* **User registration and login:**
  + Create a registration form with fields for email, username, and password
  + Validate that the email address is in the correct format and that the username and password meet certain criteria (e.g. minimum length, no spaces)
  + Implement a password hashing algorithm (e.g. bcrypt, 0auth) to securely store passwords in the database
  + Create a login form with fields for email or username and password
  + Verify that the entered email or username and password match a record in the database
  + Implement a session management system to keep track of logged-in users (e.g. by storing a session ID in a cookie)
* **Public and private chat rooms:**
  + Create a database table to store information about the different chat rooms (e.g. name, type [public/private], password if private)
  + Allow users to create new chat rooms by providing a name and choosing whether it should be public or private
  + Allow users to join existing chat rooms by searching for the name or browsing a list of available chat rooms
  + Implement access control for private chat rooms (e.g. only allowing certain users to join if they provide the correct password)
  + Implement the ability to leave a chat room
* **Real-time messaging:**
  + Use a technology such as WebSockets to establish a real-time connection between the client and server
  + Allow users to send and receive messages in real-time
  + Implement the ability to see the typing status of other users
  + Implement the ability to send messages to specific users or groups
* **Ability to mute or block other users:**
  + Allow users to mute other users (i.e. not receive notifications or messages from them)
  + Allow users to block other users (i.e. not receive messages or not see them in the chatroom)
  + Implement a feature to un-mute or un-block users
  + Allow users to see the list of blocked or muted users
* **Option for user roles (admin, moderator, user):**
  + Create different user roles (admin, moderator, user)
  + Assign different permissions to each user role (e.g. only admins can delete chat rooms)
  + Implement a feature to assign roles to users
  + Allow users to change their roles
  + Implement a feature to promote or demote users
* **Option for filtering profanity:**
  + Create a list of profanity words or use an existing list
  + Implement a system to check for profanity in messages before they are sent
  + Option to automatically censor the profanity words or reject the message
  + Implement a feature to report offensive messages
  + Implement a feature to view the list of filtered words