1. Actors

Actors: User (General People) and Admin

Table 1: Actors of the web application

2. Register

2.1. High Level use case

Preconditions: The user does not have an account with My room.

Name: Register
Actor: User
Description: The user opens the registration page and fills the form then, they click the "register" button, and the application checks the phone and email address to ensure it is unique. If it is unique, the application creates a new user record with the provided information and logs the user in. If the email address is already in use, the application displays an error message.

Table 2: High level use case for register

2.2. Use case Diagram.

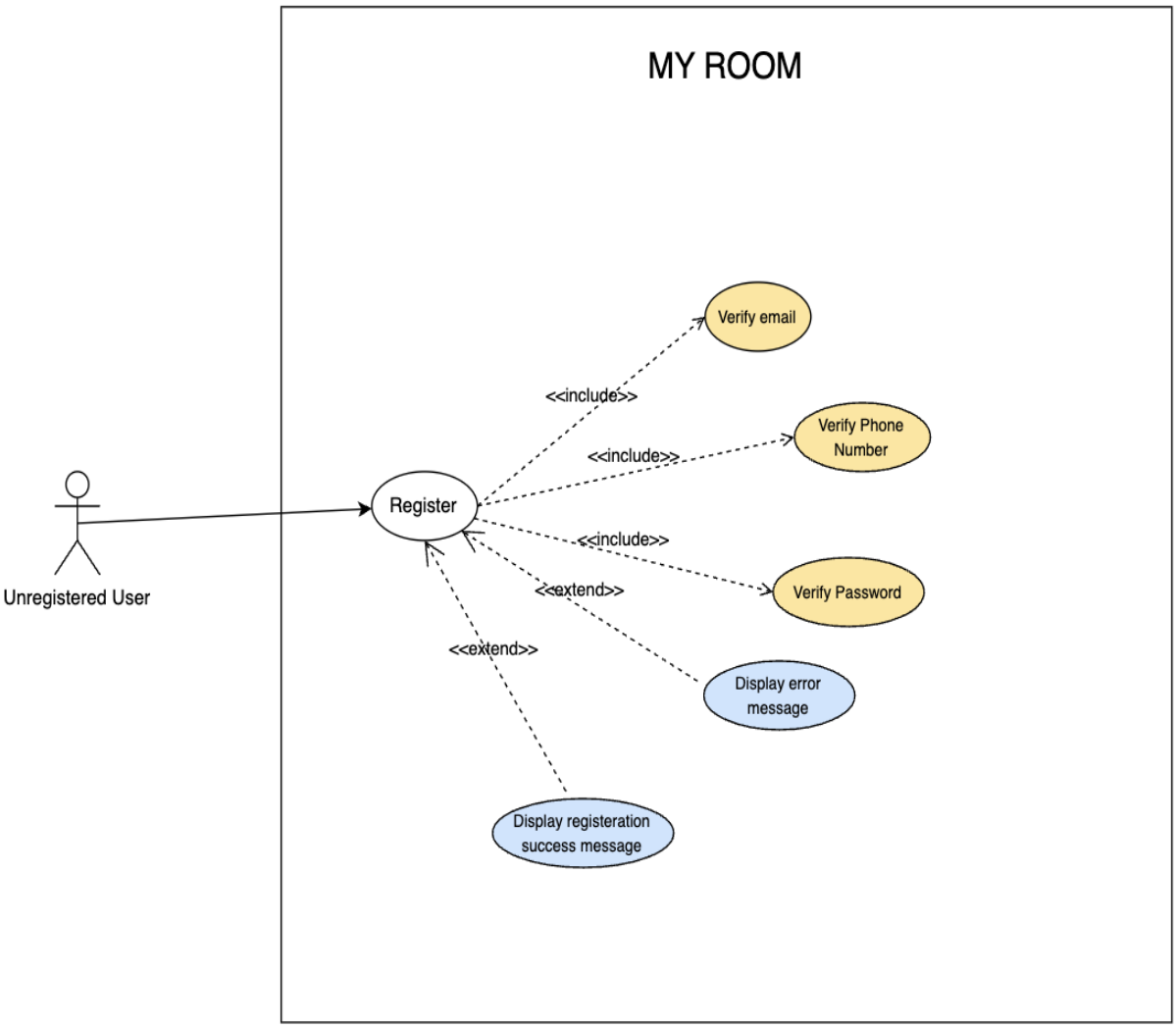

Figure 1: Register Use Case Diagram

3. Login

3.1. High Level use case

Preconditions: The user has an account with My Room.

