

COMP 433: Term Project

PHASE 3: Requirements Engineering (Analysis & Modeling)

Revision 2

Due on June 2, 2021 at 2:00 PM

400 Points (40% Overall)

Task 1: Overall Use Case Analysis (75 points)**Category:** *Team Task*

In **Phase 2**, your team managed to capture the essential user and system requirements to achieve the main business service. In this task, your team must identify and draw the overall system use case diagram.

Task 2: Detailed Use Case Analysis (75 points)**Category:** *Individual Task*

In this task, each team member is required to choose **one** core business use case based on the user requirements (s)he created in **Phase 2**. The use case must be *non-trivial* and has normal, alternative and error flows. Each team member is expected to draw the corresponding use case diagram and write a detailed analysis description for that use case.

Task 3: System Class Modeling and Analysis (150 points)**Category:** *Team Task*

In this task, the team is required to identify the system analysis classes and draw an abstract analysis class diagram and a detailed analysis class diagram.

Task 4: System Sequence Modeling and Analysis (100 points)**Category:** *Individual Task*

In this task, each team member is required to draw a sequence diagram for the same use case (s)he has written a detailed use case description for in **Task 2**.

Phase 3 Deliverable

Each **team leader** is required to submit a modified version of their SRS document with data and diagrams corresponding for the aforementioned tasks as follows:

1. A single PDF file named **TeamName-SRS-Phase3.pdf**
2. Updated revision history for proper revision tracking.
3. Updated Section 1 (Introduction) and Section 2 (Overall Description).
4. Subsection 5.1 (Overall Use Case Diagram) based on the analysis conducted in **Task 1**. When listing actors, make sure to briefly describe their semantic description and update/revise Section 2.3 (User Classes and Characteristics) if needed.
5. Subsection 5.3 (Specific Use Cases) based on individual team member analysis conducted in **Task 2** and **Task 4**. When documenting a use case, you are advised to use the provided template in the SRS document. *You must specify the team member responsible for writing each detailed use case.*
6. Subsection 6.1 (High-Level Class Diagram) and 6.2 (Detailed Class Diagram) based on the analysis conducted in **Task 3**.

Important Note: *UML diagrams must be drawn using any convenient UML drawing tool that supports at least UML 2.0. The team leader must ensure that all members use the same UML tool throughout the project in a consistent manner.*