CS2043 Assignment 4 — UML Diagrams

Due: Monday FEB-14 2022 by 4pm

Even though this assignment involves the system you are building as part of a team, do this assignment in pairs (pair up with someone on your Project Team). You can talk amongst pairs to compare ideas, but prepare your solution independently from any other pair. Note that solutions which are unreasonably similar to other paired submissions will be reported as an academic offense. Also, solutions which are barely complete, or approached poorly will not be assessed.

Problem Statement:

This assignment refers to the team project for the course (ie the Student Transcript Analyser). Draw a set of UML diagrams that depict your current understanding of the requirements for this system.

To get full credit for this assignment, submit a pdf document to D2L by the deadline – 1 submission/pair. Before you submit, join an Assignment 4 Pair (through <Communication<Groups, so you can submit to a pair-group folder and receive pair-group feedback). Your document should also Include the names of contributing authors at the top of the 1st page along with the title of the assignment (Assignment 4: UML diagrams). An automated tool must be used to prepare all UML diagrams (I recommend UMLet). You can submit more than once until the assignment deadline.

Based on your current understanding of the requirements for the Student Tracking Application we are developing in class:

a) Draw a use case diagram which depicts how users will interact with the system.

b) Draw a class diagram which depicts classifier elements (domain) in the system and their relationships which each other. This is a depiction of your current understanding of the environment (application) domain (not the solution domain).

c) Pick any two use cases (1 per partner) and use an activity diagram to delineate a flow of events through each of the selected use cases. Choose use cases and a level of depiction which will allow you to detail system activity and demonstrate your ability communicate through activity diagrams. Be sure to indicate on your diagram which use case you are drawing, and who is responsible for the diagram.

d) Compile a glossary of terms which define the vocabulary of the system (concepts that the user thinks about). The glossary should correspond closely with the diagrams in a-c (especially the class diagram).

Don't forget to Join a group on D2L so that you can submit.