COMP 3711
Lab 2
September 15, 24

Lab Exercise

This lab focuses on the Reserve a Vehicle Use Case of a Vehicle Rental Business Case.

1. Examine the following write up of the "Reserve a Vehicle" use case and fill in the
    Use Case Detail Description Document template provided. Assume the reservation is
    being done directly by the customer, i.e. the only actor involved. Include the
    alternative path when there are no vehicles available that meet the customer's
    specifications. After completing the Use Case Document, construct a Use Case
    Diagram using Rational Rose. Submit your Use Case Document and the Rational
    Rose Model Diagram file to the share-in.

2. Examine the following write up of the "Reserve a Vehicle" use case and extract all of
    the nouns into a table. Submit the completed Class Identification Summary Table to
    the share-in drive. A table template is given at the end of the document below. Sort
    the nouns alphabetically. For each noun in the table, the table must contain three other
    fields:

    a. The meaning of the noun in this particular context

    b. Whether or not the noun should be a candidate for an analysis class

    c. The reason why the noun is or isn't a candidate class

    Here is an example of a noun with the appropriate table entries:

Noun	Meaning	Class?	Reason
address	Location of rental branch or customer residence	No	Attribute of another class such as customer or rental branch

1. This use case begins when a customer enters our rental Website page.

2. The system presents fields to prompt the customer for the pickup and return locations of the
    reservation, and the pickup and return dates and times. The customer indicates his desired
    locations and dates. The system also presents an option for the customer to limit the vehicle
    search to specific categories of vehicles — e.g., compact, SUV, full-size, …. The customer
    may specify a search category, or categories, if desired. The default is to search for all
    categories of vehicles. If the customer is participating in our rental awards program, he may
    enter his awards identification number in a separate field on the page. If this field is filled in,
    the system with access the customer's rental profile, which the system will retain to pre-
    populate any required information.

3. If the customer indicates he wishes to continue the reservation session, the system accesses the vehicle inventory for the pickup location, and presents a new page with all vehicles of the specified categories available at the pickup location for the selected date and time. With each vehicle the system presents a base rate, which may be discounted based on the customer's rental profile. If the customer requests detail information on a particular vehicle, the system obtains this information from the vehicle inventory and presents it to the customer.

4. If the customer selects a vehicle for rental, the system presents a new page which prompts for information identifying the customer (full name, telephone number, email address for confirmation, credit card issuer,….). If a customer profile exists, the system prepopulates all known values. Some fields are mandatory; others (such as email address) are optional. The customer provides any remaining required information. The system also presents information on protection products (damage waiver, personal accident insurance, etc.) and their daily costs, and asks the customer to accept or decline each product. The customer indicates his choices.

5. If the customer indicates "accept reservation," the system presents a page summarizing the reservation (type of vehicle, dates and times, any elected protection products and their charges, total rental cost), and presents the customer a reservation confirmation. If the system has an email address for the customer, the system sends a reservation confirmation to that address.

6. This use case ends when the reservation confirmation has been presented to the customer.

Please extend the following table to fill in as much as you need. **Highlight the rows that contain candidate classes.** Be sure to format your work so that it is easy to read and understand.

Marking Guide for the Lab Exercise

Category	Maximum	Mark
Use Case Document	2	
Use Case Diagram	1	
List of nouns	1.5	
Descriptions	1.5	
Candidate Classes	2	
Reasons	2	
Total	10	

Use Case Detail Description Document

(Please expand the rows to fit)

Use Case Name	
Use Case Scenario	
Brief Description Of Use Case	
Actors	
Related Use Cases	
Stakeholders	
Preconditions	
Postconditions	

Activities Flow	*Actor Action*	*Systems Response*

Exception Conditions	

Class Identification Summary Table

(Please expand the rows to fit)

Noun	Meaning	Is Class?	Reason