Name: Login
Actor: User
Description: The user needs to go to the login page and enter their email address and password. Then, clicks the "login" button and the system will check if their email and password are correct. If they are, the system will let the user log in and take them to the homepage of My Room. If the email and password are not correct, the website will show an error message. **Exceptions:** If the user does not have an account, user can click the "register" button to create a new account.

Table 3: High Level Use case diagram for Login

3.2. Login Use case Diagram of User

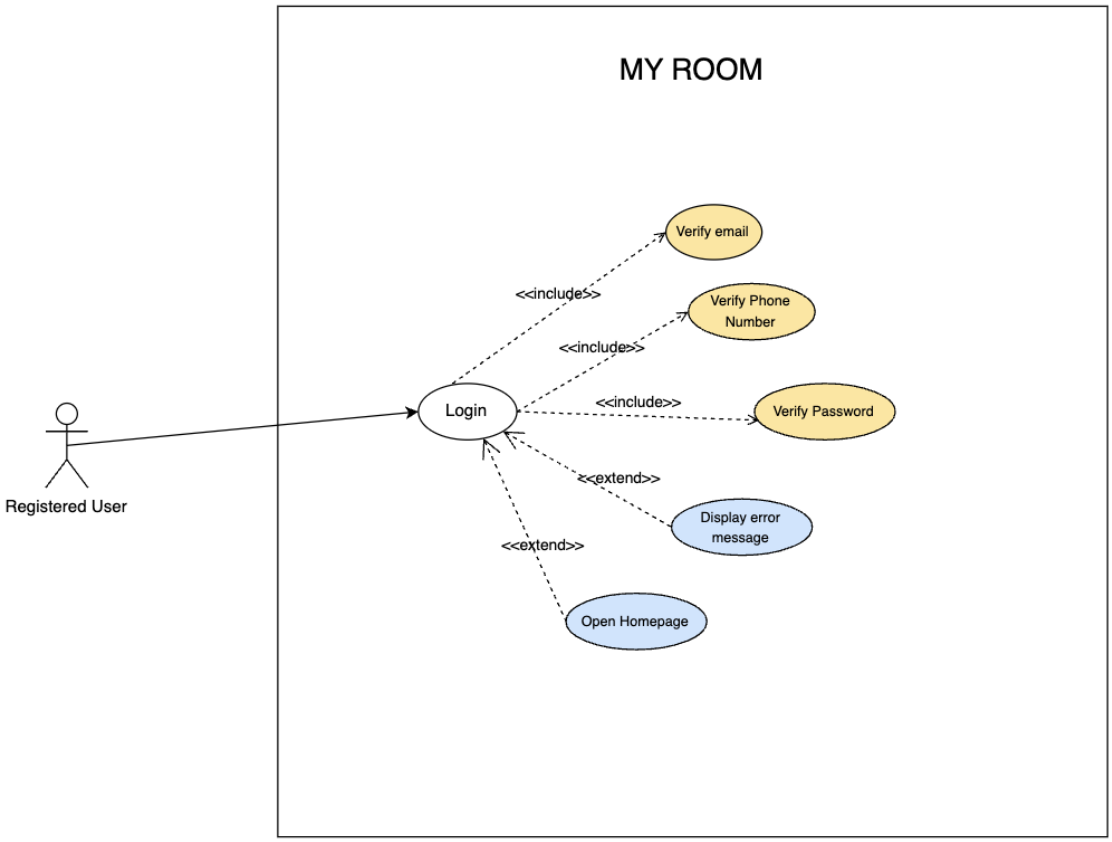

Figure 2: User's Login Use Case diagram

4. Property Listing

4.1. High Level use case

Name: Property Listing
Actor: User
Description: The user needs to be logged in and click the "list property" button. They can then enter information about their property, like type, rent amount, etc. and further upload images and click "submit". new property listing with the provided information will be created and displayed on the website for other users to see. **Exceptions:** If the user is not logged in, they will be redirected to login page upon clicking on list property button.

