**Create a simple chat application using Flask that allows users of the site to view recent messages (in chronological order) and to post their own messages. Use a SQLite database to store the messages. The application does not need to have any authentication system; instead, it can prompt for both a username and a message in the submission form.**

## Assignment

I used the feature A (Authentication) in which user have to put their name and room name in the form. If it is not authenticated it cannot be enter in the chat room. And also please copy the command in the **command.txt** and run in the cmd to install the dependencies.

## How to Test

Run the main program `app.py`, which is a Flask app that listens for HTTP connections at the default address and port number that Flask selects (typically, localhost:5000). Make sure that you have internet connected to the computer. When the app is starting an authentication form is appeared, there you have to put the Username and the room name and start chat button. After Putting the details, you have to press the button to enter in the room.

The main program requires the SQLite database `database.db` which is created if it is missing. The conversation of the users inside the room is store in the database.db. The script `resetdb.py` can be used to create the database if it is missing, or to clear the contents of an existing one.

## Personal Contribution

I designed and wrote the entire application from scratch: The Python programs,

database schema and queries, HTML template, and CSS stylesheet. The design uses things like HTML templating, session data, socketIO ,Flask , Flask-session , and bootstrap and little bit of jquery.

## Sources and credits

For Some styling I take help from the

(<https://w3schools.com/>)

Also take some help from youtube for the socket connection.

(https://www.youtube.com/watch?v=q42zgGaYYzE)