# CSC343

# Group Project

| Name |
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## Functional Requirements:

1. System should be able to add Cities.
2. System should be able to update Cities.
3. System should be able to delete Cities.
4. System should be able to view Cities.
5. System should be able to add Areas.
6. System should be able to update Areas.
7. System should be able to delete Areas.
8. System should be able to view Areas.
9. System should be able to add Lanes.
10. System should be able to update Lanes.
11. System should be able to delete Lanes.
12. System should be able to view Lanes.
13. System should be able to add Buildings.
14. System should be able to update Buildings.
15. System should be able to delete Buildings.
16. System should be able to view Buildings.
17. System should be able to add Apartments.
18. System should be able to update Apartments.
19. System should be able to delete Apartments.
20. System should be able to view Apartments.
21. System should be able to add Stores.
22. System should be able to update Stores.
23. System should be able to delete Stores.
24. System should be able to view Stores.
25. System should be able to add Residents.
26. System should be able to update Residents.
27. System should be able to delete Residents.
28. System should be able to view Residents.
29. System should be able to add Managers.
30. System should be able to update Managers.
31. System should be able to delete Managers.

32. System should be able to view Managers.
33. System should be able to report Information of people living in a particular apartment.
34. System should be able to report Address of some resident.
35. System should be able to report Information of all malls.
36. System should be able to report Information of all Masjids.
37. System should be able to report Information of a stores.

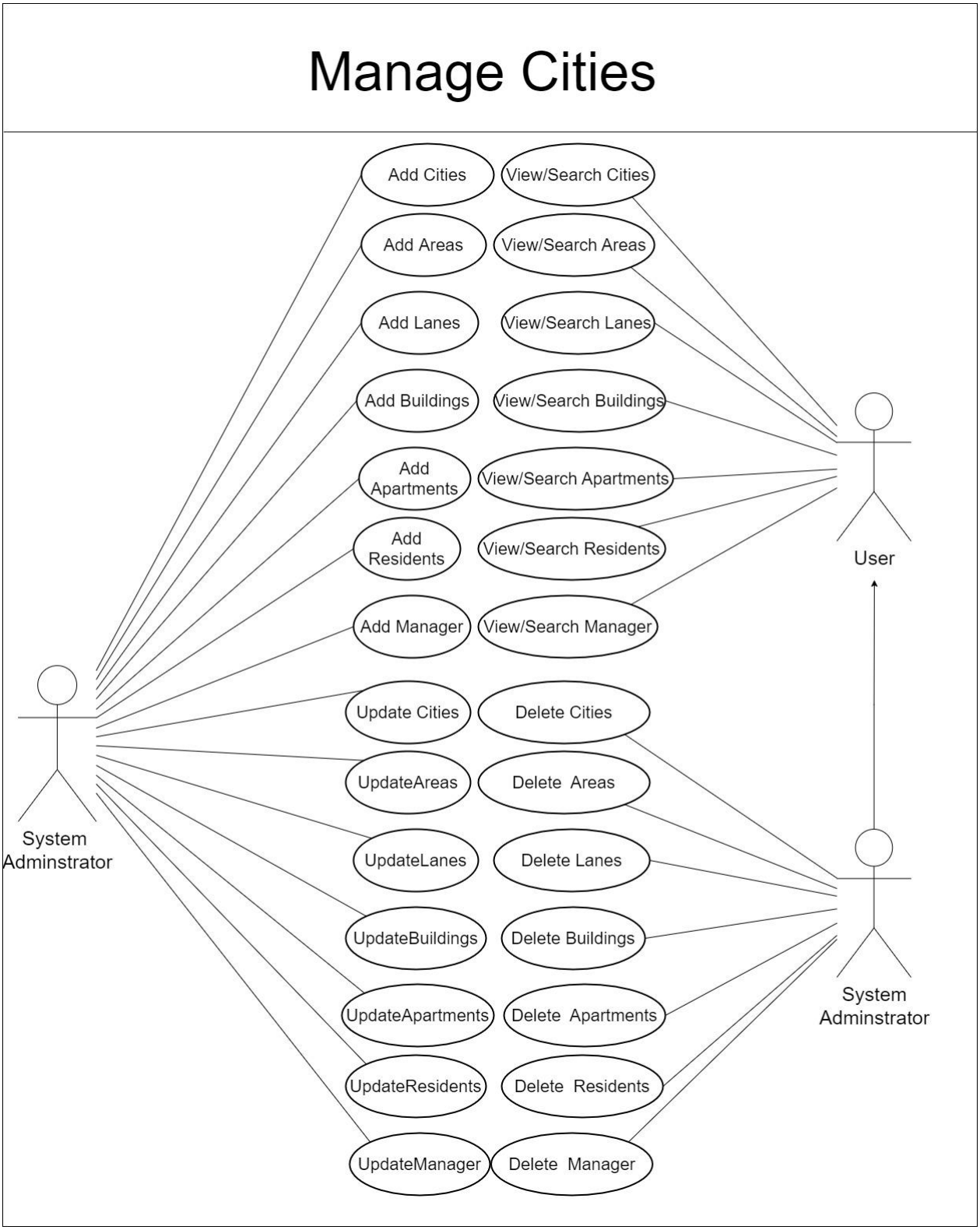
## Non-Functional Requirements:

1. The project system should be developed using c#.
2. The system database should be developed using mySQL.
3. The system should support both Arabic and English language.
4. The system should be supporting both windows 10 and mac Operating Systems.
5. The system should be available to users all the time.

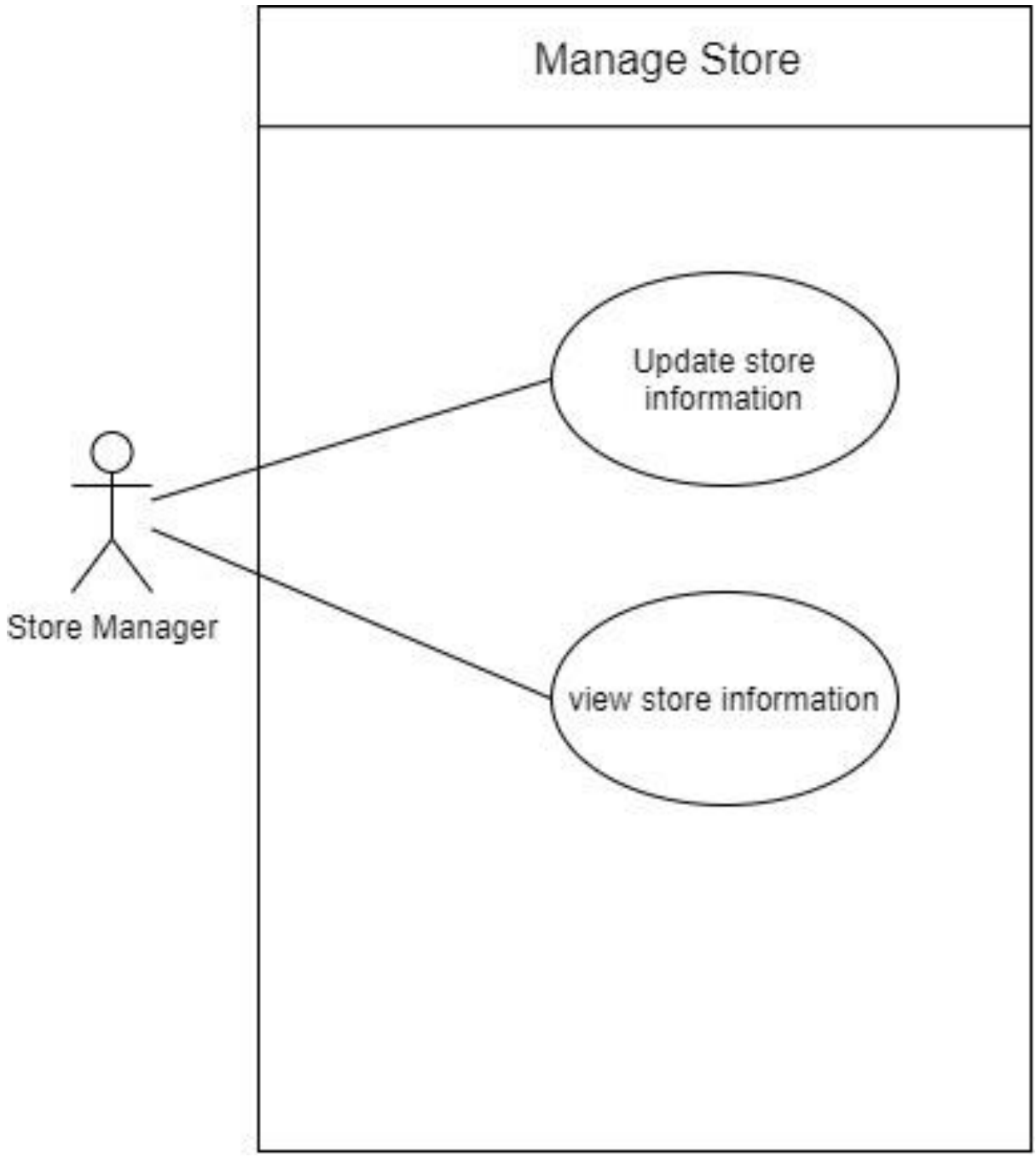
## Actor Goal:

