**Use Case:** Add members to group

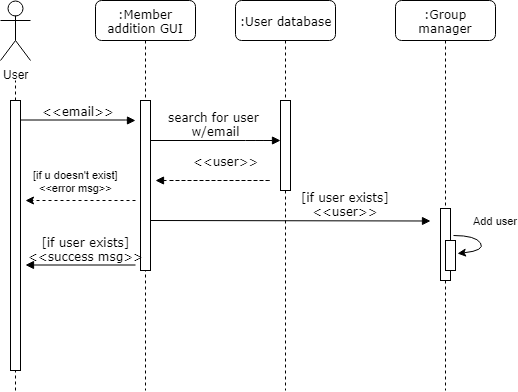
**User Story IDs Addressed:** 011

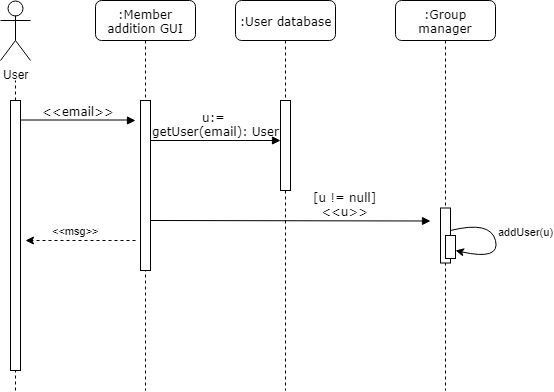
**Related Use Cases:** Included in “Create room”

**Steps:**

| **Pre-Conditions: User has successfully created a group, is logged in, and in add member to group menu.** | |
| --- | --- |
| Actor actions (User) | System response |
|  | 1. Give dialog |
| 2. Select text field |  |
| 3. Type user email |  |
| 4. Click submit | 5. Check if user is there\* |
|  | 6. Add user to group\* |

1. Member addition GUI queries the user database with the inputted email
2. If the user database returns a user
   1. Member addition GUI sends user to group manager
   2. Group manager adds user in group manager
   3. Member addition GUI displays success message
3. Else:
   1. Member addition GUI displays error message to user





**Use Case:** Create room

**User Story IDs Addressed:** 011

**Related Use Cases:** Includes “Add members to group”

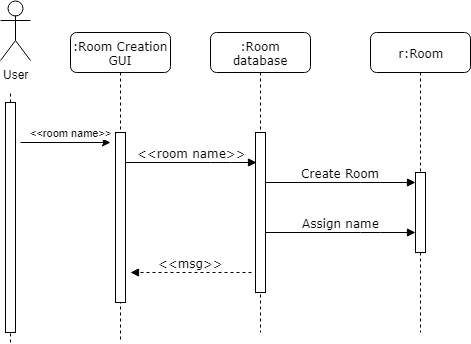
**Steps:**

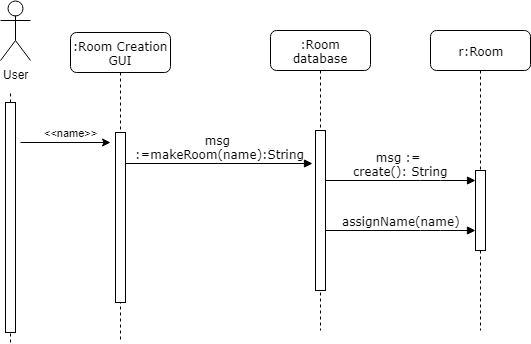
| **Pre-Conditions: User is logged into system and has selected create new group option.** | |
| --- | --- |
| Actor actions (User) | System response |
| 1. Select new group |  |
| 2. Give name to group | 3. Save group\* |
|  | 4. Return dialog to select members |

**Post-Conditions: User has successfully created a group.**

2. User inputs group name to the room creation GUI

1. Room creation GUI sends room name to room database
2. Room database creates new room in room database
3. Room database assigns name to room
4. Room database sends message to room creation GUI





**Use Case:** Create new shared expense

**User Story IDs Addressed:** 001, 003

**Related Use Cases:** Generalizes “Create recurring, evenly split charge”; “Create standalone charge”

**Steps:**

| Pre-Conditions: Assumes the user has logged into the app, is viewing the group of interest, and has incurred an expense that needs to be shared with the group. | |
| --- | --- |
| Actor actions (User) | System response |
| 1. Select “Create new charge” | 2. Dialogue box appears |
| 3. Input charge details |  |
| 4. Select “Confirm” or enter\* | 5. Dialogue box disappears |
| Post-Conditions: All included group members may see the new charge on their account. | |

3. User sends amount to charge and list of users to split the charge with to expense manager GUI

1. Expense manager GUI sends charge details to group manager
2. For each user in the list of users to split the charge with:
   1. Group manager checks if user is in the group
   2. If user is in group:
      1. Group manager adds charge to user account
   3. Else:
      1. Group manager sends error message to expense manager GUI
3. Group manager sends completion message to expense manager GUI

