

Unit Test  
**Chatroom Module**  
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Functions:

componentDidMount()  
loadChat()  
submitMessage(e)  
getUserID()  
kickUser()  
getUserList()  
makeAdmin()

Unit Tests:

componentDidMount():

- Tested this component by continuously refreshing the page and checking to see if it throws a null exception when calling getUserID()

submitMessage():

- Tested this component by entering text into a textbox and by clicking submit, the text should load into the database
- Tested if sending an empty message will appear in the Chatroom box
- Tested if sending a message while not in a room does not send a message
- Tested to see if a long word(Eg. A sentence without spaces) stays encapsulated in a chat bubble

loadChat()

- Tested to see if when a user sends a message the list of messages from firebase appeared as an array in the console
- Tested by sending a message and checking to see if it appears in the chatroom box of all users
- Tested by logging in as another user in the same room and sending a message to see if the messages load in to both user

getUserID()

- Tested this component by printing the userID to the console and checking if it is the expected userID on page load

kickUser():

- Tested this component by checking the database if when a user is kick, the user is removed from the room's list of users
- Tested if a user who is not a admin can kick a user

#### `getUserList()`

- Tested retrieving the user list from firebase by printing the array of users to the console
- Tested this component by checking if the user joins another room, the user list is updated with the appropriate list of users
- Tested by checking if the user is not in a room then there will be an empty list of users under the users tab

#### `makeAdmin()`

- Tested this component by checking to see if the current admin remains admin when they leave the room
  - They remain admin because they are still a member of that room
- Tested by printing the user id of the current admin to console