IS446 – Systems Analysis and Design
Use Case Specification and Activity Diagram
Instructions

Overview
You will be creating a use case specification and activity diagram(s) for the *Pick Order* use case for the iSchool Webstore System. The purpose of the activity diagram(s) is to illustrate scenarios shown in the use case specification.

Assignment Details
Order picking is the activity in which webstore workers pick merchandise from the shelves in order to fill a customer order. The *Pick Order* use case specification will describe this process. Here are some details of how the process has been envisioned in discussions with the users thus far:

- The order picker should be able to select which order that they wish to pick from a list of orders that are ready for picking.
- The system should print a *Picking List* for the order picker to use while picking the order.
- Merchandise for an order should be placed in a bin as it is picked.
- When all of the merchandise has been picked for an order, the order picker will tell the system that this order has been fully picked.
- When the activity is finished, the bin with all of the merchandise and the *Picking List* should be placed in a pile designated for orders awaiting shipping.

Exercise 1 (Regular)
You will be creating two documents for this exercise:

Use Case Specification
Use the MS Word template provided in the Weekly Schedule to create a use case specification for *Pick Order*. Follow the approach that I demonstrate in the tutorial video. Your specification should include the Basic Flow and several alternative flows. In the list of Key Scenarios, list the Basic Flow and call attention to the activity diagram that you will be creating for the Basic Flow.

Activity Diagram
The activity diagram that you are creating should describe the Basic Flow scenario. This is meant to illustrate the Basic Flow and it should fully agree with the narrative description in the Basic Flow. Follow the approach that I demonstrate in the tutorial video.

Exercise 2 (Challenge)

If you choose to submit Exercise 2, you will be creating a second activity diagram:

Activity Diagram

The activity diagram that you are creating should describe one of the alternate flow scenarios for this use case. This is meant to illustrate the alternate flow scenario and it should fully agree with the narrative description of the scenario in the use case specification. Remember to include all parts of the scenario including the beginning of the action in the basic scenario, continuing with action from the alternate flow, and ending when the use case ends.

Format

All documents should be converted to PDF. Depending upon which exercises you choose to submit, this will be either 2 or 3 PDF documents. These documents should be placed in a properly named directory. That directory should be zipped up and submitted to Canvas. Please see below for more instructions on the naming of files and directories.

File and Directory Naming

Create a directory that will hold your documents. Name the directory using the following scheme:

surname_givenname_use_case_specifaction_and_activity_diagrams

If I were completing this assignment, I would name my directory:

trainor_kevin_use_case_specifaction_and_activity_diagrams

At a minimum, the directory should contain your two documents from Exercise 1. These should be in PDF format and should be named according to the following scheme:

surname_givenname_use_case_specification.pdf
surname_givenname_basic_flow_activity_diagram.pdf

If you choose to submit Exercise 2, your directory should include a third PDF document:

surname_givenname_alternate_flow_activity_diagram.pdf

If I were completing this assignment, I would name the files as follows:

trainor_kevin_use_case_specification.pdf
trainor_kevin_basic_flow_activity_diagram.pdf
trainor_kevin_alternate_flow_activity_diagram.pdf

Use a zip utility to zip up the entire directory to create one file for submission. The submitted file should be named according to the following scheme:

surname_givenname_use_case_specifaction_and_activity_diagrams.zip

If I were completing this assignment, I would name the files as follows:

trainor_kevin_use_case_specifaction_and_activity_diagrams.zip

<mark>PLEASE NOTE: All file names must be in lower case. Deductions will be made for submissions that do not conform to this standard.</mark>

Due Date
Please see the Weekly Schedule for the date and time when this assignment is due.

Last Revised
2022-10-07