

HangoutOnTatling

PROJECT REPORT

OF MINI PROJECT-II

BACHELOR OF TECHNOLOGY

Computer Science and Engineering Branch

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(2021-2022)

Declaration



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I hereby declare that the work which is being presented in the Mini project - II “ Hangout On Tattling ” , in partial fulfilment of the requirements for Mini Project-II viva voce, is an authentic record of my own work carried under the supervision of Mr. MANDEEP SINGH, Technical Trainer, GLAU.

Name of Candidate:

Course: B Tech

Year: III

Semester: VI

CERTIFICATE

This is to certify that the mini project report entitled "HANGOUT ON TATTLING" submitted by Ayushi Batham, Vani Jain has been carried out under the guidance of Mr. MANDEEP SINGH, Technical Trainer, Department of Computer Engineering & Applications, GLA University, Mathura.

Signature:

Date:

ACKNOWLEDGEMENT

The project work in this report is an outcome of continuous work over a period and drew intellectual support from various sources. We would like to articulate our profound gratitude to all those people who extended their wholehearted co-operation and have helped me in completing this project successfully.

We are thankful to **Mr. MANDEEP SINGH** for teaching and assisting me in making the project successful. We would also like to thank other fellow mates for guiding and encouraging me throughout the duration of the project.

Ayushi Batham (191500204)

Vani Jain (191500893)

ABSTRACT

The main objective of the project is to create a online chatting website that allows users to make contacts online and can also add to their contact list. Using this users can communicate with their friends or family members or colleagues in their busy schedule without wasting their time. The user can login using their account details or new users can set up their account. They should give their name . A user can create, sign in to his account and add contacts in his/her account. This website is using PHP to develop this chatting website.

Training Certificates



GitHub Repository

<https://github.com/AyushiBatham/https---github.com-AyushiBatham-HangoutOnTattling>

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Chapter 01

1.1 General Introduction to the Project

Currently in our society, the people used to do any kind of communication over the Internet that offers a real-time transmission of text messages from sender to receiver.. There are many central system within our reach which allow user to communicate online like Instagram , facebook , and many more .

We are going to design a system for society which will keep track of the user chatting with their friends , sending and receiving messages with each other .They can also read their old chat by providing their login credentials. This will help user to stay in touch with their friends and know about their day to day schedule . As well as we will provide a system where user's can upload their image as a profile picture and also view his/her friend's profile picture.

1.2 Area of Computer Science

The computer has brought revolution in every sphere of human life, whether it is business, education field, governance, medical science etc. The computer has reduced the human work load, businesses are going global and everything is available at the click of mouse. Most of the users have to stay in contact with their friend or colleagues or family member , which is very time consuming task. By this application they can access talk easily.

Chapter 02

Problem Definition

Most of the people nowadays prefer online communication, this become more convenient for them as it take less time and can send messages in one click . There are some areas of online chatting platform which needs to be covered so that they can talk easily. So, we are trying to make an online platform which provide these types of facilities.

Chapter 03

Objectives of the Project

Hangout On Tattling is a platform where user can send and receive messages. The objective of this project is allow people to connect with each other and also can view old chat with their friends as well as giving them a facility to add new contacts in their contact list whenever they want.

Chapter 04

Technology being used

Hardware Requirements:

- Computer System with minimum 8GB of RAM

Software Requirements:

- Windows/Linux OS
- Visual Code Studio
- Xampp

Programming language:

- JavaScript
- PHP
- HTML
- CSS

Chapter 05

Software Development Tools

Visual Studio Code

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages (such as C++, C#, Java, Python, PHP, Go) and runtimes (such as .NET and Unity).

Getting up and running with Visual Studio Code is quick and easy. It is a small download so you can install in a matter of minutes and give VS Code a try.

