**Assignment 4 Team 5**

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**Task 1:**

**Fully developed description**

**Use case name: Add a new resort**

**Scenario: Add a new resort**

Triggering event: A new resort contracts with SBRU to participate in the vacation program Brief description: A new resort is added with descriptive information. Information about the accommodations available to this program are entered. Information about the facilities available for activities in this program are entered

Actors: SBRU clerk, Resort employee

Related use cases:

Stakeholders: SBRU management, Resort management

Preconditions: Resort must not already exist

Postconditions: Resort is created

Facilities are created and associated with the resort

Accommodations are created for this resort

**Flow of activities Actor System**

1. Verify that the resort does not exist

2. Enter resort description

3. (loop) Enter facilities information

4. (loop) Enter accommodations information

1.1 Check database for resort information

2.1 Create resort record

3.1 Create facilities record

**4.1. Create accommodations record**

**Exception conditions:**

1. **Resort already exists**

* writing a fully developed use case description is the most formal technique to record a use case. When a use case description is effectively established, there is a higher chance that a software developer will be able to grasp the user's needs. Below is a description of the use case Add new resort that has been fully developed.

**Below is the description of use case Add new resort: -**

|  |  |  |
| --- | --- | --- |
| **Name of the use case** | **Add new resort** | |
| **Scenario** | **Adding new resort** | |
| **Triggering event** | **A new resort requests to be added to SBRU’s vacation package** | |
| **Brief description** | There is a new resort with comprehensive information added. The resort enters information on the lodging options. The facilities that are available for activities are listed in the information. | |
| **Actors** | SBRU clerk, Resort employee | |
| **Related Use case** |  | |
| **Stake holders** | Resort management.  SBRU management | |
| **Pre-conditions** | There shouldn't already be a resort. | |
| **Post-conditions** | A resort is added, and it has accompanying facilities. Resort-specific lodging is also being created. | |
| **Flow of activities** | Actor:  1. To begin with, it must be determined whether the resort already exists.  2.Provide facility record information.  3. Enter resort information.  4. Enter the lodging information. | System:  1.1 Lookup resort in database.  2.1 Create a facility  3.1 Create a record based on information.  4.1 Create an accommodation log. |
| **Exception Condition** | Fundamental information is lacking.  There is already a resort. | |

**System Sequence Diagram:**

**Diagram

Description automatically generated**

Explanation:

In the above first-cut sequence diagram,

Actor:

• Actor is a person who is communicating with

the system.

• The actor who communicates with the system to book a resort.

Controller:

• Artificial class in the use case diagram which is used to associate a link between view and domain layers of the multilayer architecture is called as use case controller.

• The controller in the above use case diagram is Reservation Controller.

Class:

• The classes that belong to the above diagram are Resort, Facility, Accommodation

**Activity Diagram: -**

**Diagram

Description automatically generated**

**Task 2: Use Case Description with SSD**

**Use Case: Book a reservation**

|  |  |  |
| --- | --- | --- |
| **Use Case Name** | Book Reservation Resort | |
| **Scenario** | Reserve a resort with vacation package for a college student | |
| **Triggering Event** | Student and old customer immediately reserved the vacation package. As the primary guest,  Student did not pay the initial deposit | |
| **Brief Description** | Student checking for availability and amenities then book a vacation package and before discussing with friends and did not pay initial deposit. | |
| **Actor(s)** | Student | |
| **Related Use Cases** | Includes Create customer account.  Includes Add promotion voucher  Includes Create Transaction. | |
| **Stakeholders** | Student | |
| **Preconditions** | Vacation package must be available.  Customer account must be created. | |
| **Postconditions** | Booking status change to HOLD  System indicates an expiry of the “next day. | |
| **Flow of Activities** | **Actor** | **System** |
| 1.Check room availability for a particular date.  2.find a vacation package for that date.  3.Enter personal details.  4.Reserve the booking.  5.pay initial deposit. (Create Transaction.)  6.Pay final deposit. (Create Transaction.) | 1.Show resort, date, availability, and type of room information.  3.save personal details.  4.0 book the VP  4.1 create Booking details and Send Booking details booking number  4.2 send Web ID  5.0 initiate transaction  5.1receive deposit  6.0 initiate transaction 6.1receive deposit |
| **Exception Conditions** | 1.0 Customer account is not available (Create Customer Account)  1.1 No rooms are available, customer must change date  2.0 No vacation package available  5.0 Customer did not pay initial deposit, wait until next day and expire booking  5.1 Customer Cancel the booking before next day (Generate Refund).  5.2 Customer failed to cancel the booking before next day, remove the previously assigned vacation package.  6.0 Customer did not pay full payment send mail to customer. | |

**![Graphical user interface, application, table

Description automatically generated]()**

**Task 3: CRUD Matrix**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Use Case** | | | |
| **Use Case/ Domain class** | **Add new resort** | **Book a reservation** | **Cancel reservation** | **Change in Booking** |
| **Student** |  | C | D | U |
| **Resort** | C |  |  |  |
| **Vacation Packages** | C | R | R | U |
| **Customer Account** |  | R | U | U |