

COMP 4300 A1 Functionality Screenshots

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View list of existing chat rooms:

```
Dillan - No chatroom: gc

----- Chatroom Directory -----

Name: Chatroom 1
ChatroomId: 1

Name: Chatroom 2
ChatroomId: 2

Name: Chatroom 3
ChatroomId: 3
```

View number and list of connected users for each room:

```
Dillan - No chatroom: gcu

----- Chatroom Directory -----

Name: Chatroom 1
ChatroomId: 1
Capacity: 0/5

Name: Chatroom 2
ChatroomId: 2
Capacity: 5/5
    |- Dillan 2 (Id: 1)
    |- Dillan 3 (Id: 2)
    |- Dillan 4 (Id: 3)
    |- Dillan 5 (Id: 4)
    |- Dillan 6 (Id: 5)

Name: Chatroom 3
ChatroomId: 3
Capacity: 1/5
    |- Dillan 7 (Id: 6)

Dillan - No chatroom: □
```

Cannot join chatroom if full:

```
Name: Chatroom 2
ChatroomId: 2
Capacity: 5/5
    |- Dillan 2 (Id: 1)
    |- Dillan 3 (Id: 2)
    |- Dillan 4 (Id: 3)
    |- Dillan 5 (Id: 4)
    |- Dillan 6 (Id: 5)
```

```
Name: Chatroom 3
ChatroomId: 3
Capacity: 1/5
    |- Dillan 7 (Id: 6)
```

```
Dillan - No chatroom: join 2
Chatroom is full.
```

Can join chatroom if there is space:

```
Name: Chatroom 3
ChatroomId: 3
Capacity: 1/5
    |- Dillan 7 (Id: 6)
```

```
Dillan - No chatroom: join 3
Joined chatroom 3: Chatroom 3
Type ':leave; to leave the chatroom
```

```
----- Chatroom 3 -----
```



Leave chatroom:

```
Dillan - No chatroom: join 3
Joined chatroom 3: Chatroom 3
Type ':leave; to leave the chatroom

----- Chatroom 3 -----

:leave

Dillan - No chatroom: 
```

Leaving chatroom removes the user from the list:

```
Dillan - No chatroom: join 3
Joined chatroom 3: Chatroom 3
Type ':leave; to leave the chatroom

----- Chatroom 3 -----

:leave

Dillan - No chatroom: gcu

----- Chatroom Directory -----

Name: Chatroom 1
ChatroomId: 1
Capacity: 0/5

Name: Chatroom 2
ChatroomId: 2
Capacity: 5/5
    |- Dillan 2 (Id: 1)
    |- Dillan 3 (Id: 2)
    |- Dillan 4 (Id: 3)
    |- Dillan 5 (Id: 4)
    |- Dillan 6 (Id: 5)

Name: Chatroom 3
ChatroomId: 3
Capacity: 1/5
    |- Dillan 7 (Id: 6)

Dillan - No chatroom: 
```

Create Chatroom:

```
Dillan - No chatroom: create Chatroom 4  
Created Chatroom Chatroom 4 (id: 4)
```

```
Dillan - No chatroom: gc  
  
----- Chatroom Directory -----  
  
Name: Chatroom 1  
ChatroomId: 1  
  
Name: Chatroom 2  
ChatroomId: 2  
  
Name: Chatroom 3  
ChatroomId: 3  
  
Dillan - No chatroom: create Chatroom 4  
Created Chatroom Chatroom 4 (id: 4)  
Dillan - No chatroom: gc  
  
----- Chatroom Directory -----  
  
Name: Chatroom 1  
ChatroomId: 1  
Capacity: 0/5  
  
Name: Chatroom 2  
ChatroomId: 2  
Capacity: 5/5  
  |- Dillan 2 (Id: 1)  
  |- Dillan 3 (Id: 2)  
  |- Dillan 4 (Id: 3)  
  |- Dillan 5 (Id: 4)  
  |- Dillan 6 (Id: 5)  
  
Name: Chatroom 3  
ChatroomId: 3  
Capacity: 1/5  
  |- Dillan 7 (Id: 6)  
  
Name: Chatroom 4  
ChatroomId: 4  
Capacity: 0/5  
  
Dillan - No chatroom: 
```

Send messages to chatrooms. This example has 3 clients conversing:

User Dillan:

```
Dillan - No chatroom: join 3
Joined chatroom 3: Chatroom 3
Type ':leave; to leave the chatroom

----- Chatroom 3 -----

Hello
Dillan (7): Hello
John (8): Hi!
Jane (9): Hello !!
█
```

User Jane:

```
Jane - No chatroom: join 3
Joined chatroom 3: Chatroom 3
Type ':leave; to leave the chatroom

----- Chatroom 3 -----

Dillan (7): Hello
John (8): Hi!
Hello !!
Jane (9): Hello !!
█
```

User John:

```
John - No chatroom: join 3
Joined chatroom 3: Chatroom 3
Type ':leave; to leave the chatroom

----- Chatroom 3 -----

Dillan (7): Hello
Hi!
John (8): Hi!
Jane (9): Hello !!
█
```

User Steve joins after this conversation (message history is printed):

```
Enter your name: Steve
----- Messenger Portal -----

Steve - No chatroom: join 3
Joined chatroom 3: Chatroom 3
Type ':leave; to leave the chatroom

----- Chatroom 3 -----

Dillan (7): Hello
John (8): Hi!
Jane (9): Hello !!
█
```