Cross platform

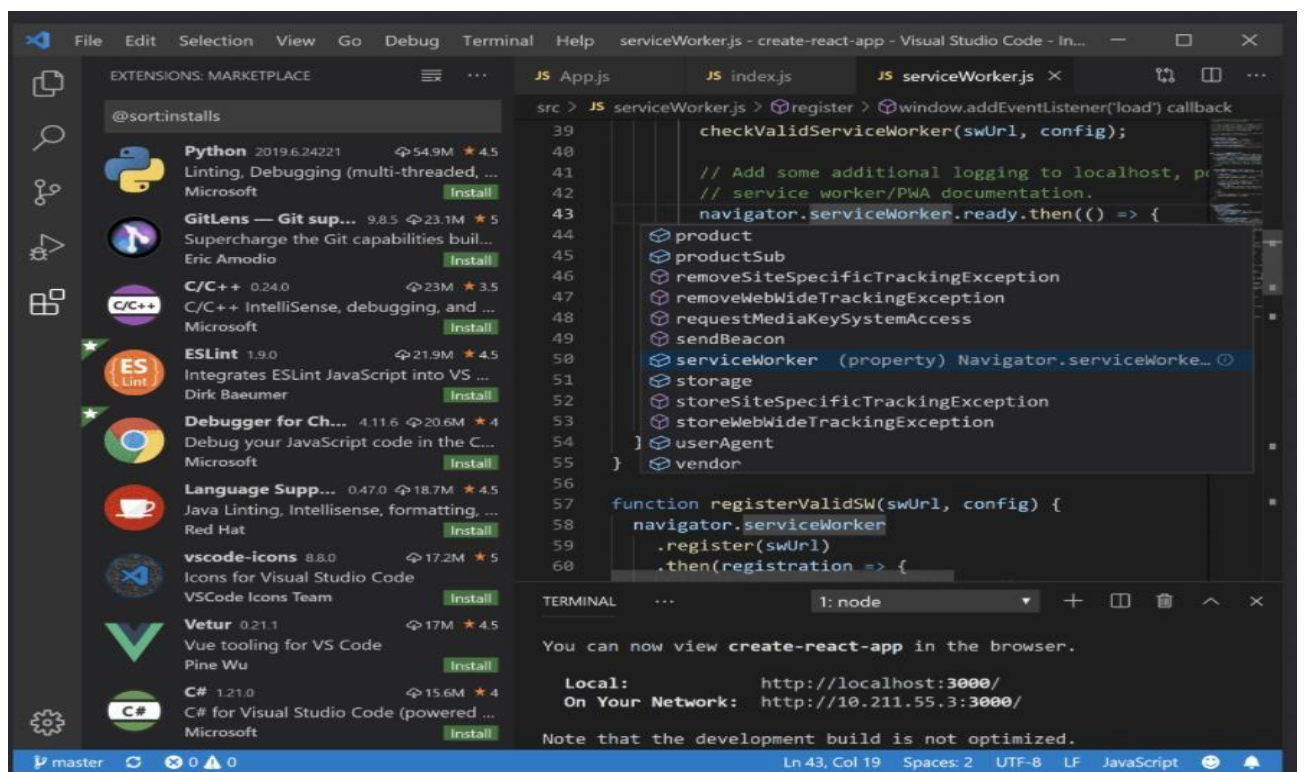
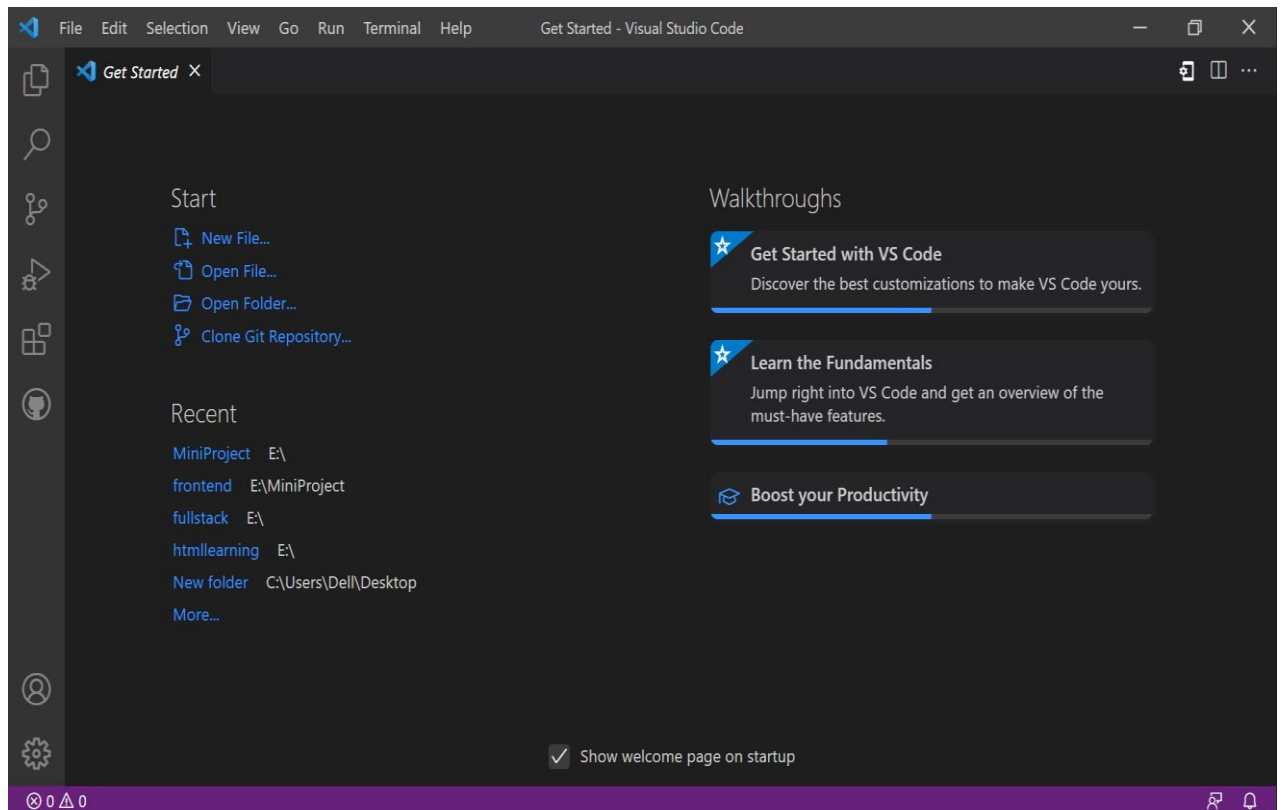
VS Code is a free code editor, which runs on the macOS, Linux, and Windows operating systems.

VS Code is lightweight and should run on most available hardware and platform versions. You can review the System Requirements to check if your computer configuration is supported.

Features :-

- Visual Studio Code is a source-code editor that can be used with a variety of programming languages, including Java, Javascript, GO, Node.js, Python and C++.
- It is based on the Electron framework, which is used to develop Node.js Web applications that run on the Blink layout engine.
- Studio Code employs the same editor component (codenamed "Monaco") used in Azure DevOps (formerly called Visual Studio Online and Visual Studio Team Services).
- Instead of a project system, it allows users to open one or more directories, which can then be saved in workspaces for future reuse.
- Visual Studio Code includes multiple extensions for FTP, allowing the software to be used as a free alternative for web development.
- Code can be synced between the editor and the server, without downloading any extra software.

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Xampp

XAMPP is an abbreviation where *X stands for Cross-Platform*, *A stands for Apache*, *M stands for MySQL*, and *the Ps stand for PHP and Perl*, respectively. It is an open-source package of web solutions that includes Apache distribution for many servers and command-line executables along with modules such as Apache server, MariaDB, PHP, and Perl.

XAMPP helps a local host or server to test its website and clients via computers and laptops before releasing it to the main server. It is a platform that furnishes a suitable environment to test and verify the working of projects based on Apache, Perl, MySQL database, and PHP through the system of the host itself. Among these technologies, Perl is a programming language used for web development, PHP is a backend scripting language, and MariaDB is the most vividly used database developed by MySQL. The detailed description of these components is given below.



Many other components are also part of this collection of software and are explained below.

Cross-Platform: Different local systems have different configurations of operating systems installed in it. The component of cross-platform has been included to increase the utility and audience for this package of Apache distributions. It supports various platforms such as packages of Windows, Linus, and MAC OS.

Apache: It is an HTTP a cross-platform web server. It is used worldwide for delivering web content. The server application has made free for installation and used for the community of developers under the aegis of Apache Software Foundation. The remote server of Apache delivers the requested files, images, and other documents to the user.

