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SER415 Fall A 2024

Individual Assignment #3: Activity Diagrams

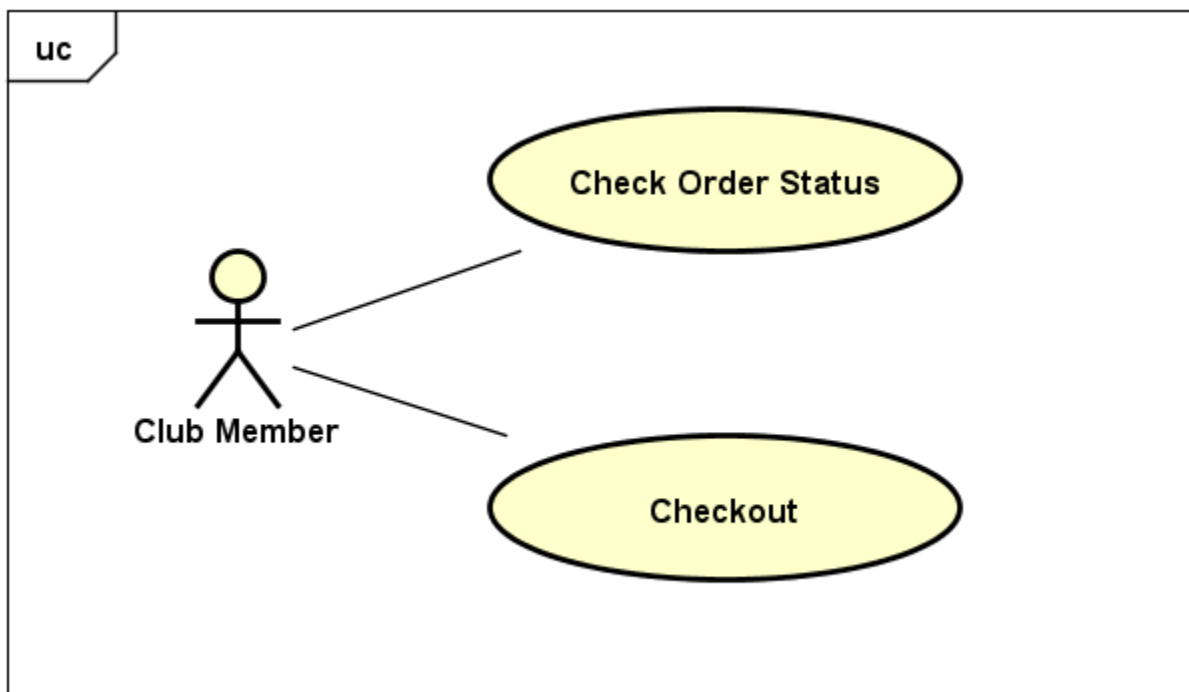
## SER Assignment: Activity Diagrams

### Procedure

For this assignment you will need to produce two activity diagrams based on specification described in two use cases.

- **Step 1:** Evaluate the use case diagram and the two use case specifications (included below).
- **Step 2:** Create a two activity diagrams one for each of the two use case specification.

### Use Case Diagram



## Glossary

### 1.1 Club Member

The Club Member is described as someone who has a valid CustomerID and password on file with Classics Inc.

### 1.2 Catalog

The catalog includes all CDs that are available for sale on the ClassicsCD.com Web site.

### **1.3 CustomerID**

The customerID is used to identify Club Members.

### **1.4 Shopping Cart**

The shopping cart is the generic term for the container of all items that have been selected for purchase.

## Use Case 1: Check Order Status

**Objective:** ClassicsCD.com members view the status of their orders.

**Preconditions:**

- User must already be a valid member of ClassicsCD.com with a CustomerID and Password.
- User must have a previously completed order.

**Postconditions:** *None*

**Primary Actor:** Club Member

**Secondary Actors:** *None*

**Trigger:** User checks status of a previous order by having user select “view status” action on the website.

### MAIN SUCCESS SCENARIO

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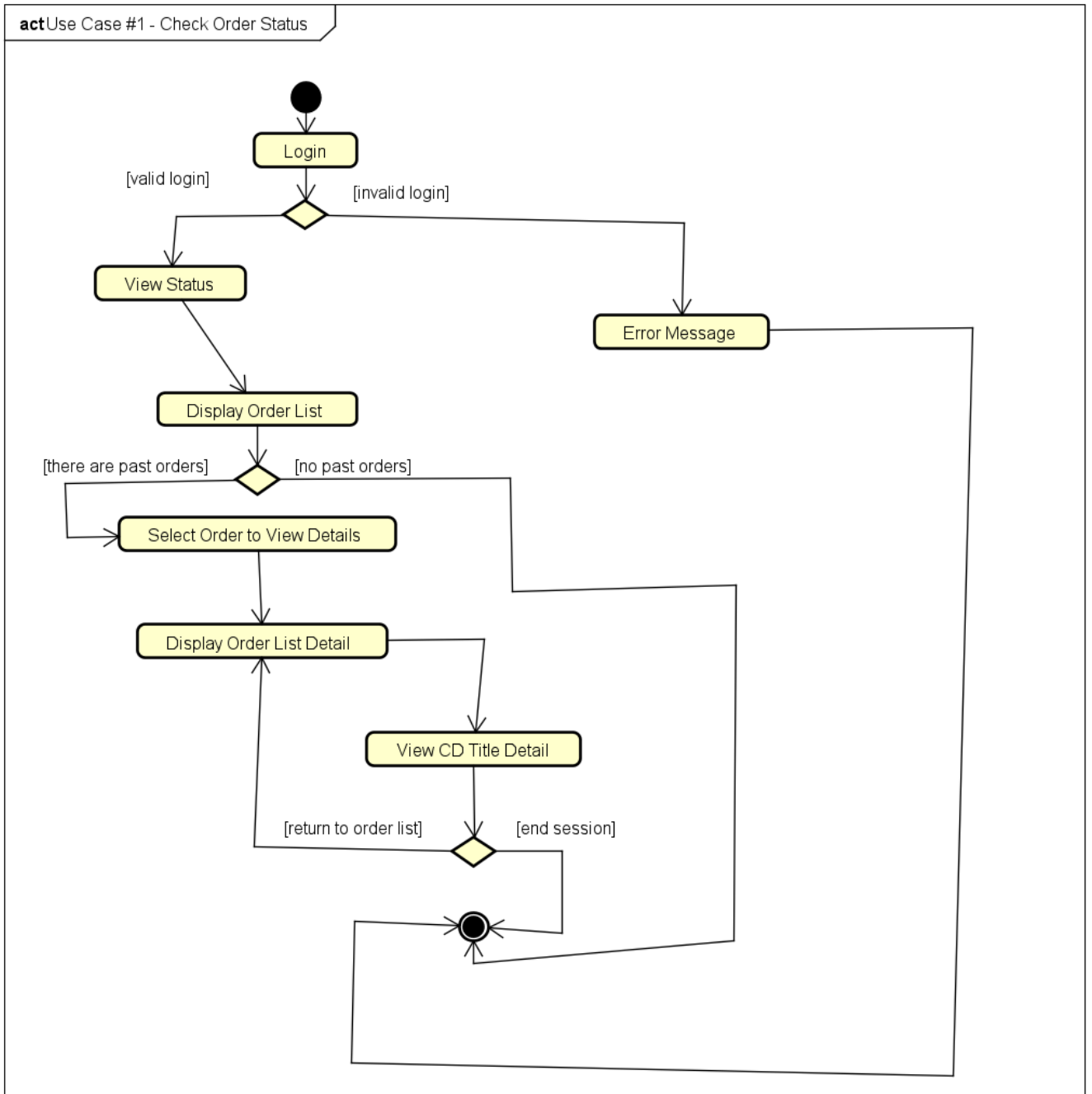
1. User checks status of a previous order by having user select “view status” action on the website.
2. If the user already has an authenticated session go to step 5.
3. The system shall display a page on which the user enters his or her CustomerID and Password.
4. The system validates the credentials and creates an authenticated session.
5. The system shall display a list of all orders placed by this user; the system sorts the list in ascending order by the order number.
6. To see the details of a specific order, the user selects an OrderID.
7. On the Details page, the user clicks a Title to see details of a particular item. Item details include:
  - Picture of the cover
  - CD Title
  - Price
  - Performer and Orchestra
  - Review of the CD
8. The use case ends when the user leaves the Details page.

### FAILURE SCENARIOS

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1. User enters an invalid CustomerID and/or Password in step 3
  - a. If the user enters an invalid CustomerID and/or password, the system displays a message indicating that the CustomerID/Password combination is not valid.
  - b. The user is given an option to return to the CustomerID/Password entry page.
2. No order
  - a. If the user has no past orders the system displays a corresponding message. The use case ends.

## Activity Diagram:



## Use Case 2: Checkout

**Objective:** ClassicsCD members want to buy the CDs they have added to their shopping cart.

**Preconditions:**

- User must already be a valid member of ClassicsCD.com with a CustomerID and Password.
- User must have added at least one item to the shopping cart.

**Postconditions:** The order is in the fulfillment system.

**Primary Actor:** Club Member

**Secondary Actors:** *None*

**Trigger:** User selects “checkout” functionality from the User Interface of the ClassicsCD.com website

### MAIN SUCCESS SCENARIO

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1. User selects “checkout” functionality from the User Interface of the ClassicsCD.com website
2. If the user already has an authenticated session go to step 5.
3. The system shall display a page on which the user enters his or her CustomerID and Password.
4. The system validates the credentials and creates an authenticated session.
5. The system displays a summary of items in the shopping cart, including the following details from the user’s membership records:
  - Shipping address
  - The last four digits of the member’s credit card
  - An estimate of when Classics will ship the product.
  - The total amount that Classics will charge to the member’s credit card.
6. The user enters his or her e-mail address.
7. The user completes the order.
8. The system confirms the order.
9. If the system is able to complete the order immediately, then the system displays a confirmation that the order has been placed and provides an order number for reference. Otherwise, the system indicates that the user will receive an e-mail when the order is completed.
10. The use case ends when the user leaves the order confirmation page.

### FAILURE SCENARIOS

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1. User enters an invalid CustomerID and/or Password in step 3
  - a. If the user enters an invalid CustomerID and/or password, the system displays a message indicating that the CustomerID/Password combination is not valid.
  - b. The user is given an option to return to the CustomerID/Password entry page.
2. Empty cart
  - a. If the user’s shopping cart is empty, the system displays a message indicating that user has not selected any items to purchase. The use case ends.

### Activity Diagram:

act Use Case #2 - Checkout

