

Python Technical Assignment – Riktamtech

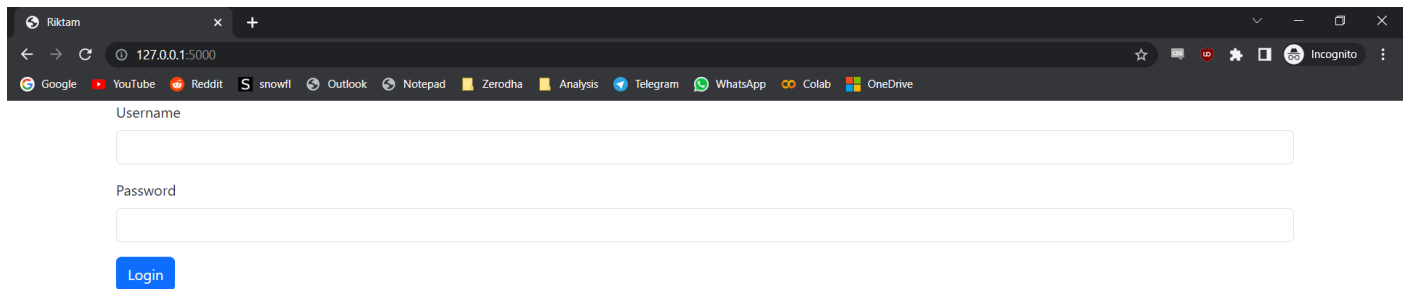
System Requirements:

Windows 10, Python 3.7 or above, flask, flask_sqlalchemy, flask_login and flask_socketio modules

User Guide:

To start the program, run the command “python demoCode.py” from the folder where the script is located. A sqlite database is created (if it does not exist already) in the same folder with a default admin and user profile.