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MariaDB: Originally, MySQL DBMS was a part of XAMPP, but now it has been replaced by MariaDB. It is one of the most widely used relational DBMS, developed by MySQL. It offers online services of data storage, manipulation, retrieval, arrangement, and deletion.

PHP: It is the backend scripting language primarily used for web development. PHP allows users to create dynamic websites and applications. It can be installed on every platform and supports a variety of database management systems. It was implemented using C language. PHP stands for Hypertext Processor. It is said to be derived from Personal Home Page tools, which explains its simplicity and functionality.

Perl: It is a combination of two high-level dynamic languages, namely Perl 5 and Perl 6. Perl can be applied for finding solutions for problems based on system administration, web development, and networking. Perl allows its users to program dynamic web applications. It is very flexible and robust.

phpMyAdmin: It is a tool used for dealing with MariaDB. Its version 4.0.4 is currently being used in XAMPP. Administration of DBMS is its main role.

OpenSSL: It is the open-source implementation of the Secure Socket Layer Protocol and Transport Layer Protocol. Presently version 0.9.8 is a part of XAMPP.

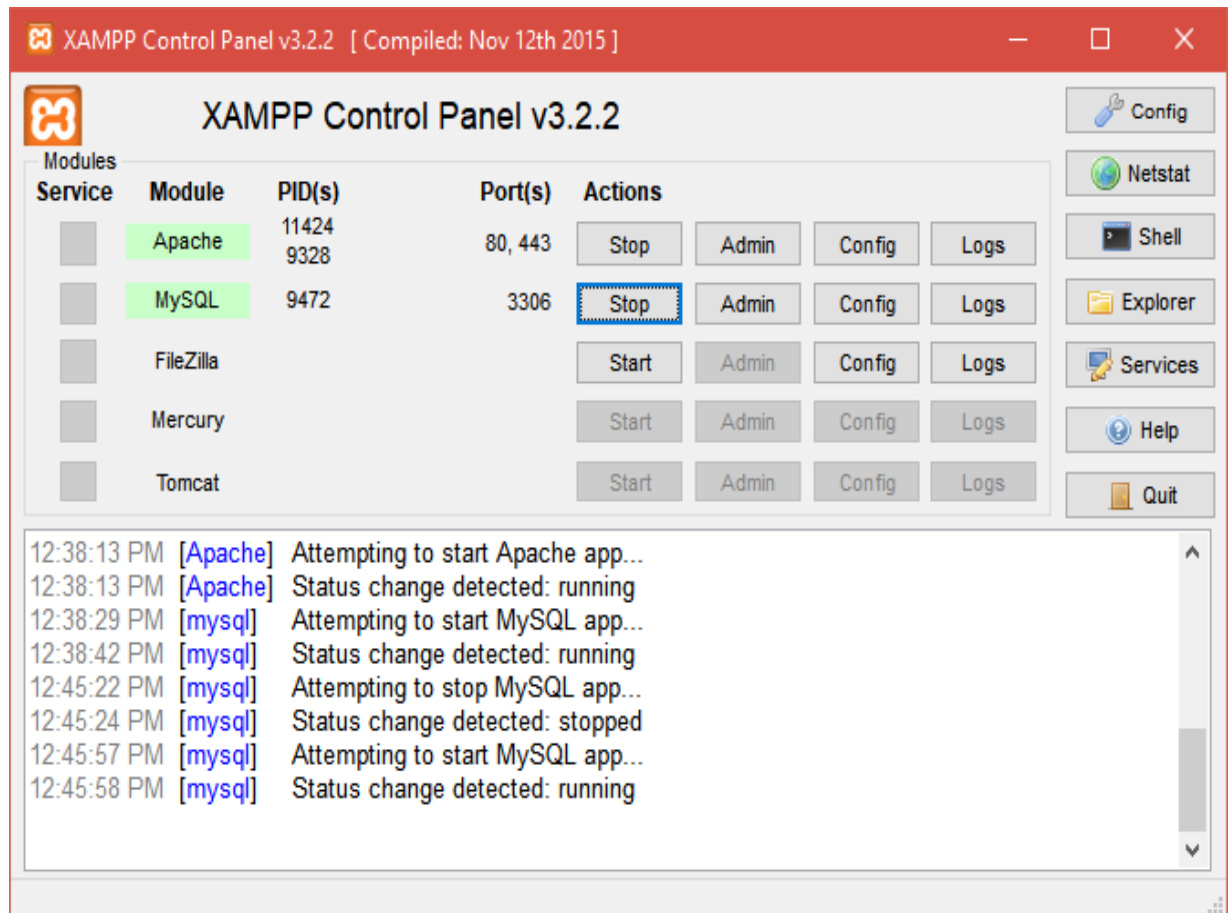
XAMPP Control Panel: It is a panel that helps to operate and regulate upon other components of the XAMPP. Version 3.2.1 is the most recent update. A detailed description of the control panel will be done in the next section of the tutorial.

Webalizer: It is a Web Analytics software solution used for User logs and provide details about the usage.

Mercury: It is a mail transport system, and its latest version is 4.62. It is a mail server, which helps to manage the mails across the web.

Tomcat: Version 7.0.42 is currently being used in XAMPP. It is a servlet based on JAVA to provide JAVA functionalities.

Filezilla: It is a File Transfer Protocol Server, which supports and eases the transfer operations performed on files. Its recently updated version is 0.9.41.



Chapter 06

Methodology

We are using HTML, CSS and Javascript as the frontend with the backend made using PHP database. To see what's inside the website the user has to visit the website. The application will keep records of chats added by different user.

The modules used in this app are listed as follows:

1. Landing Page
2. Registration Page
3. Login Page
4. Contact List
5. View chat of different friends
6. Add new contact in contact List .

Chapter 07

Implementation Details

Webpage based Portal :

We are working on this in two parts viz frontend and backend. Firstly, we are working on backend after that will move towards frontend. There might be some changes in the backend while working with frontend.

1. **Backend development :** The project commences with designing of fundamental contact list and chat schema. Hangout On Tattling will display the contact of user. The message will be sent or receive to backend using Xampp Server.