Table 4: High Level Use case Diagram for property Listing

4.2. Use case Diagram.

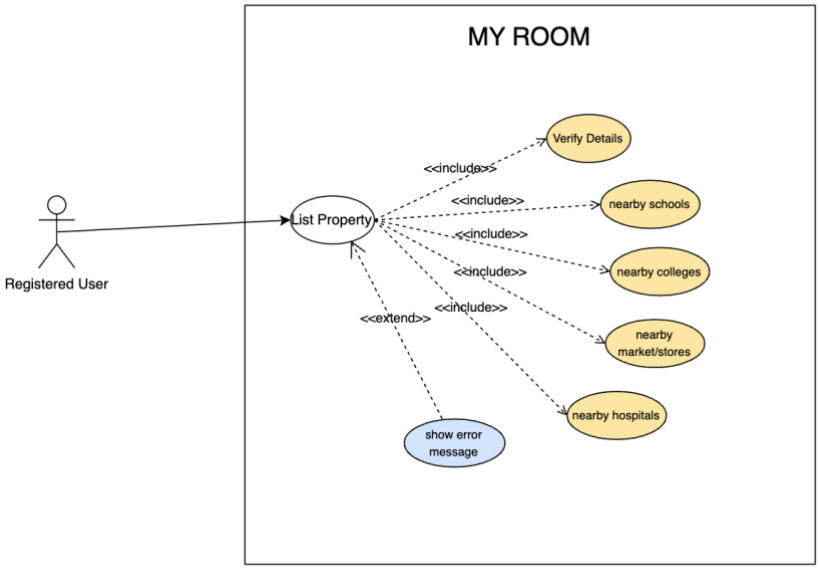

Figure 3: Property Listing Use case Diagram

5. Delete Listing

5.1. High Level use case

Name: Delete Listing
Actor: User
Description: The user needs to be logged in and select the ad they wish to delete from their dashboard. Then a form will be displayed to the user with two buttons update Ad and Delete ad. Then they can delete the ad by clicking on the delete ad button. **Exceptions:** If the user is not logged in, they will be redirected to login page upon clicking on list property button.

Table 5: High Level Use case Diagram for property Listing

5.2. Use case Diagram.

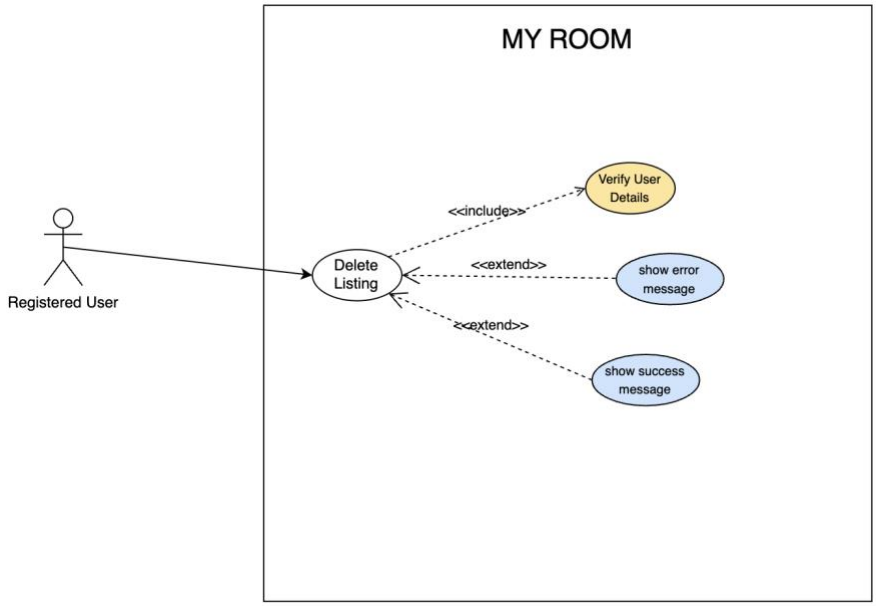

Figure 4: Delete Listing Use case Diagram

6. Map View

6.1. High Level use case

Name: Map Location
Actor: User
Description: User needs to click on a property listing to view its details. The website will show the property description page, which includes all the details of the property. The user can see a map with the location of the property marked on it in location section.