1. Enter the URL <http://127.0.0.1:5000/> to access the home page

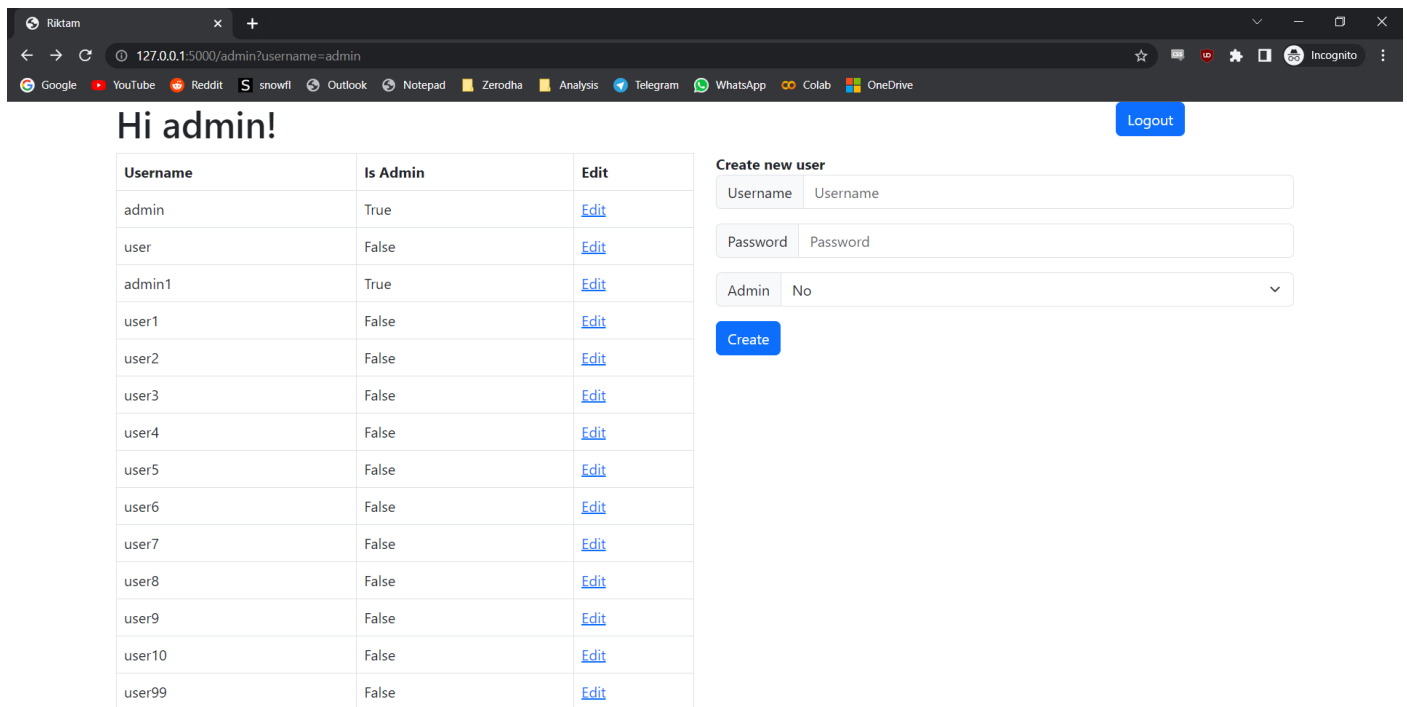


The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000". The browser's taskbar at the bottom lists various applications including Google, YouTube, Reddit, snowfl, Outlook, Notepad, Zerodha, Analysis, Telegram, WhatsApp, Colab, and OneDrive. The main content area of the browser displays a login form with the following elements:

- A label "Username" above a text input field.
- A label "Password" above a text input field.
- A blue button labeled "Login" positioned below the password field.

Admin module

2. Login as admin with the credentials username - admin and password – admin. The admin dashboard lists all the users and admins currently present in the database.



The screenshot shows a web browser window with the URL `127.0.0.1:5000/admin?username=admin`. The page displays a greeting "Hi admin!" and a "Logout" button. On the left, there is a table listing users and their admin status. On the right, there is a form to create a new user.

Username	Is Admin	Edit
admin	True	Edit
user	False	Edit
admin1	True	Edit
user1	False	Edit
user2	False	Edit
user3	False	Edit
user4	False	Edit
user5	False	Edit
user6	False	Edit
user7	False	Edit
user8	False	Edit
user9	False	Edit
user10	False	Edit
user99	False	Edit