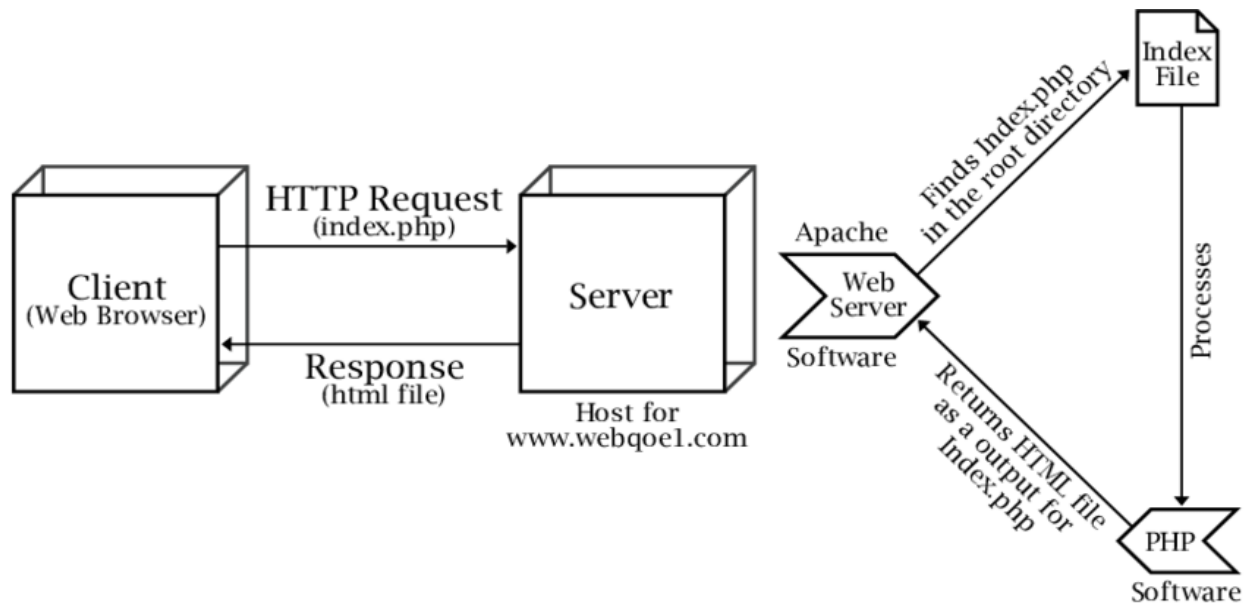
The data will be sent in JSON format.

JSON is a lightweight data-interchange format it is easy for humans to read and write. It is easy for machines to parse and generate.

We are using Xampp Server for cloud storage during development phase because of its flexibility and scalability of document database, available as a fully managed service.

Apache HTTP Server is a free and open-source web server that delivers web content through the internet. It is commonly referred to as Apache and after development, it quickly became the most popular HTTP client on the web. It's widely thought that Apache gets its name from its development history and process of improvement through applied patches and modules but that was corrected back in 2000. It was revealed that the name originated from the respect of the Native American tribe for its resiliency and durability.

Now, before we get too in depth on Apache, we should first go over what a web application is and the standard architecture usually found in web apps.

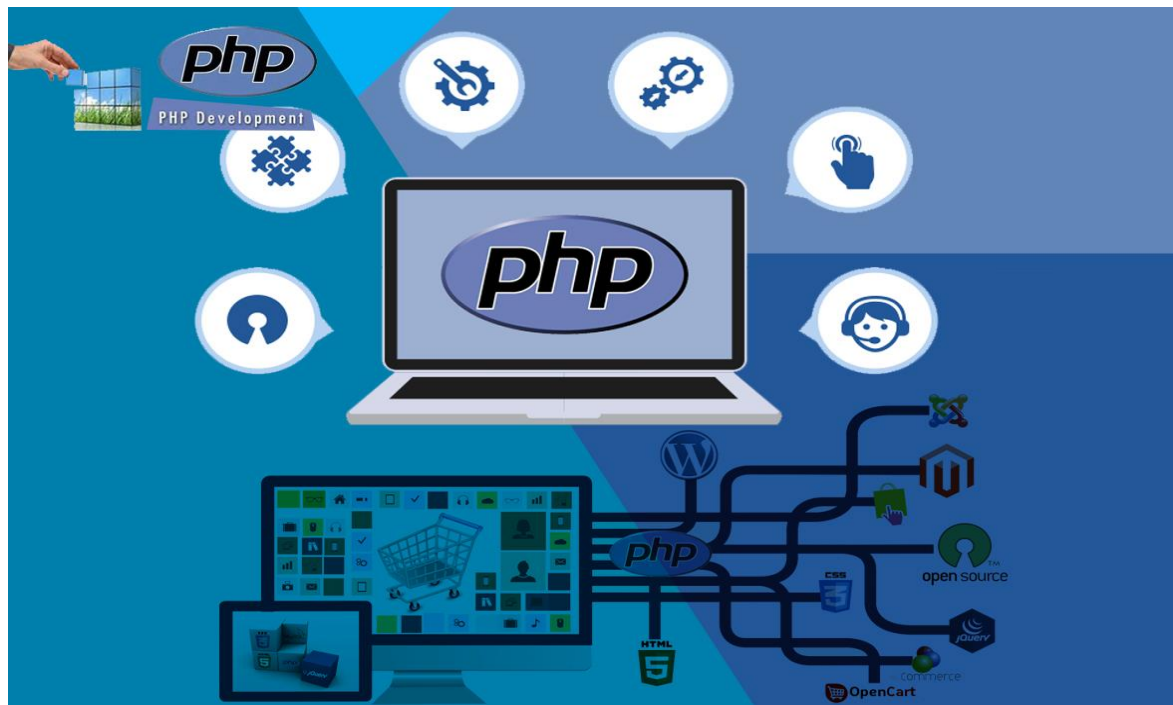


MySQL Cluster is the distributed database combining linear scalability and high availability. It provides in-memory real-time access with transactional consistency across partitioned and distributed datasets. It is designed for mission critical applications.

MySQL Cluster has replication between clusters across multiple geographical sites built-in. A shared nothing architecture with data locality awareness make it the perfect choice for running on commodity hardware and in globally distributed cloud infrastructure.



PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of an HTTP response. Various web template systems, web content management systems, and web frameworks exist which can be employed to orchestrate or facilitate the generation of that response. Additionally, PHP can be used for many programming tasks outside the web context, such as standalone graphical applications[11] and robotic drone control.[12] PHP code can also be directly executed from the command line.