Table 6: High Level Use case diagram for map Location

7. Show Nearby schools, colleges, hospitals, stores.

7.1. High Level use case

Name: Show Nearby Schools, Hospitals, College, Stores
Actor: User
Description: the user needs to click on a property listing. They can then click the "view nearby schools/hospitals" toggle button in the map view section, and the website will show a map with the location of the property and nearby schools and hospitals.

Table 7: High Level Use case diagram for show nearby schools/hospitals

8. Search Feature

8.1. High Level use case

Name: Advance Search
Actor: User
Description: They can then enter their search criteria and click the "search" button. The web application will look for properties that match the search criteria entered by the user and display a list of them on the search results page. If the user does not fill out the search form correctly or the criteria, they entered are not valid, the website will display an error message.

Table 8: High Level Use case diagram for Advance search

8.2. Use Case Diagram

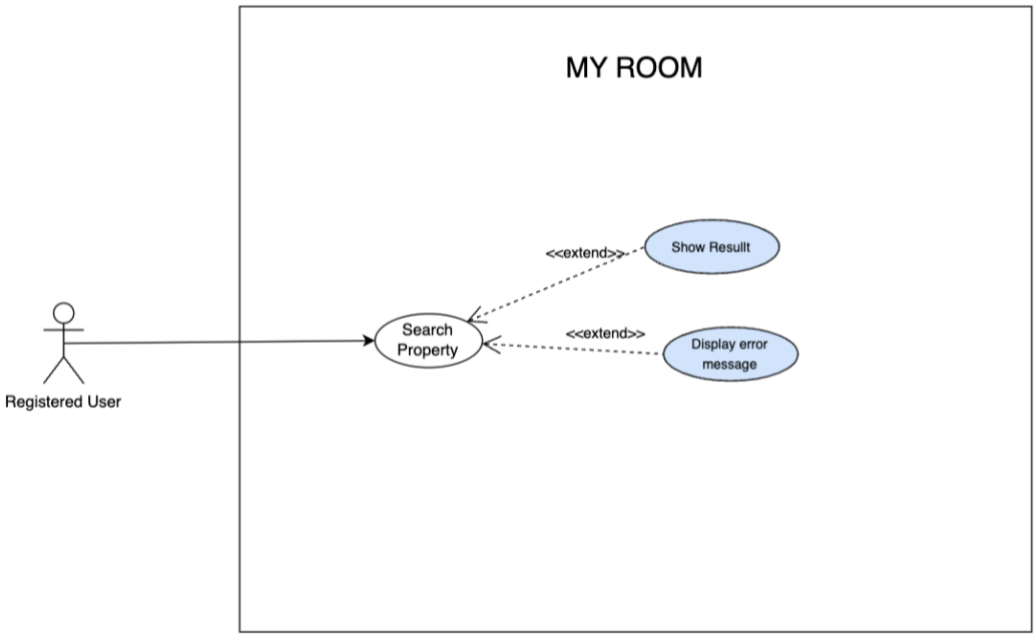

Figure 5: Search Feature Use Case diagram

9 Chat Feature

9.1. High Level use case

Name: Chat
Actor: User
Description: The user clicks on the chat button of navbar or property description page. Then the application displays the chat window accordingly either list of people or specific person's chat box. The user can then send and receive the messages. **Exceptions:** If the user is not logged in, they will be redirected to login page after clicking the chat button.

