|  |  |  |
| --- | --- | --- |
| USE CASE # | 1 | |
| USE CASE Name | The Hotel | |
| ACTOR | Customer | |
| Goal (1 phrase) | To allow the customer to reserve a room or check in and out through an employee in the hotel class | |
| Overview and scope | The hotel class is used by the customer to reserve a room, check in, and check out. The customer will begin by making a reservation to a room. They will then check into that room by the hotel assigning a non-occupied room’s index in the array. The customer can then check out of the room which will free up the room and remove the customer from the system. | |
| Level | Primary | |
| Preconditions | The customer makes a command to the hotel | |
| Postconditions in words (write in passive and past tense) | 1. The rooms would be added and created and deleted as customers check in and out, 2. The Boolean values, “occupance”, and “reserved”, will be changed accordingly. | |
| **Trigger** | When the customer makes a command. | |
| **Included Use Cases** | N/A. | |
| **Extending Use Cases** | N/A. | |
| ***MAIN SUCCESSFUL SCENARIO* in numbered sequence**  Reference “included use cases” in this section using INCLUDE *ius\_name* | **Actor Action** | **System Action** |
| 1. Customer reserves a room | 2. Reserve a specific room for the customer |
| 3. Customer checks in | 4. Return the index of the room array |
| 5. Customer checks out | 6. Set the reserved and occupance Boolean to false, then set the reservedTo string to null. |
| ***OTHER SUCCESSFUL SCENARIOS*** (Specify any ***successful***variations of the *normal* execution path, including any extension points using  EXTEND *eus\_name*) | **Step** | **Branching Action** |
| N/A. | N/A. |
| ***UNSUCCESSFUL SCENARIOS*** (*erroneous* situations*)* | **Conditions** | **Actions** |
| 1. Customer attempts to check in while they are already currently checked in. | Return an error message |
| 2. Customer tries to reserve a room that is already taken. | Return an error message and ask the customer to specify another room number. |
| 3. Customer tries to check out of a room that nobody is in. | Return with an error message and go back to the main menu. |
| Priority in scheduling | 1 | |
| **Frequency** | Always. | |
| **Other non-functional requirements** | N/A. | |
| **Business rules and data logic** | N/A. | |
| **Superordinates** | N/A. | |
| **Developer** | Group 8 | |
| **Creation date and last modified date** | March 1st, 2017. | |
| Other Comments |  | |

**NOTE 1**: *ius\_name* means an *included\_use\_case\_name* and *eus\_name* means an *extended use case name.*

**NOTE 2**: The text inside << >> are comments. Remove them when you use the template for your assignment and project.

**NOTE 3: \*a** means the operation can be performed at any step