2. Frontend development : We will be using HTML,CSS and Javascript for frontend development part.

HTML stands for Hyper Text Markup Language. HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content

JavaScript is a high-level, often just-in-time compiled language that conforms to the ECMAScript standard. It has dynamic typing, prototype-based object-orientation, and class functions. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

Chapter 09 SCREENSHOT

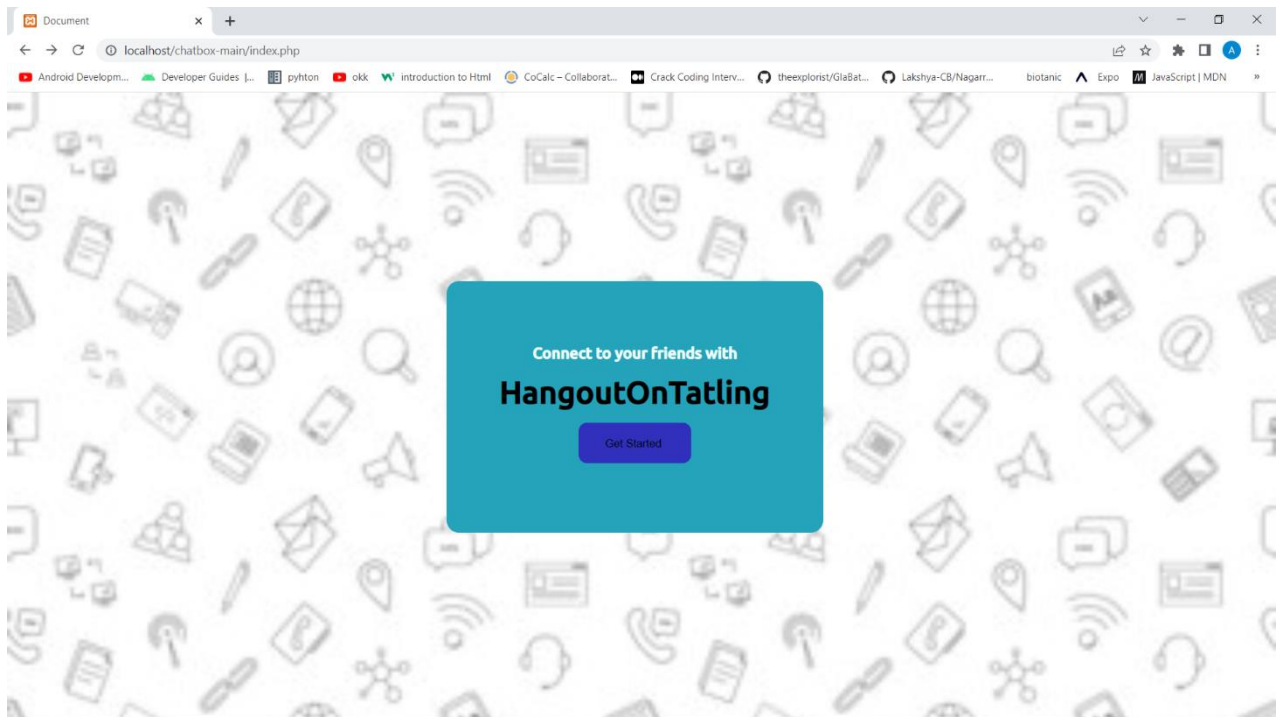
Webpage based Portal:

Successfully linked Project with MongoDB: -

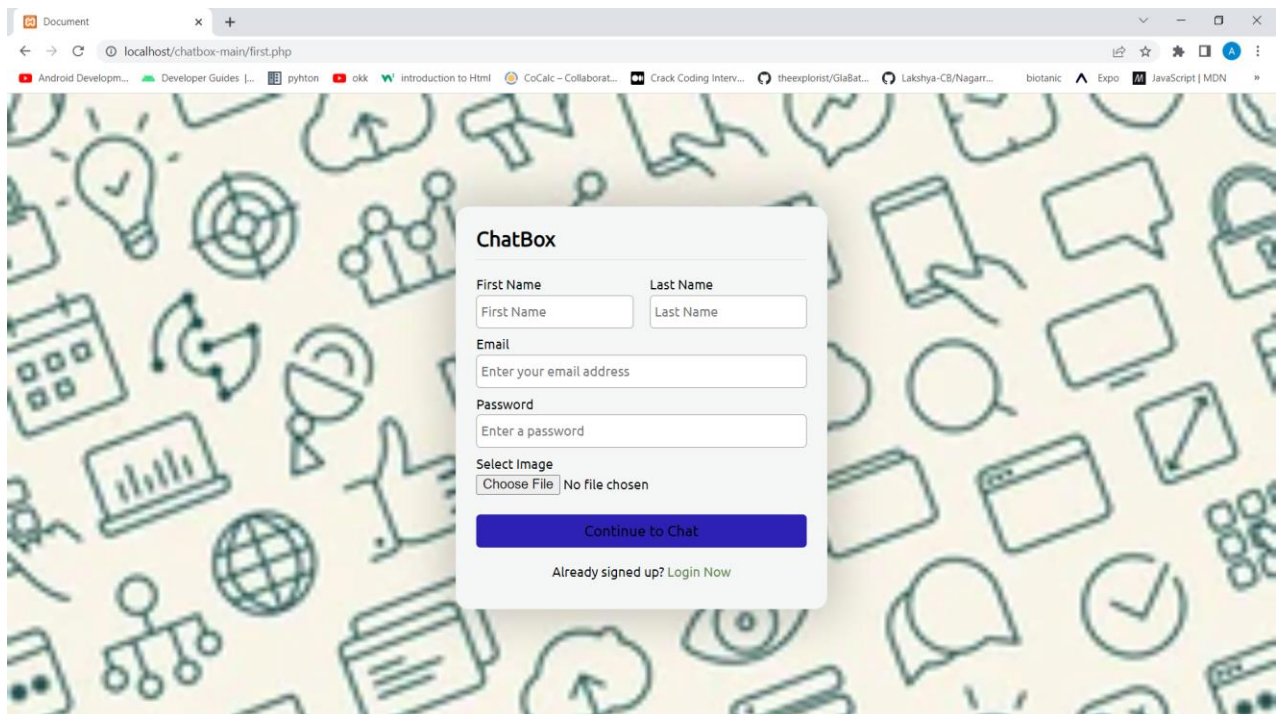
Running Backend

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <style>
9     @import url('https://fonts.googleapis.com/css2?family=My+Soul&family=Ubuntu:wght@500&display=swap');
10
11     {
12       padding:0px;
13       margin:0px;
14     }
15   }
16   body{
17     background-image: url('https://t3.ftcdn.net/jpg/01/99/79/88/240_F_199798886_PAFfwGapieGMk8lqgKhbHIIa9LwQcvQr.jpg');
18     background-repeat: no-repeat;
19     background-attachment: fixed;
20     background-size: cover;
21   }
22   .mainn{
23     align-items: center;
24     text-align: center;
25     justify-content: center;
26     margin-top: 30vh;
27     margin-right: 45vh;
28     margin-left: 70vh;
