**Use Case Analysis H.G.M.S**

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| **Use Case Number: 1** | | |
| **Name:** Register | | |
| **Brief description:** This use case allows guests to create an account | | |
| **Actors:**  Guests/Receptionist | | |
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| **Preconditions** | | |
| The customer should not have an account before | | |
| **Flows of Events:** | | |
| **1. Basic Flows** | | |
| **1.1.0 Register Customers** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The Customer calls the register/sign up command | The system displays the form with the fields for first name, last name, email address and password. |
| 2 | The Customer fills out the form and requests the system to save the details and create an account. | The system verifies that there’s no other profile in the database with the same email address and username and returns the success message on success or a fail message in case of failure. In case another profile exists with the email address and/or the username the system returns the message indicating the email address and/or username already exists. |
| **Post conditions** | | |
| The customer profile is persisted in the system | | |
| **Business Rules** | | |
| No duplicate email address and/or username profiles.  The password should at least be 6 characters and must include at list one number. | | |

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| **Use Case Number: 2** | | |
| **Name:** Sign In | | |
| **Brief description:** This use case allows guests to sign in to the account | | |
| **Actors:**  Guests/Receptionist/Admin | | |
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| **Preconditions** | | |
| The Guest must have an existing account | | |
| **Flows of Events:** | | |
| **2. Basic Flows** | | |
| **2.1.0 Sign in** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | Navigate to the sign in page | The system displays the log in page |
| 2 | The Customer fills out the user email associated with the account and password then submit the credentials | The system verifies the entered credentials and authenticates and will take it to the landing page. |
| **Post conditions** | | |
| The guest will be logged into the system | | |
| **Business Rules** | | |
| No duplicate email address and/or username profiles.  The password should at least be 6 characters and must include at list one number. | | |

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| **Use Case Number: 3** | | |
| **Name:** Make Reservations | | |
| **Brief description:** This use case allows a guest to make reservations | | |
| **Actors:** Admin/Guest/Receptionist | | |
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| **Preconditions** | | |
| Guest must have an account created | | |
| **Flows of Events:** | | |
| **3. Basic Flows** | | |
| **3.1 Check Availability** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | User goes to reservations page | The system returns reservation information form |
| 2 | Guest fills reservation information and sends check availability command | System checks available rooms and returns list of rooms |
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| **Post conditions** | | |
| System will be displaying available rooms | | |
| **Business Rules** | | |
| Check in date must be greater than the present date | | |
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| **3.2** Reserve a room | | |
| **Step** | **User Actions** | **System Actions** |

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| 1 | The guest selects a room from the available rooms and sends reserve request | The system will hold reservation information and directs the user to fill personal information |
| 2 | The guest inserts personal information and sends reserve request | The system updates reservation information and returns confirmation page |
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| **Post conditions** | | |
| Guest will have confirmation email from the system | | |
| **Business Rule** | | |
| Guest information should be valid | | |
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| **Use Case Number: 4** | |
| **Name:** | Add room information |
| **Brief description:** | The system will allow the admin to add room information |
| **Actors:** | Admin |
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| **Preconditions** | | |
| * The user must sign into the system * The user must have admin privilege | | |
| **Flows of Events:** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The admin sends add room command | The system returns the add room information form |
| 2 | The admin fills in room information and sends the add command | The system validates room information, persists the information to the database and returns confirmation page. |
| **Post conditions** | | |
| * The room information is persisted in the database * Number of available rooms will increase | | |
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| **Business Rules** | | |
| The information filled should be valid. | | |

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| **Use Case Number: 5** | | |
| **Name:** update reservation information | | |
| **Brief description:** This use case allows the admin/customer update reservation related information | | |
| **Actors:** Admin, Customer | | |
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| **Preconditions** | | |
| The Customer must be logged into the system  The customer must have an existing reservation | | |
| **Flows of Events:** | | |
| **5. Basic Flow** | | |
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| **Step** | **User Actions** | **System Actions** |
| 1 | The reservation to be updated will be selected by the user | The system returns the updateable information of the reservation in a form |
| 2 | The user updates the reservation details as needed in the form and submits | -The system updates the reservation for the current customer. Also, the availability of the room will be updated on the system; |
| **Post conditions** | | |
| The reservation of the guest will be updated  The availability of the room will be updated | | |
| **Business Rules** | | |
| * To extend the date, it should not be reserved by another guest | | |

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| **Use Case Number: 6** | | |
| **Name:** Check-in/Check-out | | |
| **Brief description:** This use case allows guests to check-in and check-out after their stay | | |
| **Actors:** Receptionist | | |
| **Preconditions** | | |
| The guest must have an existing reservation | | |
| **Flows of Events:** | | |
| **6. Basic Flow** | | |
| **6.1 Check-in** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The receptionist inputs the user info to check reservation | The system checks if the reservation exists |
| 2 | The receptionist selects check-in user | -The system updates the selected room as checked-in |
| **Post conditions** | | |
| Guest will be registered in the system as checked-in | | |
| **Business Rules** | | |
| * The guest should provide valid identification | | |
| **6.2 Check-out** | | |
| **Step** | **User Actions** | **System Actions** |
| 1 | The receptionist inputs the user info to check-out user | The system checks if the customer was checked-in |
| 2 | The receptionist selects check-out user | -The system updates the selected room as available for reservation |
| **Post conditions** | | |
| Guest will be charged for hotel stay  Security deposit will be released | | |
| **Business Rules** | | |
| * The guest should provide valid identification and reservation id | | |