Table 9: High Level Use Case Diagram for Chat Feature

9.2. Use case diagram.

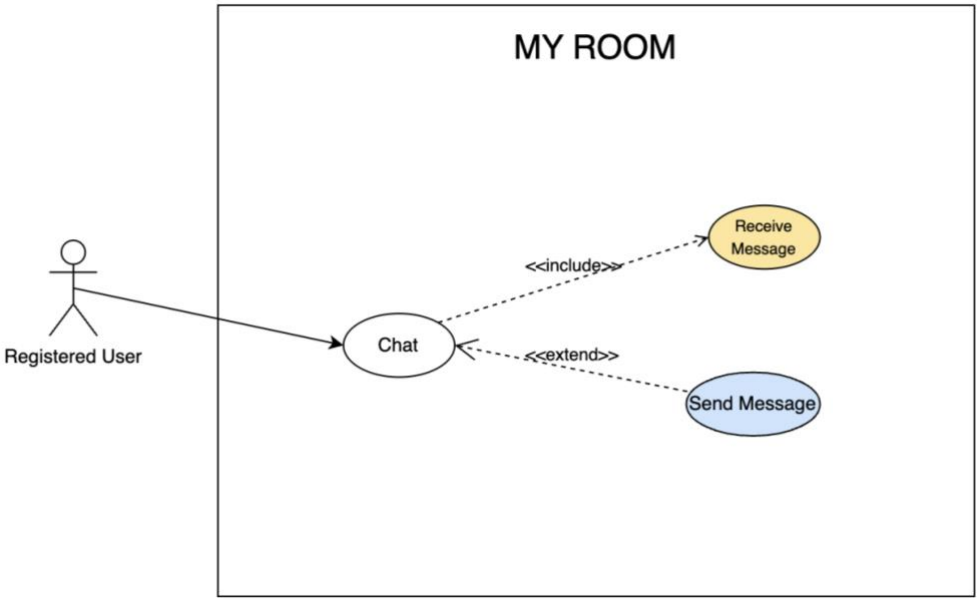

Figure 6: Chat feature Use Case Diagram

10. Report Feature

10.1. High Level use case

Name: Report
Actor: User
Description: The user must be logged in and visit the Property Description page. They can then click the "report" button, which will open a form for them to type in a reason for the report. After the user submits the form, the application will notify the admin about the report. **Exceptions:** If the user is not logged in, they will be redirected to login page after clicking the chat button.

Table 10: High Level Use Case Diagram for Report Feature

10.2. Use Case Diagram

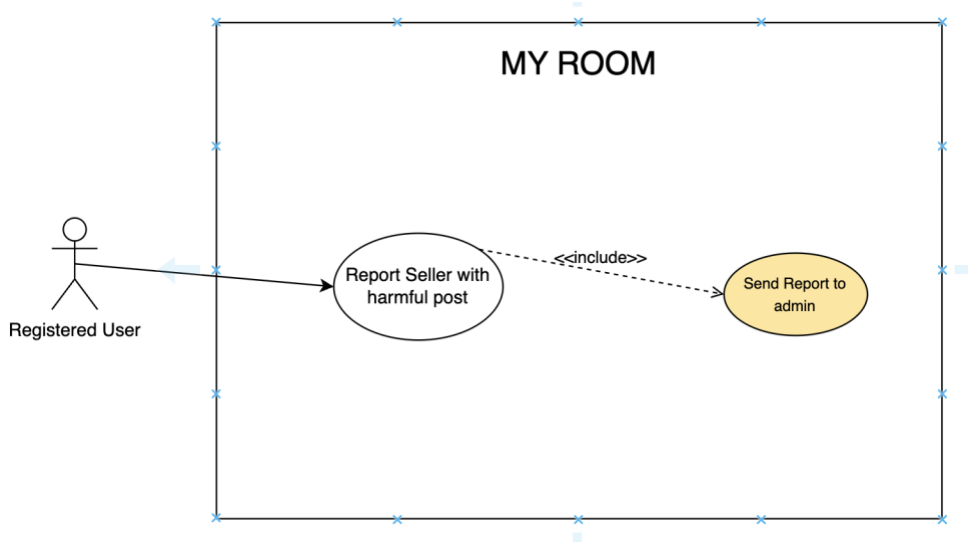

Figure 7: Use Case Diagram for report

11. Report Review

11.1. High Level use case

Name: Report Review
Actor: Admin
Description: Admin must first log in and click the "row of the table" of the user who is reported. Admin can see the reported users in user list and can select one to review. The admin can then review the report and the associated property listing. They can decide to dismiss the report or take action on the user (e.g., warn the user, ban the user, remove the report). They must click "submit" to save their decision."

Table 11: High Level Use Case Diagram for Report Review Feature

11.2. Use case Diagram.

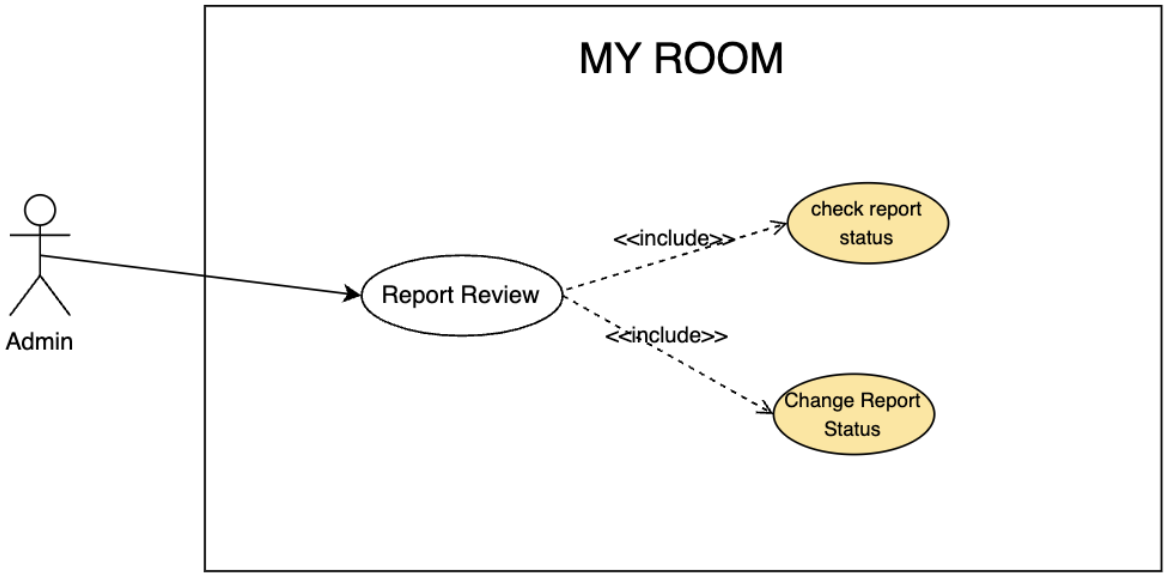

Figure 8: Report Review Use Case Diagram

12. Ban User

12.1. High Level use case

Name: Ban User
Actor: Admin
Description: Admin must click the "ban user" button on the report review page. A confirmation message will appear and the admin must confirm to ban the user. The application will then ban the user and show a success message."