29     padding-top: 10vh;
30     height: 30vh;
31     width: 60vh;
32     background-color: rgb(153, 208, 167);
33     border-radius: 2vh;
34   }
35   .mainn h2{
36     color: #90c76d;
```

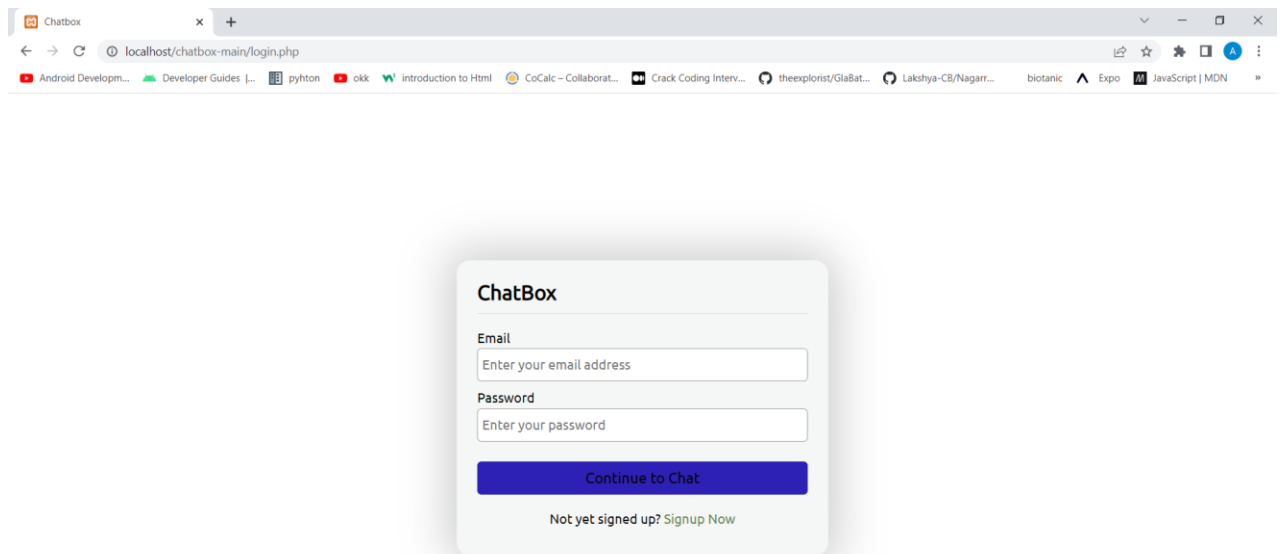
Landing Page



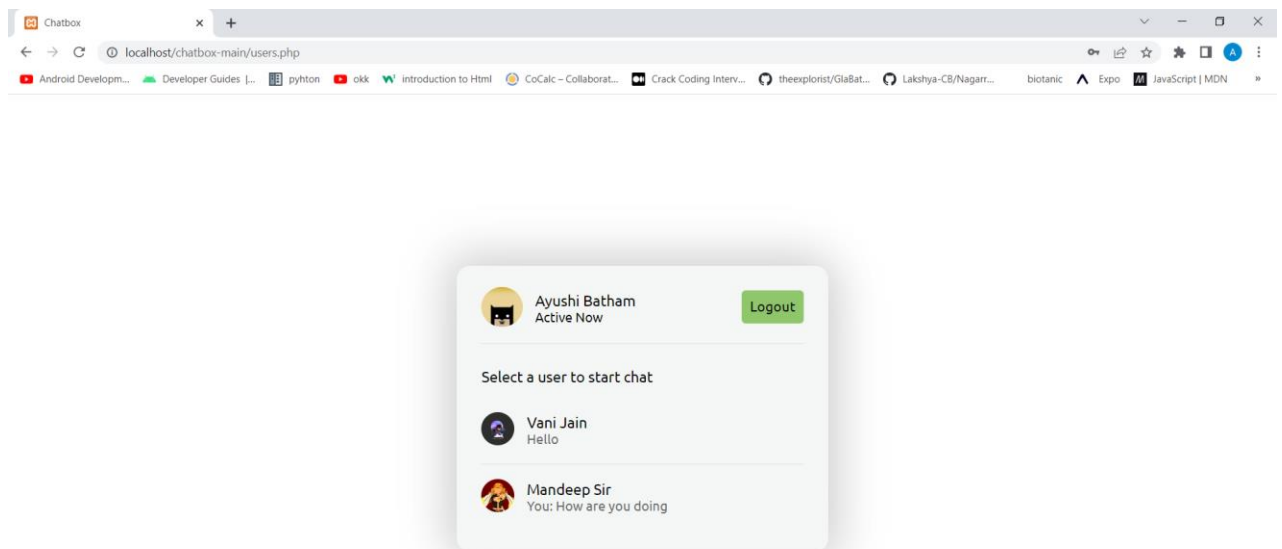
Registration Page



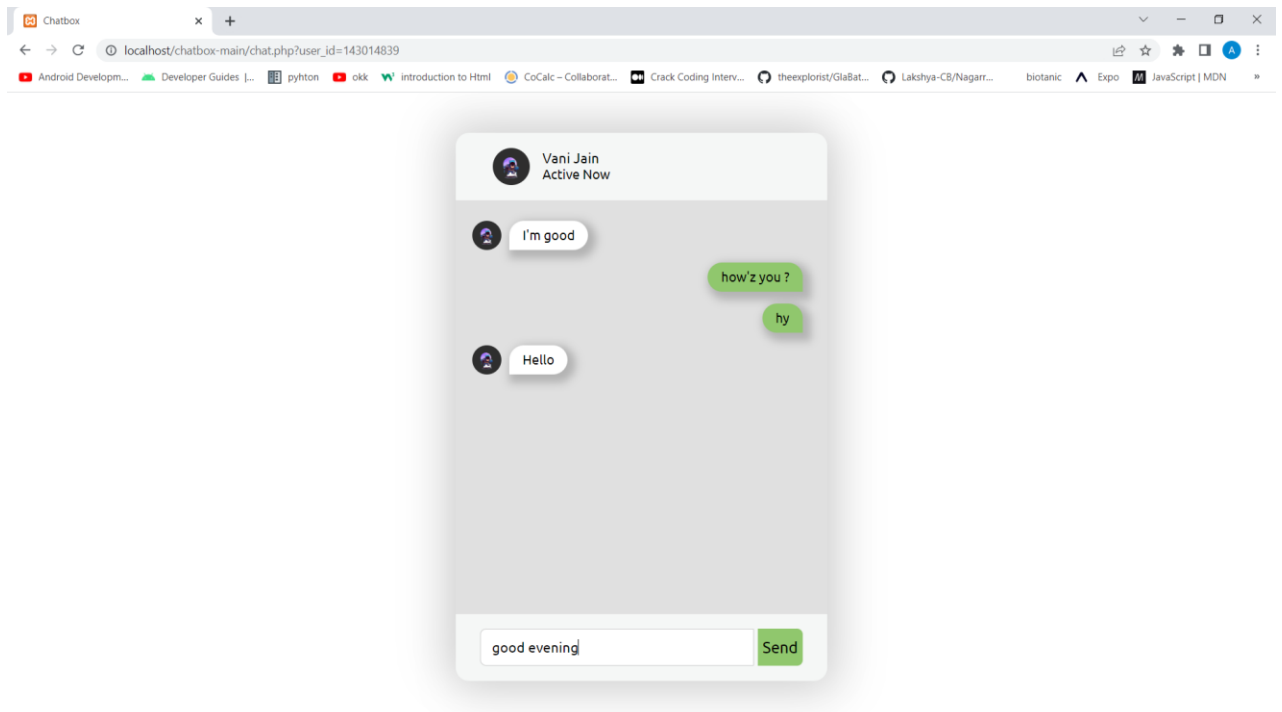
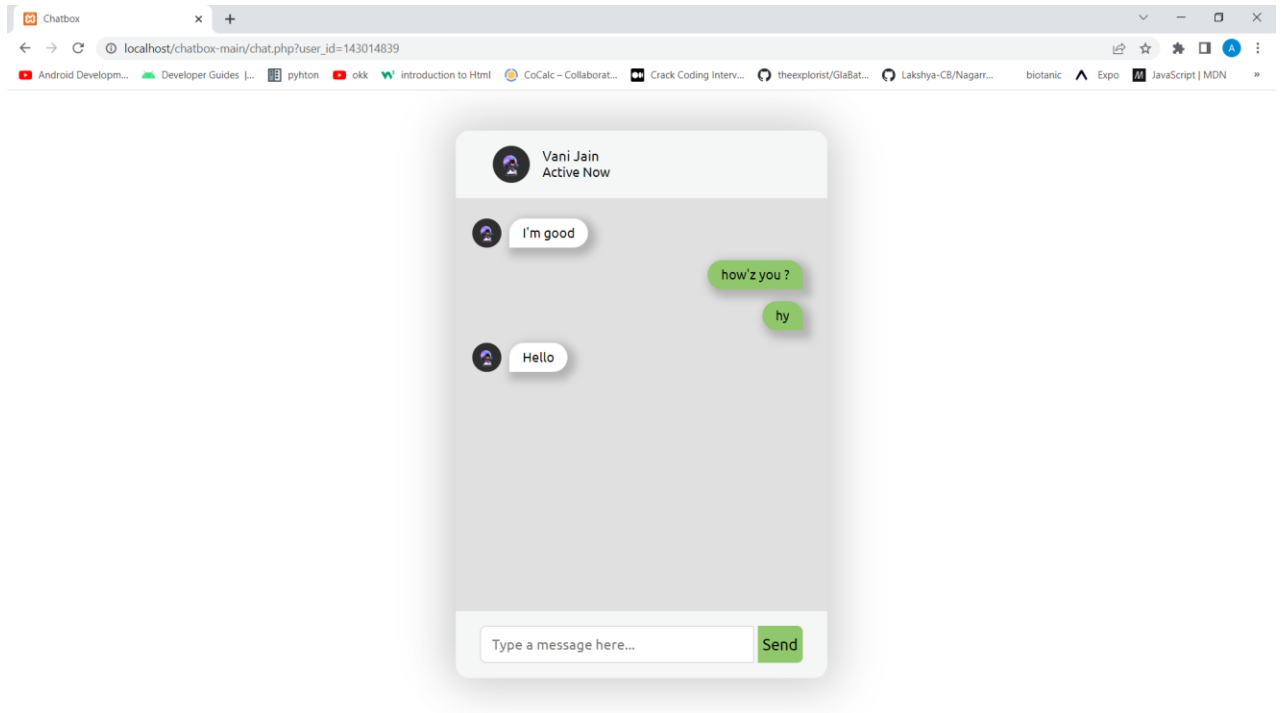
Login Page



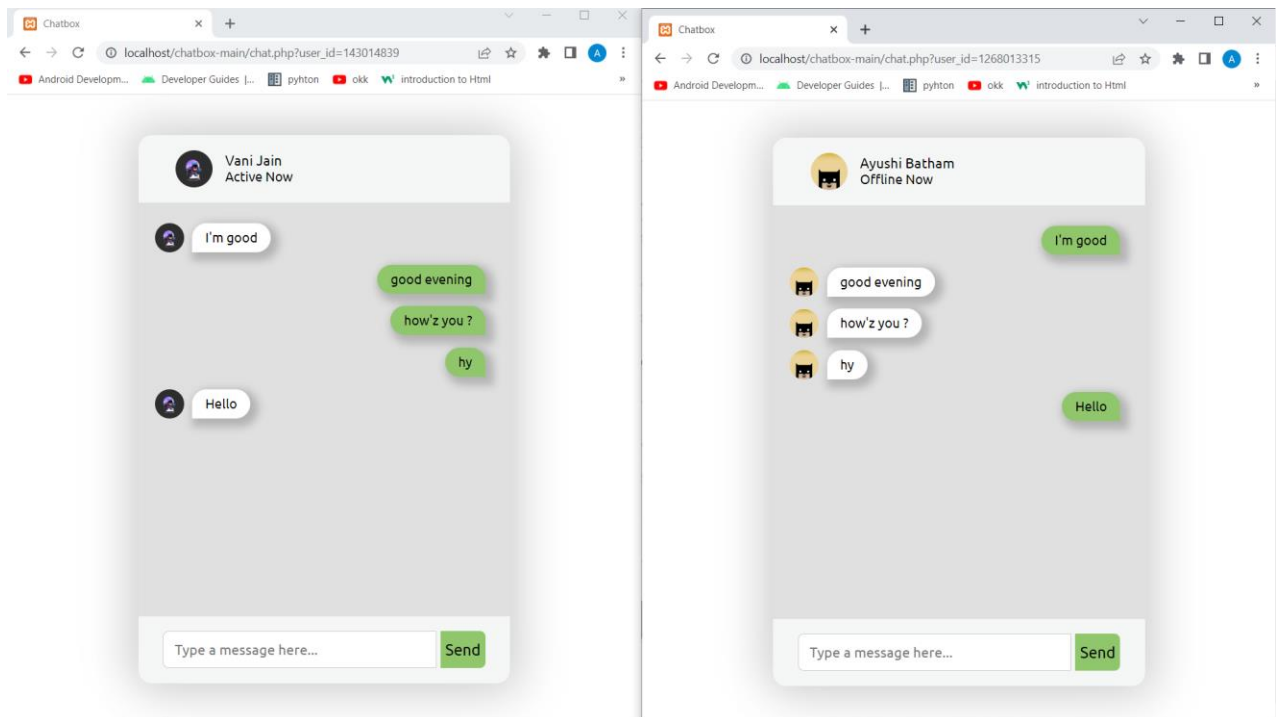
Displaying contact List of user after login into their account



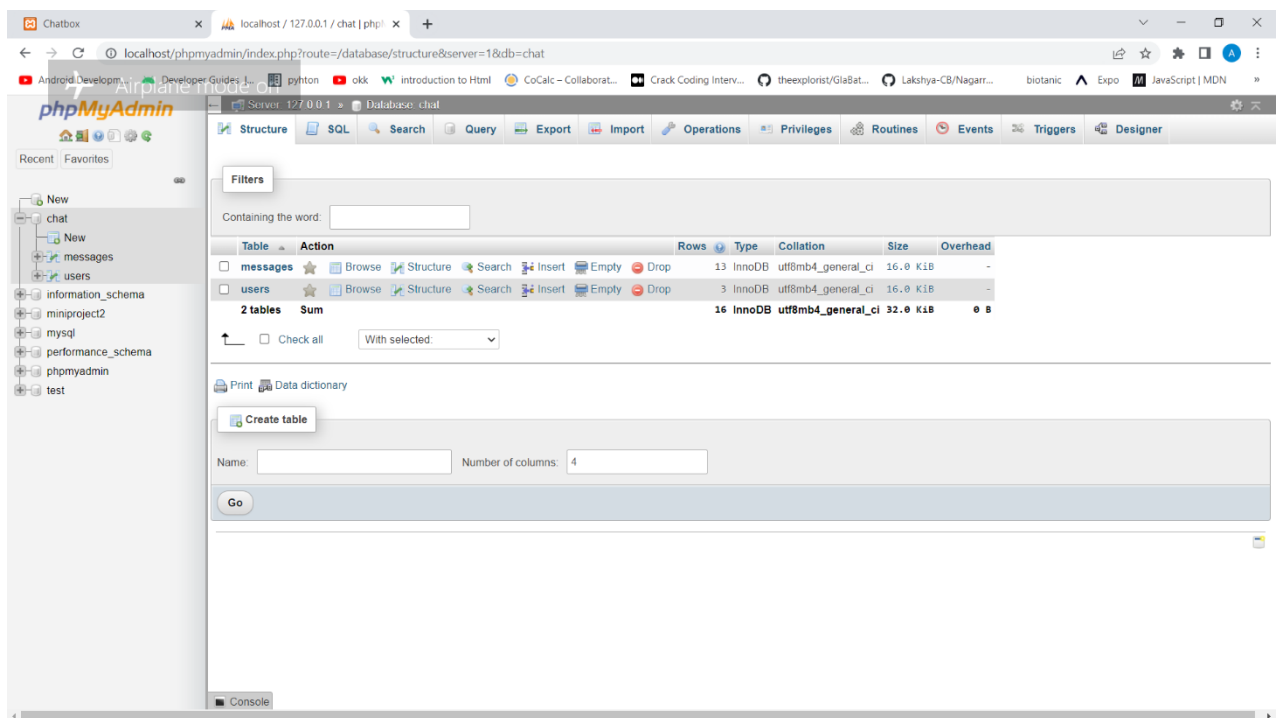
Chat of particular user with their friend.



Chat of both the user sender as well as receiver



Chat Database



Details of Chat Database messages datatable

Showing rows 0 - 12 (13 total, Query took 0.0003 seconds.)

`SELECT * FROM `messages``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows:

Options

msg_id	incoming_msg_id	outgoing_msg_id	msg
1	360510760	143014839	Hello mam
2	360510760	1268013315	How are you
3	1268013315	360510760	I am good
4	1268013315	360510760	How is life
5	1268013315	360510760	Who are you?
6	360510760	1268013315	I am shafqat
7	1268013315	360510760	oh ok
9	360510760	1268013315	How are you doing
13	1268013315	143014839	Hello
0	143014839	1268013315	try
0	143014839	1268013315	how'z you ?
0	1268013315	143014839	i'm good
0	143014839	1268013315	good evening

☐ Show all | Number of rows: 25 | Filter rows:

Query results operations

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#) [Create view](#)

Console

Details of Chat Database user datatable