## Description ca sử dụng

* + - Actors:
      * User
      * Admin
      * System
    - List of use cases:

|  |  |  |
| --- | --- | --- |
| **No.** | **Use case code** | **Use case name** |
| 1 | HOTEL01 | Search hotel |
| 2 | HOTEL02 | See detail hotel |
| 3 | HOTEL03 | Choose hotel’s option |
| 4 | USER01 | Login |
| 5 | USER02 | Register |
| 6 | BOOK01 | Reserve |
| 7 | BOOK02 | Cancel booking |
| 8 | ADMIN01 | Create Hotel |
| 9 | ADMIN02 | Read Hotel |
| 10 | ADMIN03 | Delete Hotel |

* Use case specification

**Search**

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase code** | HOTEL01 | **Usecase name** | Search hotels |
| Actor | User | | |
| Description | Allow user to search for hotels based on address keywords, select the booking date, number of people, and number of rooms. | | |
| **Pre-condition** | No | | |
| **Main flow** | **No.** | **Implemented by** | **Action** |
| 1 | User | Enter the search keywords into the search bar and optionally select additional options such as: booking period, number of people, and number of rooms. |
| 2 | System | display search results. |
| **Alternative flow** | **No.** | **Implemented by** | **Action** |
|  |  |  |
| **Post-condition** | No | | |

\* The input data consists of the following data fields:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | **Data field** | Required? | Valid conditions | Short description |
| 1 | Keyword | Yes | No |  |

**See datail hotel**

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase code** | HOTEL02 | **Usecase name** | See datail hotel |
| **Actor** | User | | |
| **Description** | Allow users to view detailed hotel information. | | |
| **Pre-condition** | No | | |
| **Main flow** | **STT** | **Implemented by** | **Action** |
|  | 1 | User | Click on the “See availability” button |
|  | 2 | System | Check log in |
|  | 3 | System | Display detail hotel |
| **Alternative flow** | **STT** | **Implemented by** | **Action** |
|  | 2.a | System | Display login form |
|  | 2.b | User | Login and return step 1 |
| **Post-condition** | Display detail hotel page | | |

**Choose hotel’s option**

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase code** | HOTEL03 | **Usecase name** | Choose hotel’s option |
| **Actor** | User | | |
| **Description** | Allow users to choose hotel base on choosing options | | |
| **Pre-condition** | No | | |
| **Main flow** | **STT** | **Implemented by** | **Action** |
|  | 1 | User | Enter the search keywords into the search bar and optionally select additional options such as: booking period, number of people, number of rooms, min price, max price. After clicking on the “Search” button |
|  | 2 | System | Display list of hotel satisfied |
| **Alternative flow** | **STT** | **Implemented by** | **Action** |
| **Post-condition** | No | | |

**Login**

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase code** | USER01 | **Usecase name** | Login |
| **Actor** | User | | |
| **Description** | Allow users to log in. | | |
| **Pre-condition** | Users are on the home page, the hotels display page, or when they want to view hotel details but have not logged in yet, or when they are on the log in page | | |
| **Main flow** | **STT** | **Implemented by** | **Action** |
| 1 | User | Click on the “Login” button / click on the “See availability” when they have not logged in |
| 2 | System | Display login form |
|  | 3 | User | Enter username and password, and click “Login” |
|  | 4 | System | Check authentication |
|  | 5 | System | Log in system, display home page |
| **Alternative flow** | **STT** | **Implemented by** | **Action** |
| 5.a | system | Notify error and requests the user to log in again. |
| **Post-condition** | display home page | | |

\* The input data consists of the following data fields:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | **Data field** | Required? | Valid conditions | Short description |
| 1 | Username | Yes | Yes |  |
| 2 | Password | Yes | Yes |  |

**Register**

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase code** | USER02 | **Usecase name** | Register |
| **Actor** | User | | |
| **Description** | Allow users to register | | |
| **Pre-condition** | Users are on the home page, the hotels display page, or when they are on the log in page | | |
| **Main flow** | **STT** | **Implemented by** | **Action** |
| 1 | User | Click on the “Register” button |
| 2 | System | Display register form |
|  | 3 | User | Enter username, password,email, and click “Register” |
|  | 4 | Ssytem | Check information |
|  | 5 | System | Create a new user and save to database |
|  | 6 | System | display log in page |
| **Alternative flow** | **STT** | **Implemented by** | **Action** |
| 5.a | system | Notify error and requests the user to register again. |
| **Post-condition** | display login page | | |

