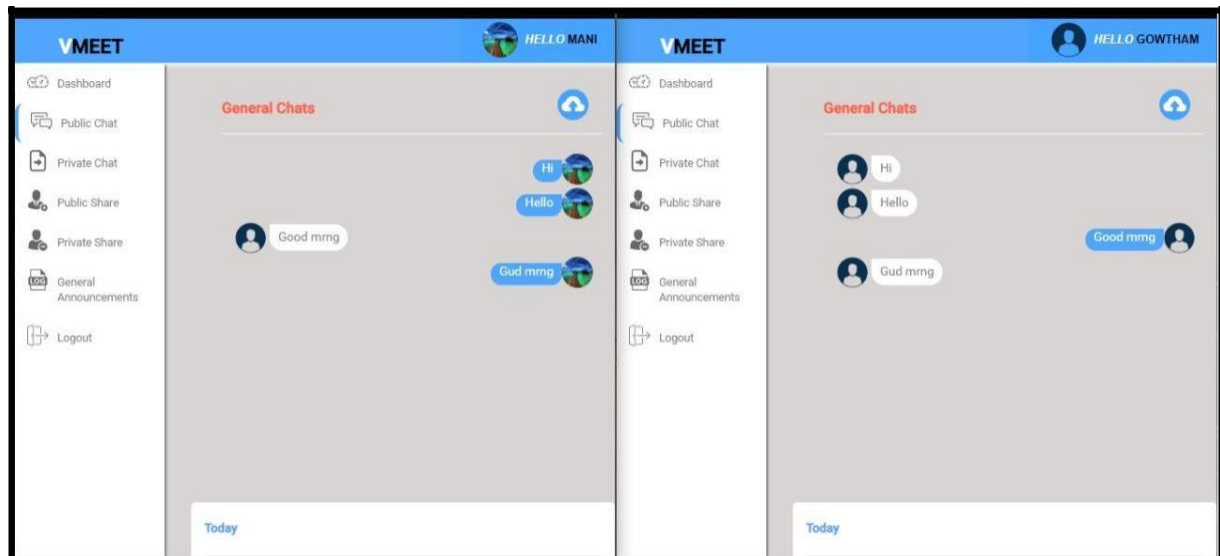
SIGN UP



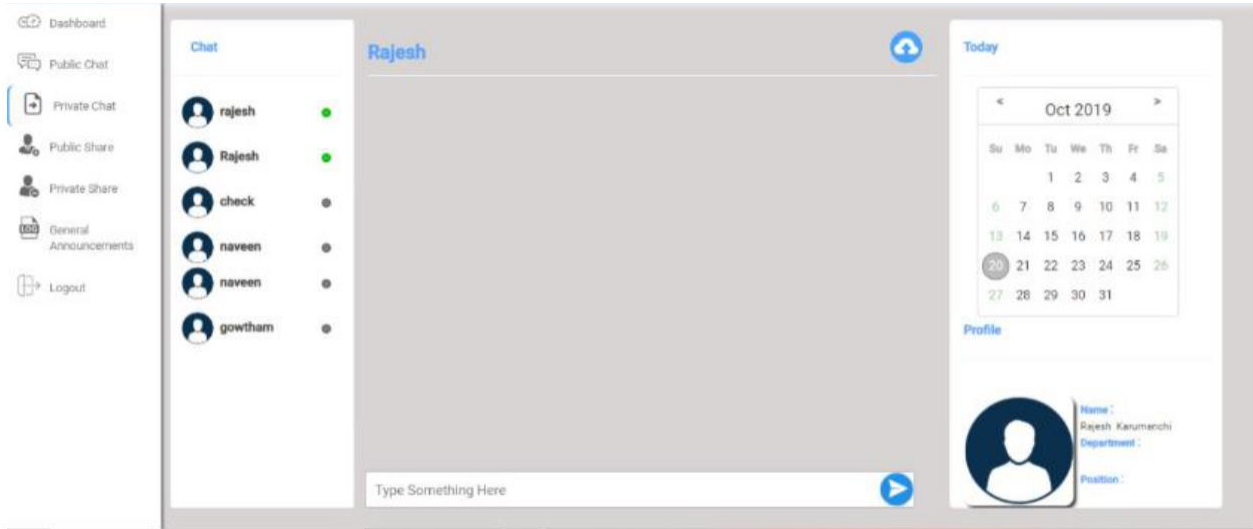
The User Dashboard



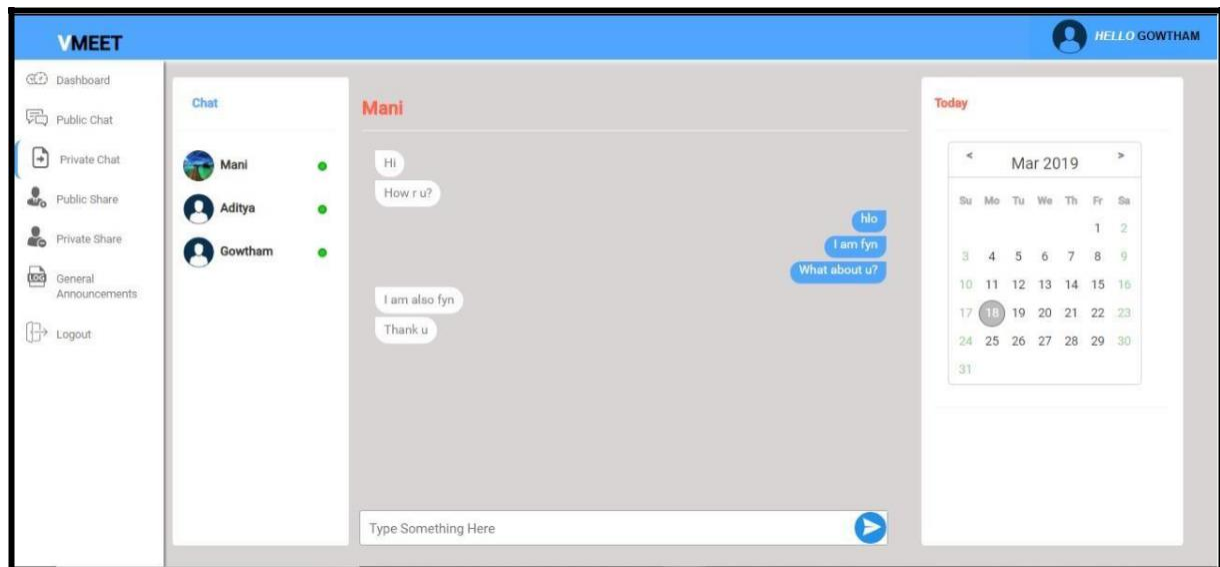
Public Chat



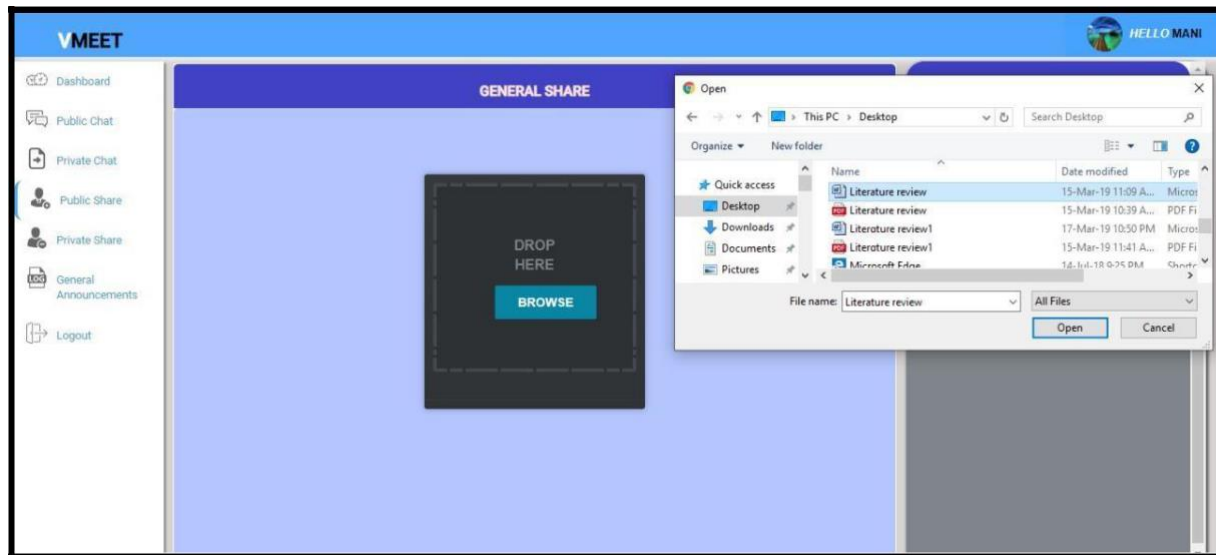
Private Chat