Create new user

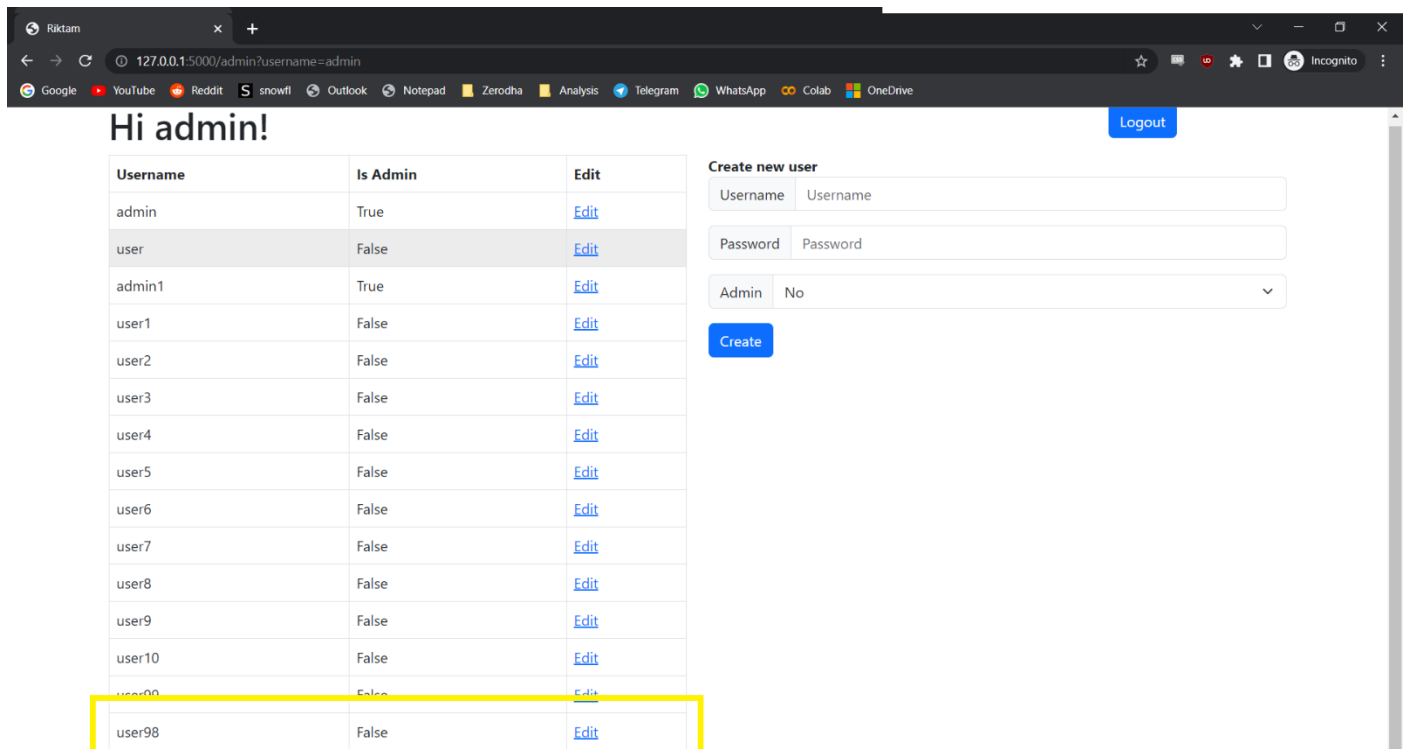
Username

Password

Admin ☐ No ☒

[Create](#)

3. A new user can be created using the form on the right side of the page. If user creation is successful the user details will be show on the left pane.



The screenshot shows the same admin dashboard as before, but with a new user, "user98", added to the list. The "user" entry in the table is now highlighted in grey. The "user98" entry is highlighted with a yellow box.

Username	Is Admin	Edit
admin	True	Edit
user	False	Edit
admin1	True	Edit
user1	False	Edit
user2	False	Edit
user3	False	Edit
user4	False	Edit
user5	False	Edit
user6	False	Edit
user7	False	Edit
user8	False	Edit
user9	False	Edit
user10	False	Edit
user99	False	Edit
user98	False	Edit

Create new user

Username

Password

Admin ☐ No ☒

[Create](#)

4. Else if there is an error while creating the profile, user is notified of the same.

Create new user

Username	user98
Password
Admin	No

Create

- Error creating, please try again

5. User details can be edited by clicking on the corresponding “Edit” link. The username, password and role can be updated from this page and upon submitting the form, we are redirected to the admin dashboard.

Riktam x +

127.0.0.1:5000/edit_user/14

Google YouTube Reddit snowfl Outlook Notepad Zerodha Analysis Telegram WhatsApp Colab OneDrive

Incognito

Hi admin!

