Reflection 2: Use Cases

Start Assignment

- Due Monday by 11:59pm
- Points 5
- Submitting a file upload

Reflection 2 - Use Cases

Here, we will be constructing some use case diagrams, and then reflecting on the process and issues you encountered.

Please complete the following scenarios on your own. You can use scratch paper or do it digitally. You do not need to submit your diagrams or specifications. Remember, with these there is not a specific answer so don't get discouraged if you feel stuck, just try your best and write about your issues in the reflection.

Once you have done all of these scenarios, please read and complete the reflection questions at the end of this document. You will then submit that reflection on Canvas as your assignment.

Use Case 1 (Diagram Only - Try to come up with at least 3 Use Cases):

"We are replacing our online ordering system, and converting from one where people call and order on the phone to an online ordering system. A customer can purchase any number of goods, and our delivery person will have to collect all of those items from the warehouse and drive them to the customer. A warehouse manager will have to double check if there is enough stock of an item after the order and place a fulfillment request to our manufacturing plant if they determine that there is not enough inventory remaining. There is a special case where the customer might try to order a restricted item. If they do, a Level 10 manager from HQ will have to approve or deny the order on a case by case basis. The customer may also choose to return an item which means the delivery person has to go to the customer's house to retrieve the item and return it to the warehouse."

Use Case 2 (Detailed Specification only - Pick 1 Use Case):

"We are building the controller system for a robot that will monitor emperor penguins in Antarctica. A researcher is able to give one of two commands to the robot. The first is to move, which will make the robot move the given amount in the given direction. If there is a penguin nearby, the robot will alert the researcher and ask them to confirm before moving in order to not scare the penguin. The second command is to collect data. The robot will reject this command if there are no penguins nearby.Otherwise, it will collect the data and send it back to the researcher. Finally, if the temperature drops below a certain threshold, the robot will alert the researcher and shut itself down to prevent damage. The researcher can then send a command to restart the robot, but this will only work when the temperature has returned to operating levels."

Use Case 3 (Both a Diagram and the Detailed Specification of the Use Case from this scenario):

"At Happy Hippo's Pizza, we are working on a new system for customers to place orders from their table. The most important thing they can do is order pizza! They can be ordered by the slice, or as a whole pie. Whole pizzas have three different sizes to pick from, while slices can be ordered in sets of 1, 2, or 3 at a time. There are six different toppings that can be ordered for either whole pizzas or slices. After their order has been made, it gets sent to the kitchen, who will place the completed order up for a server to bring to the table."

Reflection Assignment

Please answer the following questions. For each question, be sure to provide a full and well thought out explanation of your process. Your goal here is to spend some time reflecting on the activity you just completed, not just providing quick answers to the questions.

1. In Use Case 1, did you have any difficulty coming up with your three use cases, or did several use cases jump out at you as you read the description?
2. In Use Case 2, was there any step of providing the detailed specification that caused you particular trouble?
3. In Use Case 3, did you feel you had enough information to complete the use case, or did you have questions you would have liked to ask the client?
4. Overall, do you feel use cases can be helpful in software development or are there any drawbacks you feel outweigh the benefits?