**Use Case:**

**Actors:**

1. User

**Pre-Conditions:**

1. User is present on the floor.

2. User wants to use elevator.

3. Elevators are working fine.

4. Maximum 10 persons are allowed at a time in the elevator.

5. Weight limit is 1000 kg.

**Post-Conditions:**

1. Elevator will arrive at the particular floor where user is waiting.

**Stakeholders:**

1. Building owner

2. User

3. Maintenance staff

**Main success scenario (Request for elevator use):**

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| --- | --- |
| **Actor Action** | **System Response** |
| 1. User arrives at the floor to use elevator. |  |
| 2. User presses the up or down button to open the elevator door. |  |
|  | 3. System checks the floor where user is present. |
|  | 4.System decides which elevator is available and nearer to the user’s floor. |
|  | 5. System sends the signal to the chosen elevator in order to visit the floor. |
|  | 6. Elevator arrives at the respected floor. |
|  | 7. Door opens. |
| 8. User enters the elevator. |  |
| 9. User enters the desired floor to visit. |  |
|  | 10. Door closes. |
|  | 11. Elevator goes to the chosen floor. |
|  | 12. Elevator reaches the floor and door opens. |
| 13. User leaves. |  |
|  | 14. Elevator sends an availability signal to the system. |

**Alternatives:**

4. Both elevators are in use.

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| **Actor Action** | **System Response** |
|  | 1. System takes the request and maintains a queue. |
|  | 2. Whenever one of the elevators become available, system will assign that job to the elevator. |

Rest of the steps are same from step 5 as shown in main success scenario.

8. User does not enter the elevator.

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| **Actor Action** | **System Response** |
|  | 1. System wait for 5 seconds in order for the user to select the desired destination floor. |
|  | 2. System closes the door of the elevator |
|  | 3. System updates the status of elevator to available. |

10. Elevator weight limit exceeds maximum.

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| **Actor Action** | **System Response** |
|  | 1. System rings a warning alarm |
| 2. Some users leaves the lift. |  |

Rest of the steps are same from step 10 as shown in main success scenario.

11. Emergency button is pressed by the user.

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| **Actor Action** | **System Response** |
|  | 1. System sends a signal to the fire department. |
|  | 2. System stops the elevator to the nearest floor. |
|  | 3. System opens the door. |
| 4. User leaves. |  |