

Your task is to write a real-time chat room web app interface.

## Boilerplate

Search for "**demo chat boilerplate**" on GitHub

<https://github.com/SpotIM/demo-chat-boilerplate>

You will find the relevant resources in the **resources.txt** file at the root of the project.

## Spec

### 1. Message Creation Area

- a. Area will be fixed to the bottom of the screen.
- b. Text field for username.
  - i. Should be persistent across browser refreshes.
- c. Textarea for text.
  - i. Should be cleared after each message is sent.
- d. Send button to send text messages.
- e. An avatar image
  - i. Each user will randomly receive one of 5 avatar images.
  - ii. Avatar images should be persistent across browser refreshes
- f. Users can't send empty messages

### 2. Message List Area

- a. You'll render a list containing incoming chat messages, including your own messages.
- b. Rendered chat messages should show the avatar, username and chat message.
- c. Your own messages will have a different background color than other chat messages.

### 3. Socket.IO integration

- a. You will use the Spot.IM Socket.IO chat server in order to send and receive messages. Endpoint and chat event name is found under **resources.txt** of the boilerplate.
- b. When the user sends a message you should use socket io to send messages in the following format: **{avatar:"...",username:"...",text:"..."}** 
  - i. You may add additional fields if you like.
- c. You should listen for and render incoming chat messages.

### 4. Testing

- a. Write meaningful tests of your source code with whatever framework you'd like.
- b. Testing Should include **one or two** of the following test types:
  - i. Business logic unit tests.
  - ii. Component snapshot tests.
  - iii. End to end tests.
- c. Should run by writing "npm test"

## Submission

1. Push your finished work to a public GitHub repository under your account, named ***chat-ui***.
  - a. Leave the GitHub description field empty
2. Send an email with the subject **Exercise Submission** with a GitHub link to **dor@spot.im**.
3. In the email, honestly mention how long did it take you to complete the exercise.
4. Leave at least **1 screenshot** in the **screenshots** folder.
5. Be sure to fill the **comments.txt** file if you have relevant comments

## Key Points and Tips

1. You should use whatever JavaScript stack you're most comfortable with. We want to see you at your best.
2. You don't have to use the provided boilerplate. Be sure to copy **resources.txt** and the **screenshots** folder if you're using something else.
3. Make sure your components and business logic are designed reasonably. They will be reviewed.
4. Write coherent code and meaningful comments where necessary.
5. Your UI should look somewhat presentable and logically positioned. It doesn't have to be perfect by any means however.
  - a. We recommend using a library like Bootstrap, Semantic UI, Material UI or whatever you feel comfortable with.