**Analysis Topic 5 - Assignment /**

**Chapter 5**

**System Analysis & Design & CIS-2245**

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| Author: | Christopher Sigouin |
| Date: | October 12, 2015 |
| Due Date: | October 13, 2015 |
| Assignment: | Analysis Topic 5 |
|  | Assignment |
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**2. For the use case Book a reservation, write a fully developed use case description and draw an SSD. Review the classes that are associated with a reservation in the domain model to understand the flow of activities and repetition involved.**

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| **Use case name:** | Book a reservation. |
| **Scenario:** | Book an online reservation. |
| **Triggering event:** | New or existing student wants to book a reservation. |
| **Brief Description:** | A student decides that a specific resort is best suited for their needs. Initiates a request process to create a reservation. Student will be required to provide address information, booking dates and payment information. |
| **Actors:** | Student |
| **Related use cases:** | None |
| **Stakeholders:** | SBRU Employees, Senior Management, Resort Management |
| **Pre-conditions:** | Student account must exist.  Reservation offering must be available to allow it to be chosen. |
| **Post-conditions** | Booking information is issued to resort scheduling.  Resort availability is updated.  Payment information is processed.  Ticket confirmation is sent to student. |
| **Flow of activities** | |  |  | | --- | --- | | **Actor** | **System** | | 1. Student chooses a reservation option and requests to book. 2. Student confirms account address and contact information. 3. Student provides number of students assigned and any special requirements. 4. Student confirms payment method. | * 1. System looks up booking and places it in a non-bookable state for any other browsing students.   2. System initiates process to acquire needed information for the booking.   3. System initiates validation of account address and contact information.   4. System saves information with reservation request.   5. System requests specific reservation data such booking dates, number of students assigned to booking or any special requirements.   6. System saves information with reservation request   7. System requests payment method.   8. System saves information with reservation request and assigns student account to reservation. | |
| **Exception conditions:** | * 1. Reservation is unavailable due to a pending booking process that initiated. |



**3. Draw an activity diagram to show the flow of activities for the use case Add a new resort.**



**4. Do a CRUD analysis based on the domain model you build in Chapter 4 and the use cases you have defined thus far.**

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| **Use Case vs. Entity/Domain class** | Interest | Traveler | TravelerInRoom | Accommodation | Resort | Comment | Facility | Activity |
| Book a reservation | U | U |  | U | RU | U | RU |  |
| Add a resort |  |  |  |  | C |  | C | C |