Table 12: High Level Use Case Diagram for Ban user feature

12.2. Use case diagram.

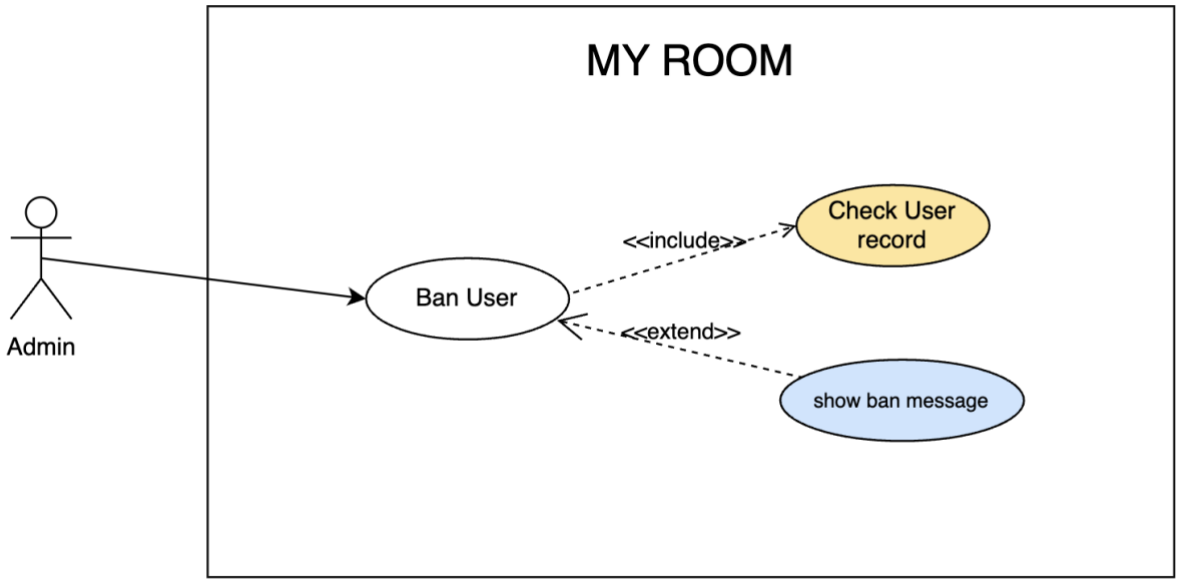

Figure 9: Ban user use case diagram

13. Undo Report

13.1. High Level use case

Name: Undo report
Actor: Admin
Description: Admin must click the "examined" button on the report review page. A confirmation message will appear and the admin must confirm to ban the user. The application will then ban the user and show a success message."

Table 13: High Level Use Case Diagram for Ban user feature

13.2. Use case diagram.

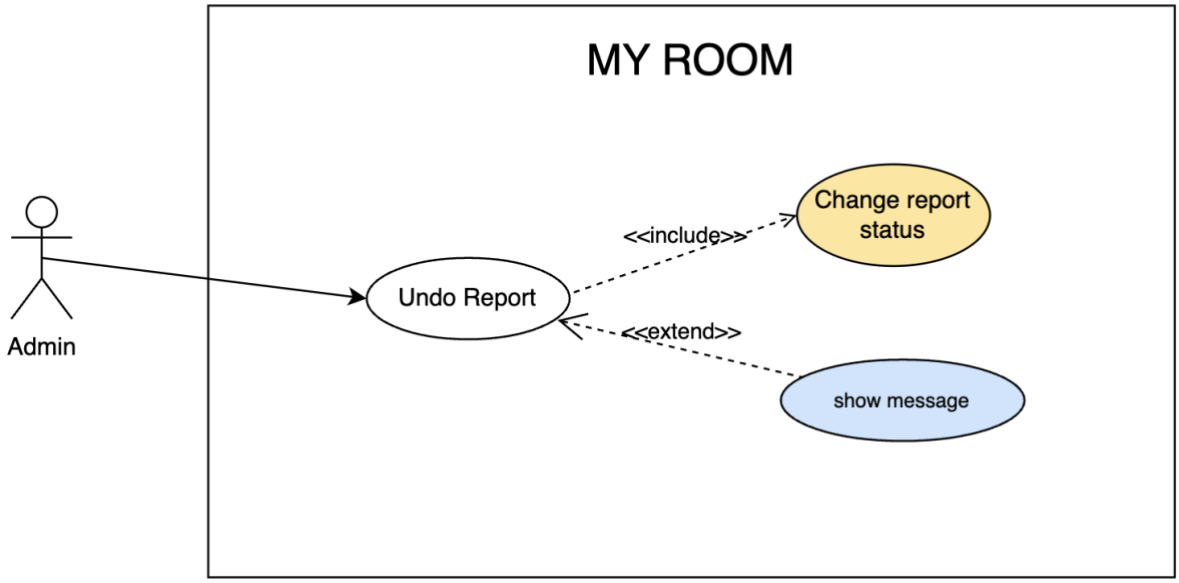

Figure 10: Undo report use Case diagram.