Logout

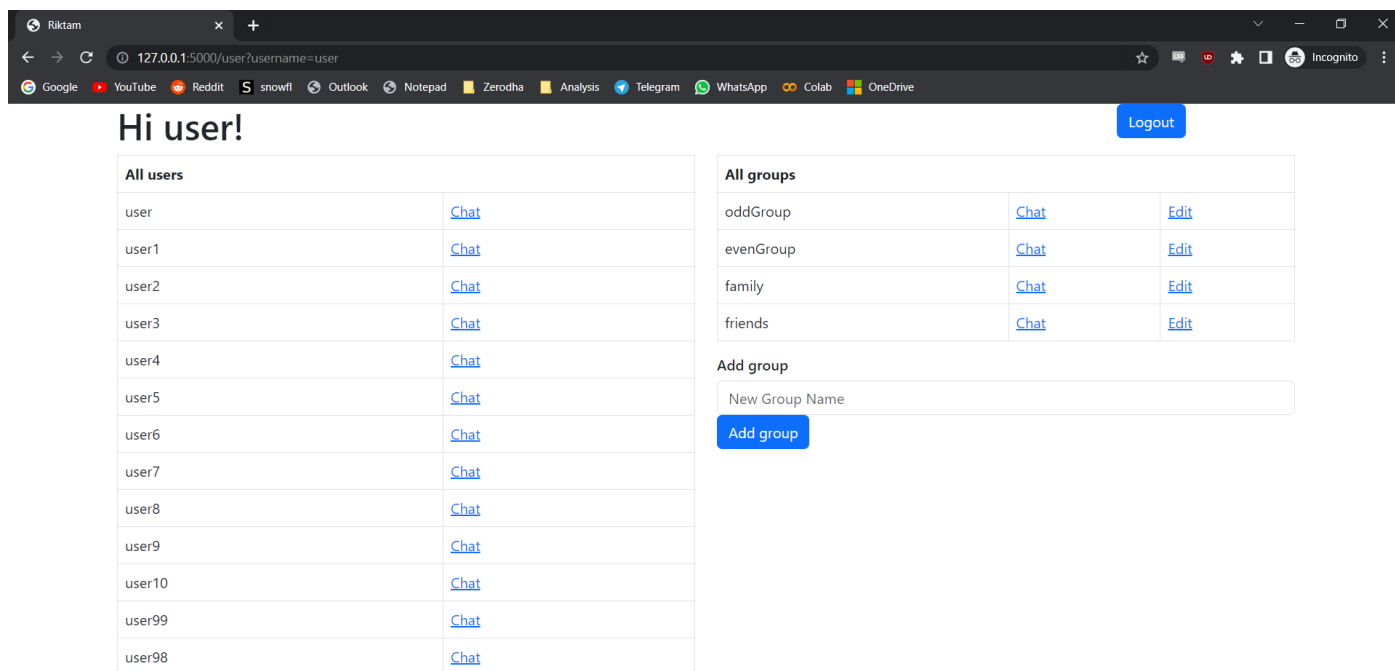
Editing details for user : user99

Username	user97
Password
Admin	No

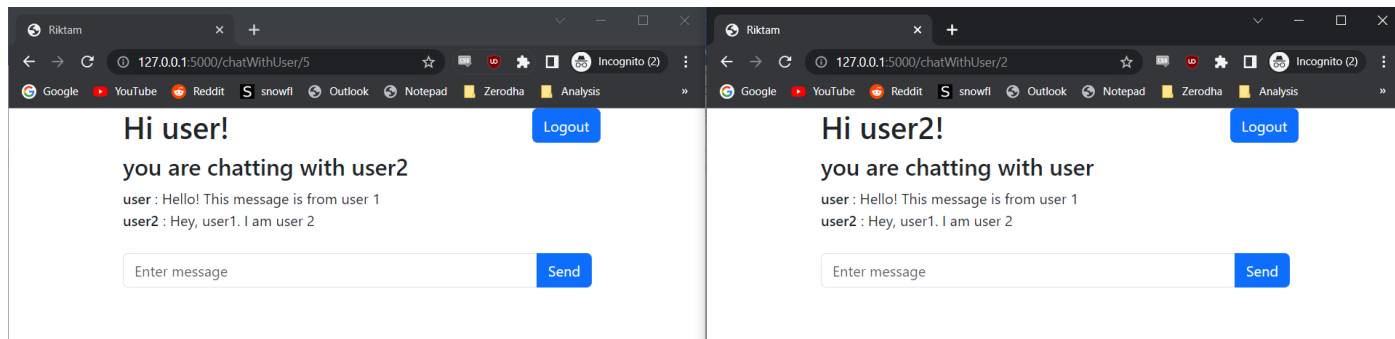
Edit

User module

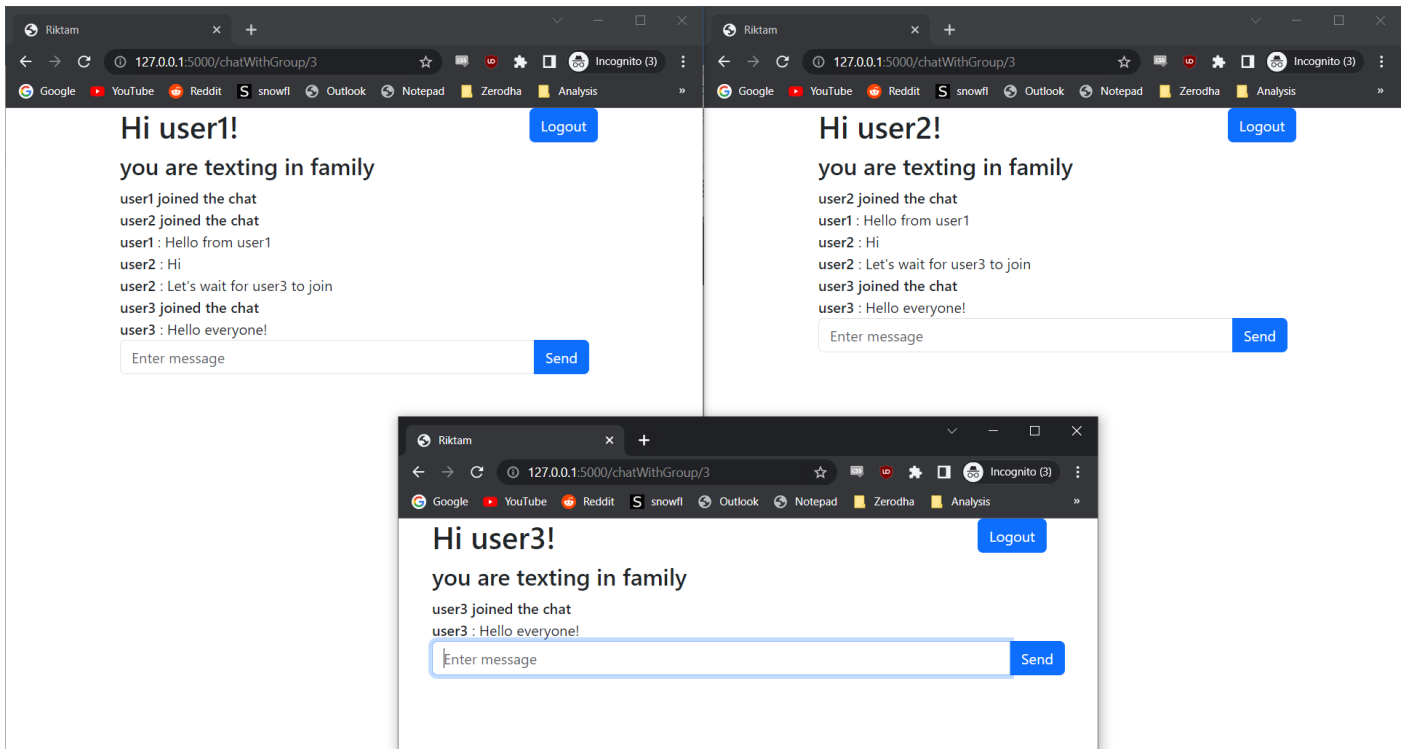
6. On logging in as a user, we get an option to chat with all other users (non admins) or join any other group. Users also have an option to add a new group on the right.



