COMP225 Required Term Project Guidelines – Group Work

Winter 2017 -- Professor Mohamed Khan – Kindly refer to me for any editing of this document.

**Group Work** : Max 4 members in a group

Three Term Assignments (these do not include Quizzes & Exercises) will be given over the course of the semester: ALL diagrams to be drawn must follow the UML standards for software development.

You must use **MS-Visio and other tools to present your work.**

**Unless specified otherwise, all submissions must be a single document in MS Word.** Name your document in the following format: **<Application Name>\_Assignment X>** (Example: Name of the document for the Library Application : **LibraryApplication*\_Assignment-A***

* Generate a table of contents
* Provide the title page with information about the group number and the members of the group.
* Make document readable

Submit the assignments to the appropriate drop box.

All assignments will be marked for:

* Correctness
* Completeness
* Clarity
* Organization
* Standards in UML diagramming

Every assignment, in addition to the assignment deliverables, must include an appendix containing the following:

* Record of all your meetings and discussions with the customers
* Team meetings minutes outlining the major decision and work assignments.

**Important:** Late Assignments will incur a penalty

## Part A: The Business/Domain Model

### Due Fri week 5 at 23:59

### Total Marks: 10 points

### Deliverables:

1. Create Vision document for your problem domain **( 3 Marks)—See Slides 20 & 22.**
2. Interview questions
   1. Prepare interview questions that you as a software developer will ask the stakeholders. The questions should clarify issues surrounding the applications that you are developing. (Textual) **( 2 marks) -- Chapter 2 – slides 17 to 31 – use table format given to you by your instructor.**
3. Describe THREE essential workflows.
   1. Illustrate by showing the activity diagram workflow for each ( Textual + diagram) **( 5 marks)** **– Chapter 2 Slides 31 -37 ( Need to show a point-form description of the process steps)**

## Part B: Use Case Model - Object linking & interaction Plus Domain class diagram

### Due Fri week 9 at 23:59

### Total Marks: 10 points

This assignment is building on your project Part A. It should be appended to Part A document.

### Deliverables

1. UML Use case diagram : **( Ch 3 - See slides 8, 26, 27, 28, 33 & 34 for Qs. 1, 2 & 3)**
   1. Fully labeled with all actors, use cases and their associations.
2. Prioritized list of use cases.
3. Brief use case descriptions
   1. For all use cases identified provide a brief description
4. Domain class diagram – **Ch. 4**..slides --
   1. Develop domain class diagram for your customer problem with association and multiplicities
   2. Describe the multiplicities that you have entered.
   3. Sketch an ERD ( Enter just Primary & Foreign Keys with Crows’ foot notation)

Refer to slide 26 Chapter 4:

Example: A Customer opens 1 or many accounts but an Account belongs to one and only one Customer. Etc

## Part C: User’s Stories, Systems Sequence, Object State and the Gantt Chart

### Due Fri week 12 at 23:59

### Total Marks: 10 points

This assignment is building on your Part A and B. It should be appended to existing document.

### Deliverables:

1. Add at least 2 methods to each class in the Domain class model you developed in part B.
2. Use Case full description form / Users’ Stories
3. For the each of the 3 use cases in the prioritized list provide a fully developed users’ story and a fully developed use case description.
4. System Sequence Diagrams --- Chapter 5 – Slides 22-26

* For the first two **use cases** on the prioritized list of which Users’ stories were written.—

1. State Machine Diagrams ---- Chapter 4- Slides 27-37

* Develop 2 state machine diagrams of **any two objects** identified from the classes

1. Gantt chart -- See Gannt Tutorial in you Content folder.

* Illustrate tasks from Parts A-C and the time estimation for all use cases and other activities that you have worked on - produce a Gantt chart for All tasks completed