\* The input data consists of the following data fields:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | **Data field** | Required? | Valid conditions | Short description |
| 1 | Username | Yes | Yes |  |
| 2 | Password | Yes | Yes |  |
| 3 | Email | Yes | Yes |  |

**Reserve**

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase code** | USER04 | **Usecase name** | Đặt hàng |
| **Actor** | Người mua | | |
| **Description** | Allow users to book hotels. | | |
| **Pre-condition** | The user is logged in. | | |
| **Main flow** | **STT** | **Implemented by** | **Action** |
|  | 1 | User | Click on the “Reserve or Book Now” |
|  | 2 | System | Display list of rooms |
|  | 3 | User | Choose room and reserve |
|  | 4 | System | Save the booking and redirect to the "Your Booking" page. |
| **Alternative flow** | **STT** | **Implemented by** | **Action** |
|  |  |  |  |
| **Post-condition** | Display "Your Booking" page. | | |

**Cancel booking**

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase code** | USER03 | **Usecase name** | Cancel booking |
| **Actor** | User | | |
| **Description** | Allow users to cancel booked rooms | | |
| **Pre-condition** | Rooms have booked | | |
| **Main flow** | **STT** | **Implemented by** | **Action** |
|  | 1 | User | Click on the “Cancel booking” button |
|  | 2 | System | Delete booking |
| **Alternative flow** | **STT** | **Implemented by** | **Action** |
| **Post-condition** | No | | |

**Create hotel**

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase code** | ADMIN01 | **Usecase name** | Create hotel |
| **Actor** | Admin | | |
| **Description** | Allow admin to create hotel | | |
| **Pre-condition** | No | | |
| **Main flow** | **STT** | **Implemented by** | **Action** |
|  | 1 | Admin | Click on the “Create hotel” |
|  | 2 | System | Display hotel form |
|  | 3 | Admin | Fill information and confirm |
|  | 4 | System | Create hotel and save to database |
|  | 6 | System | Notify create successfully |
| **Alternative flow** | **STT** | **Implemented by** | **Action** |
|  |  |  |  |
| **Post-condition** | No | | |

**Payment**

|  |  |  |  |
| --- | --- | --- | --- |
| **Mã usecase** | BOOK03 | **Tên usecase** | Pay booking |
| **Tác nhân** | User | | |
| **Mô tả** | Allow users to pay booking | | |
| **Tiền điều kiện** | The user is logged in. | | |
| **Luồng sự kiện chính** | **STT** | **Thực hiện bởi** | **Hành động** |
|  | 1 | Người dùng | Click on the “PayBooking” |
|  | 2 | Hệ thống | Display payment form |
|  | 3 | Người dùng | Fill payment form and confirm |
|  | 4 | Hệ thống | Check valid infomation |
|  | 5 | System | Request paypal process payment transaction |
|  | 6 | System | Save transaction to database and notify pay booking successfully |
| **Luồng sự kiện thay thế** | **STT** | **Thực hiện bởi** | **Hành động** |
|  | 5a | System | Notify invalid infomation |
|  | 6a | System | Notify not enough money |
| **Hậu điều kiện** |  | | |

\* The input data consists of the following data fields:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | **Data field** | Required**?** | Valid conditions | Short description |
| 1 | Card number | Yes | Yes |  |

**Read hotel**

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase code** | ADMIN02 | **Usecase name** | Read hotel |
| **Actor** | Admin | | |
| **Description** | Allow admin to view hotel | | |
| **Pre-condition** | No | | |
| **Main flow** | **STT** | **Implemented by** | **Action** |
|  | 1 | Admin | Request to view list of hotel |
|  | 2 | System | Display list of hotels |
| **Alternative flow** | **STT** | **Implemented by** | **Action** |
|  |  |  |  |
| **Post-condition** | No | | |

**Delete hotel**

|  |  |  |  |
| --- | --- | --- | --- |
| **Usecase code** | ADMIN03 | **Usecase name** | Delete hotel |
| **Actor** | Admin | | |
| **Description** | Allow admin to delete hotel | | |
| **Pre-condition** | No | | |
| **Main flow** | **STT** | **Implemented by** | **Action** |
|  | 1 | Admin | Request to delete hotel |
|  | 2 | System | Search for a hotel and delete it from the database. |
| **Alternative flow** | **STT** | **Implemented by** | **Action** |
|  |  |  |  |
| **Post-condition** | No | | |