1. Start

2. Initialize database connection

3. Function signUp(username, password):

- Create new user entry in database with provided username and password

4. Function login(username, password):

- Check if username and password match database records

- If match found:

- Update user status to online in the database

- Display homepage with logged-in user's data

- Else:

- Display error message

5. Function logout(username):

- Update user status to offline in the database

- Clear session

- Redirect to login page

6. Function sendMessage(username, message):

- Append message to log file

- Display message on homepage

7. Main program:

- Loop:

- Display login/signup options

- If user chooses signup:

- Call signUp function

- If user chooses login:

- Call login function

- If login successful:

- Redirect to homepage

- If user sends message:

- Append message inside the log file

- Call sendMessage function

- If user chooses logout:

- Call logout function

- If user chooses exit:

- Exit loop

8. End