**Use Case 7: Manage Room Maintenance**

**Overview:**

This Use Case enables the user, the employee, to manage hotel room maintenance for the hotel.

**Preconditions:**

1. The user needs to select a hotel room to modify.
2. The database is accessible.
3. The Maintenance tab is displayed.

**Scenario**

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| Action | Software Reaction |
| 1. The user clicks on a room number from the list labeled “Room List”. | * The room which was clicked will be selected. * The table labeled “Room Inventory” will be populated with the selected room’s inventory items. * The Room service textfield will show the last room cleaning date * The room service “Update” button will become clickable |
| 1. The user clicks the Date Last Cleaned “Update” button. | * The new date will be updated in the database. * The new date will be updated in the textfield. * A “date updated!” label will appear. |
| 1. With a room already selected, the user clicks on an item in the “Room Inventory” list. | * The item which was clicked will be selected. |
| 1. With an inventory item selected, the user clicks the “Replenish” button | * The selected inventory item’s quantity will be set to match expected quantity both in the GUI and in the database. |
| 1. The user clicks any of the Room Inventory headers | * The Room Inventory Table will be sorted according to the header clicked. |

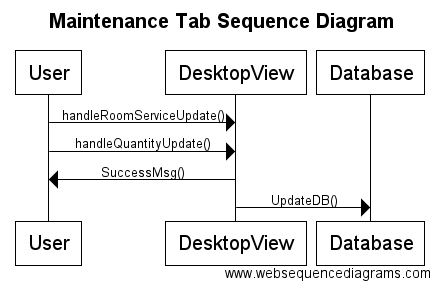
**Scenario Notes:**

To initiate item 2, only a room has to be selected, but for 3, 4 and 5, an inventory item must also be selected.

**Postconditions:**

1. The hotel maintenance updates will be saved in the database based on the specification provided.

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| **Required GUI:**  **Mouse and keyboard** | **Use Cases Utilized:**  **none** |
| **Exceptions:**   1. The DB cannot be accessed. | **Timing Constraints:**  **none** |

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