| Actor | Goal |
|---|---|
| System Administrator | Add information.<br>update information.<br>delete information.<br>view information. |
| Store Manager | Update store information<br>View the store info |
| User | View information |

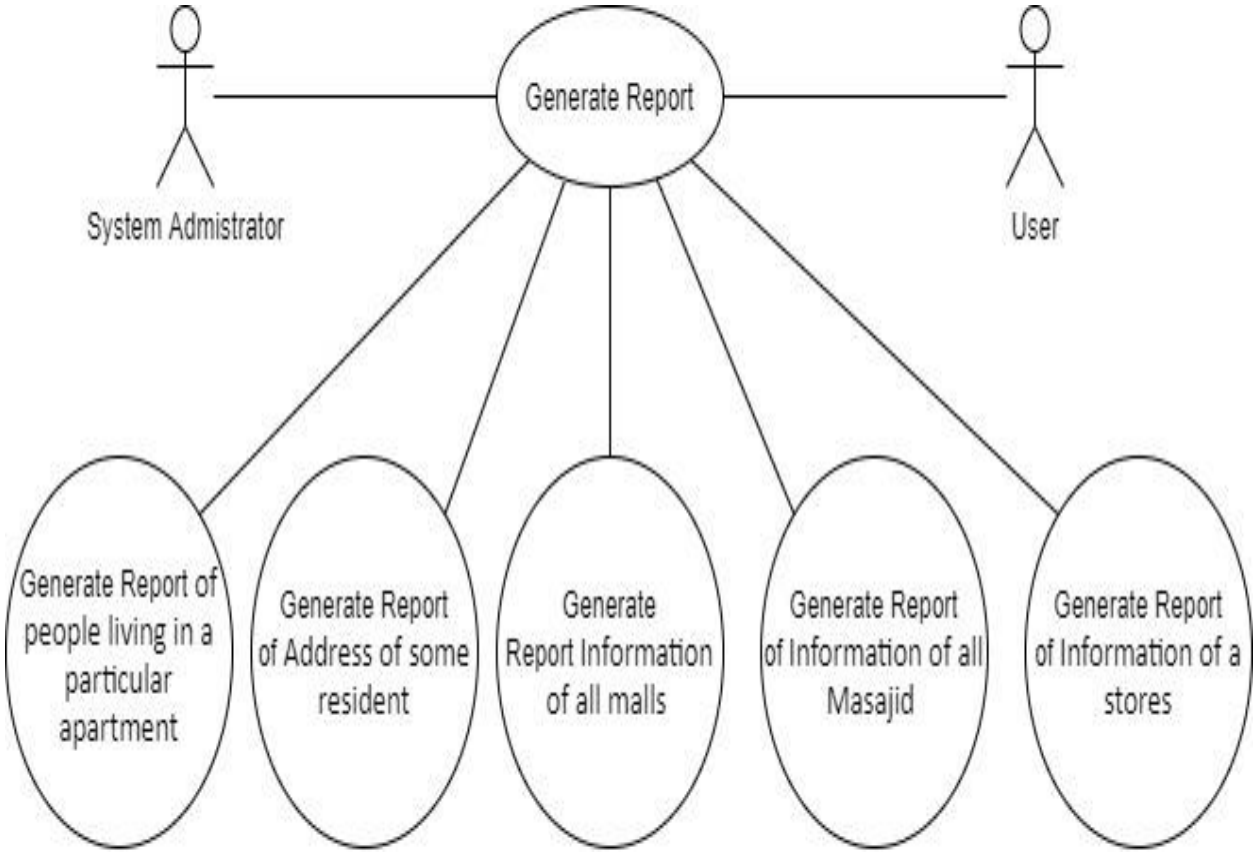
## Use-Case Diagram:



**Manage Store:**



## Generate Reports Detailed Use Case:



**Use Case Text Descriptions:**

1. **ADD Resident:**

| | |
|---|---|
| **Actor:** | System Administrator. |
| **Precondition:** | The Resident does not already exist, and the number of people in the apartment is less than 5. |
| **Post condition:** | The Resident has been added to the apartment. |

| User Action | System Response |
|---|---|
| The user searched for apartment with its name. | The system search for the apartment name and display it's information. **exp1** |
| The user clicks on add resident. **exp2 alt1** | The system asks for the user id and his information |
| The user enters the resident information. **alt1** | The resident has been added. **Exp3 exp4** |

**Exception1:** the apartment does not exist.

**Exception2:** there are already 5 people in the apartment.

**Exception3:** The Resident does already exist.

**Exception3:** The Resident info is wrong.

**Alternative1:** the user cancels the operation; the system stops and the user return to the main page.

2. **Delete a Building:**

| | |
|---|---|
| **Actor:** | System Administrator |
| **Precondition:** | The building we want to delete does exist. |
| **Post condition:** | The building has been removed |

**Exception:** the info of what we want to delete does not exist.

| User Action | System Response |
|---|---|
| The user searched for a mall using it's building number. **alt1** | The system searches for the building number, and displays the mall information. **exp1** |
| The user clicks on delete building. exp2 **alt 1** | the system shows confirmation message before deleting |
| The user press confirm. alt1 | The building is removed, and the system displays a message. |

**Exception1:** the building does not exist.

**Alternative1:** the user cancels the operation; the system stops and the user return to the main page.

### 3. Update a store name:

| | |
|---|---|
| **Actor:** | System Administrator |
| **Precondition:** | The number of the store we want to update to does not exist. |
| **Post condition:** | The info has been added |