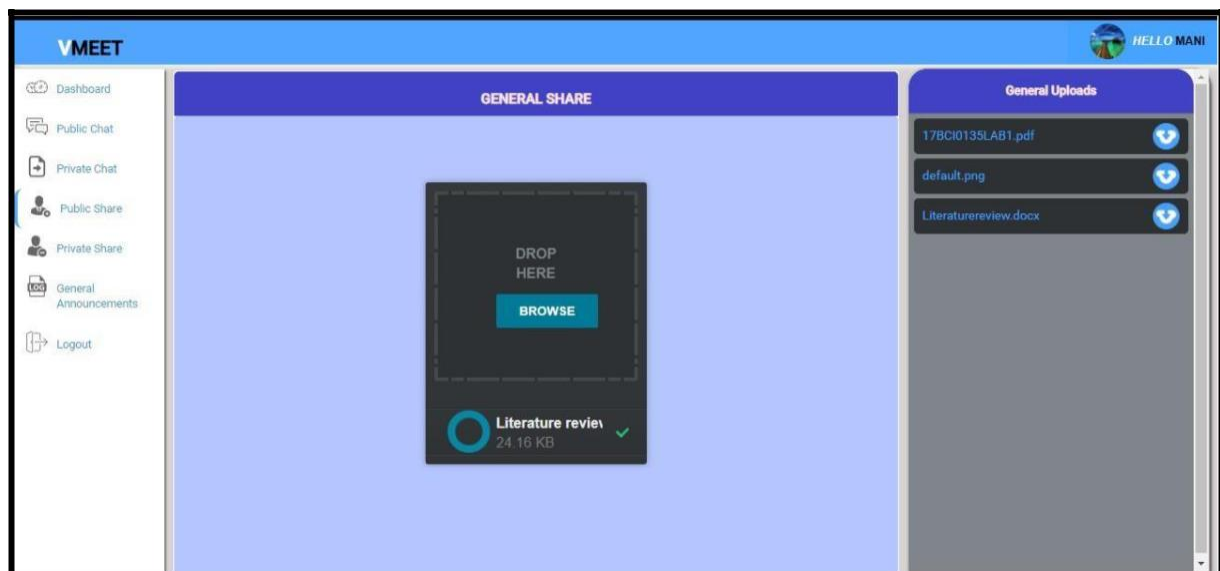
Private Chat



Public File Share



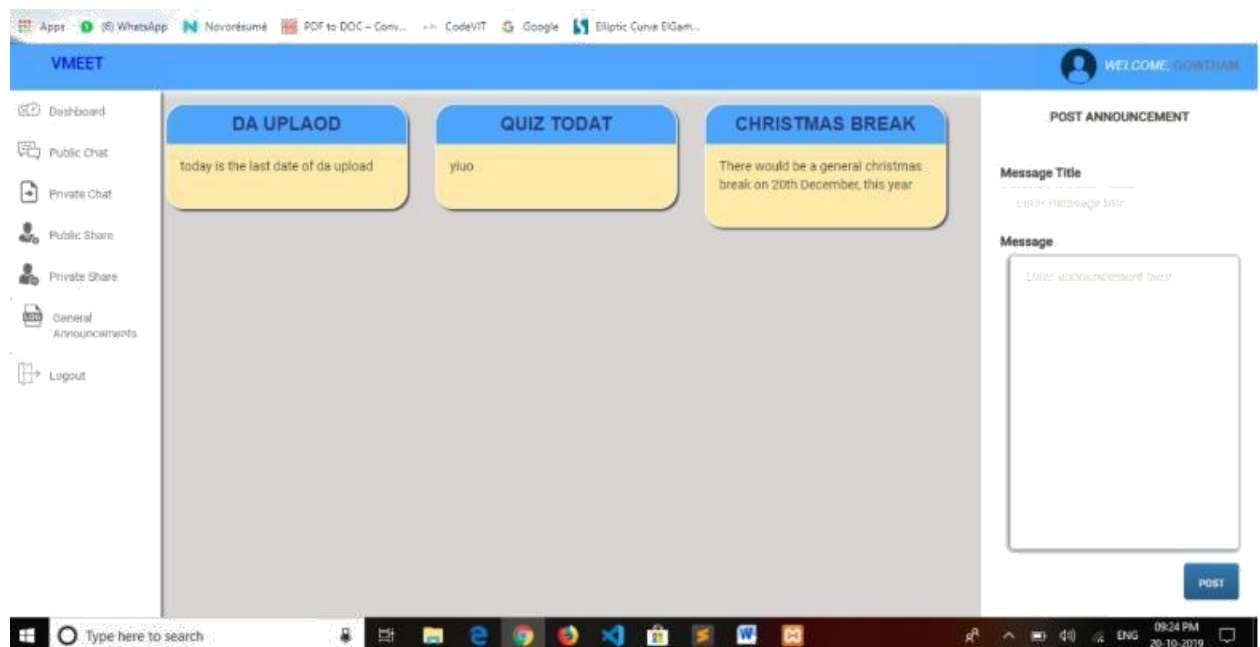
Public File Share



Private File Share:



General Announcements

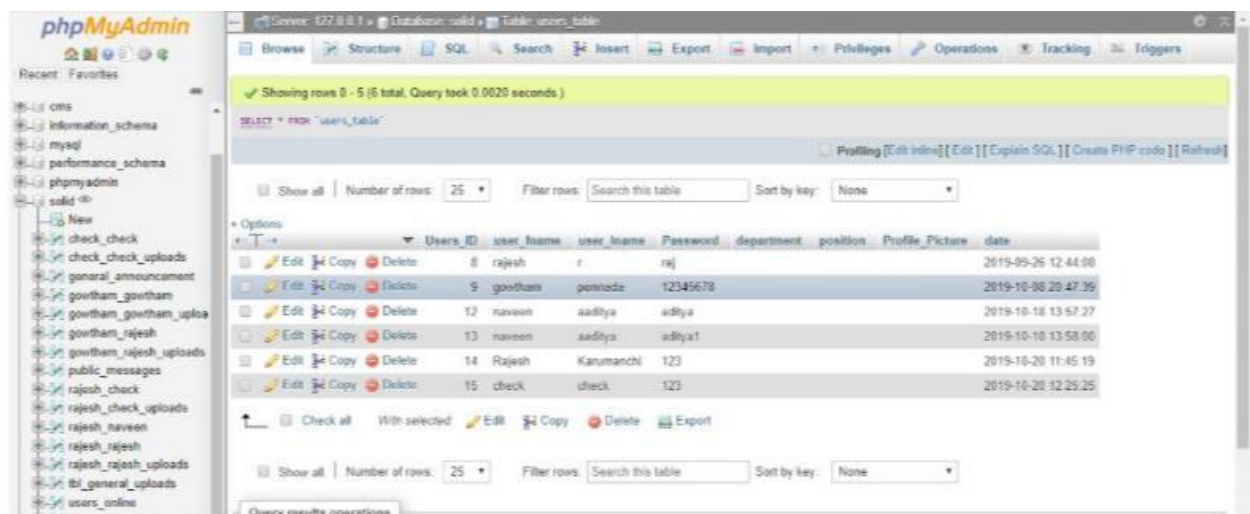


DATABASE

The database, called solid, will have tables, regarding the users , announcements , messages etc . Database is a systematic collection of data. Databases support storage and manipulation of data. Databases make data management easy. It helps storing the data and updating the data stored. It helps analysing the data which helps in increasing the user interaction. It also helps providing a more interactive information related to user. It also helps in data integrity and data security.

Also given all the required primary and foreign keys in the table. We also written the queries for the session data of user. Also the query for efficient access for the user data.

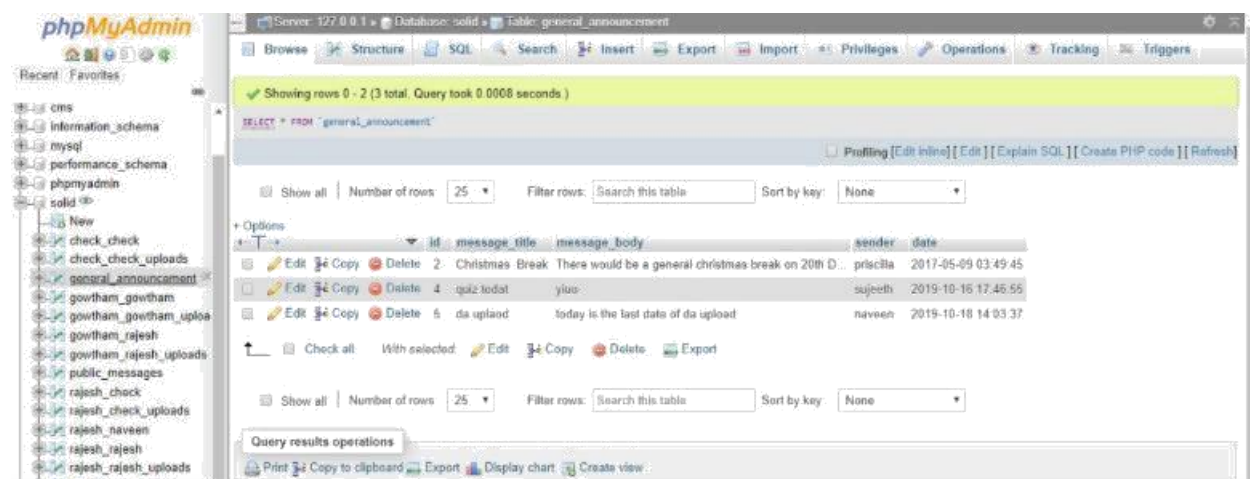
Each will hold information about either the account or the user. The users table has the following fields:



The screenshot shows the phpMyAdmin interface for the 'solid' database. The 'users' table is selected, and its structure and data are displayed. The table has the following columns: Users_ID, user_name, user_email, Password, department, position, Profile Picture, and date. The data is as follows:

Users_ID	user_name	user_email	Password	department	position	Profile Picture	date
8	rajesh	r	raj				2019-05-26 12:44:08
9	govtham	govtham	12345678				2019-10-08 20:47:39
12	naveen	aaditya	aaditya				2019-10-18 13:57:27
13	naveen	aaditya	aaditya1				2019-10-18 13:58:00
14	Rajesh	Kanumanchi	123				2019-10-20 11:45:19
15	check	check	123				2019-10-20 12:25:25

Announcements fields



The screenshot shows the phpMyAdmin interface for the 'solid' database. The 'general_announcement' table is selected, and its structure and data are displayed. The table has the following columns: id, message_title, message_body, sender, and date. The data is as follows:

id	message_title	message_body	sender	date
2	Christmas Break	There would be a general christmas break on 20th D.	prashla	2017-05-09 03:49:45
4	quiz todai	yloo	sujeeth	2019-10-16 17:46:55
6	da upload	today is the last date of da upload	naveen	2019-10-18 14:03:37

Conclusion:

In this project, we thus have developed a platform in the form of a web application to achieve communication between the students to share messages and files. We have successfully developed the modules including private and public chats as well as private and public file sharing besides a common page for uploading important notices and information.

With the development of this software, we hope to establish a common platform for all the students to share files and messages and to construct a strong network to achieve instantaneous requirements of the students in order to aid them academically and in other aspects.

References:

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