7. Users can select any other user's profile and start a conversation with them. For example, in the below image 'user' and 'user2' are texting each other.

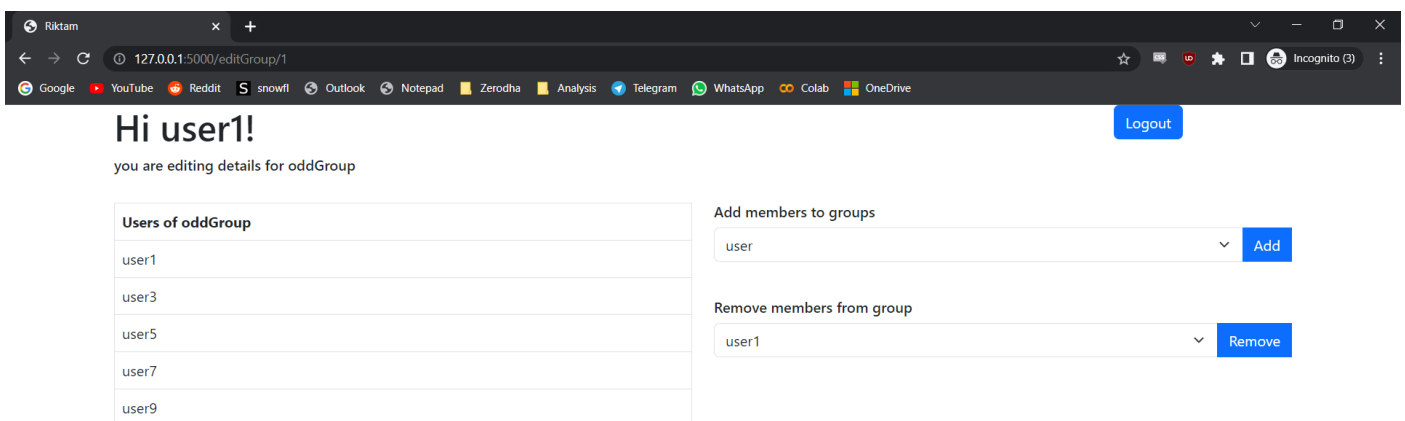


8. Users also have the option to start a group chat, like shown in the below example where 'user1', 'user2' and 'user3' are texting in the 'family' group



9. Users can also add and remove other users from the group using the edit option. Users who are not already in the group can be selected from the dropdown and added to the current group.

Whereas, users who are already a part of the group can be removed using the remove dropdown.



10. The 'Logout' button takes the users to the homepage and clears the current session data.

Logout

Create new user

Username Username

Password Password

Admin No



Create