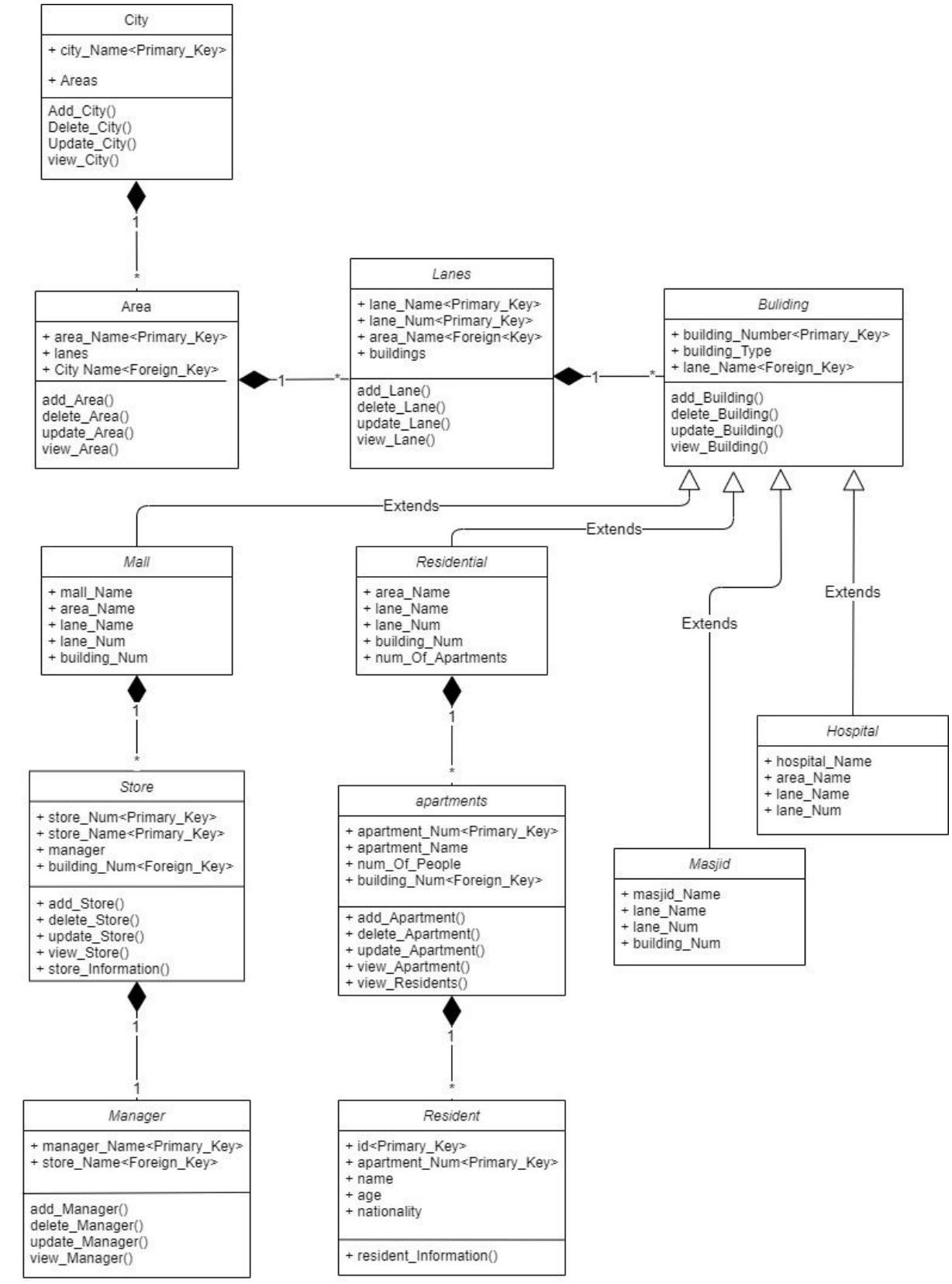
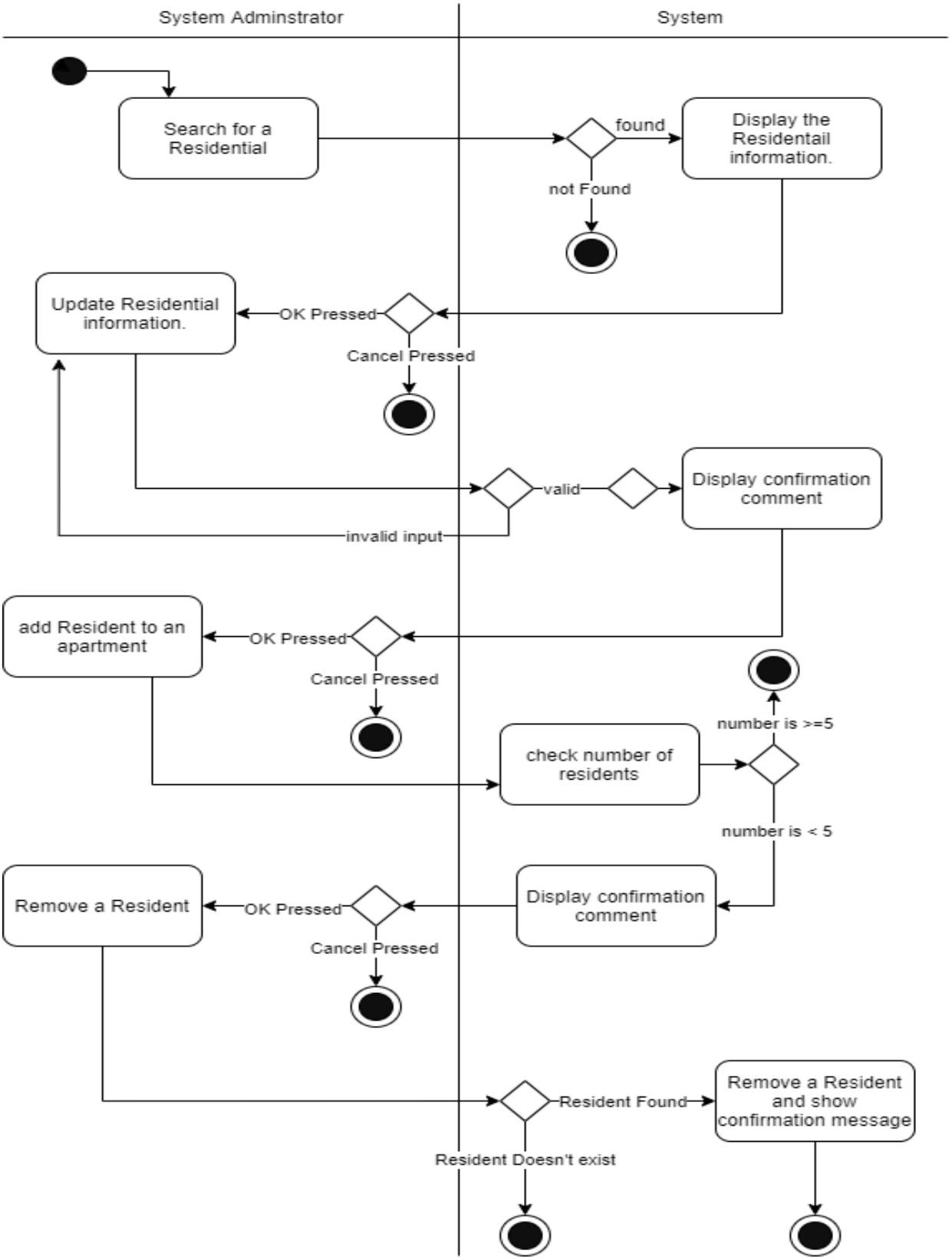
| User Action | System Response |
|---|---|
| The user searched for the store using its name. **alt1** | The system search for the store and display it's information. **Exp1** |
| The user clicks on update store name. **alt1** | The system asks the user to enter the new name for the store. |
| The user enters the new name for the store. **alt1** | The store name has been updated. **Exp2** |

**Exception1:** the info we want to update to does not exist.

**Exception2:** the unique info we want to update to does exist.

**Alternative1:** the user cancels the operation; the system stops and the user return to the main page.

## Class-Diagram:



## Activity-Diagram: