**Familiarity Review Template**

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**Coding Topic: Sequence Drawing Diagram**

**Description of Understanding:** A use case diagram is a representation of the actions of a system. These actions include the user input and the system response.

In this example I am documenting the actions of a typical ATM machine interaction with a human customer.

The diagram starts at the top left.

The user inserts their ATM card to begin the process (Step 1).

The ATM responds with a request for the user to input their PIN Number (step 2).

The user responds with an input of their PIN Number (Step 3).

The ATM then queries their backend system to verify that the PIN entered by the user is valid (Step 4).

If the PIN is accepted (validated) the back end sends a prompt to the ATM machine to query the user for their action/option (Step 5).

The ATM then asks for the user option (Step 6).

The user responds by entering their desired option. IN this case we assume a withdrawal. (Step 7).

The ATM then responds by asking for the amount of the desired withdrawal (Step 8).

The user then enters the amount desired (Step 9).

The ATM then queries the backend system to assure that the amount requested is available (Step 10).

The backend system notifies the ATM that the desired amount is valid. (Step 12)

The ATM then dispenses the cash to the user (Step 13)

The ATM then prompts the user to take the cash and waits for the cash to be taken (Step 14).

The user takes the cash (Step 15).

The ATM then prompts the user for an option to continue (Step 16)

The user enters their choice the terminate the session (Step 17)

The ATM terminates the session by printing a receipt for this transaction (Step 18)

**Teaching Video:**

**Starting at:**

**Also Integrated with:** Collections Example System Test

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| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| Sequence Drawing | <https://github.com/Dimick-Lynn/CIT360/blob/master/Sequence%20Drawing.png> | Sequence of steps involved in completing a cash withdrawal from ATM machine | Mine |
| [Use](https://github.com/Dimick-Lynn/CIT360/blob/master/Collections%20Example%20System%20Test.xlsx) Case Order with Credit Card | <https://github.com/Dimick-Lynn/CIT360/blob/master/Use%20Case%20Order%20with%20Credit%20Card.png> | Results of System Test for the code above demonstrating Collections | Mine |
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**Coding Topic:** Use Case Diagram

**Description of Understanding:** This Use Case diagram represents the interactions and processes for a customer placing an order with an online vendor. These actions are not necessarily required for each order.

In this diagram we can see that the Customer creates the transaction. The customer will interact the vendor when they perform any of the following actions: Return/Cancel the order, Get Product Information, Check Order Status, Add product to Order, Review/Approve order, and Place order.

In the cases where the customer returns or cancels and order the system crates n interaction with the Shipping department.

The customer also creates an interactions with Customer Service when he returns or cancels an oerder, requests product information, or checks the order status. These interactions may include interactions with the shipping department but are not always needed.

When the customer completes the order there is an interaction with the system as they Approve the order and place the order.

While this is a very simplified drawing it illustrates a single use case and the processes that are involved.

**Teaching Video:**

**Starting at:**

**Also Integrated with: NA**

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| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| [Use](https://github.com/Dimick-Lynn/CIT360/blob/master/Collections%20Example%20System%20Test.xlsx) Case Order with Credit Card | <https://github.com/Dimick-Lynn/CIT360/blob/master/Use%20Case%20Order%20with%20Credit%20Card.png> | The interactions in a drawing as described above. | Mine |
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**Coding Topic:** Use Case Document

**Description of Understanding:** This Use Case document demonstrates a typical online purchase by a customer and an online vendor.

It is loosely based upon the Use Case Diagram in the example above.

**Teaching Video:**

**Starting at:**

**Also Integrated with: NA**

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| --- | --- | --- | --- |
| **File** | **Git Link** | **What should I be looking for?** | **Sandbox or Your code?** |
| [Use](https://github.com/Dimick-Lynn/CIT360/blob/master/Collections%20Example%20System%20Test.xlsx) Case Document | https://github.com/Dimick-Lynn/CIT360/blob/master/Use%20Case%20Document.docx | The Documented process for the Flow for a customer order in an online ordering system. | Mine |
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