AL–YAMAMAH UNIVERSITY

COLLEGE OF ENGINEERING AND ARCHITECTURE

DEPARTMENT OF SOFTWARE ENGINEERING

Project

Foreign Exchange Management System

(**FXMS**)

SWE 301 – Software Requirements Engineering

Spring 2023–2024

Dr. Noureddine Abbadeni

Part 3: Requirements Specification and Modeling

(**Foreign eXchange Management System – FXMS**)

Deliverables:
1-/ UC Model
2-/ NFRs specifications
3-/ Activity Diagrams
4-/ Class Diagram
5-/ State Diagrams
6-/ Sequence Diagrams

Rules:
- Each group is responsible for visiting the professor in his office to validate their work before the deadline given below.
- Students who do not validate their work before the deadline will be penalized
- Students who present non-serious work to the professor will be penalized.

Deadline: May 7, 2024

You are required to do the following tasks:

1./ Produce a use case model (diagram + templates) of the system to specify functional requirements.
2./ Select two "complex" use cases and complement each with an activity diagram.
3./ Produce a complete specification of the non-functional requirements using appropriate metrics.
4./ Produce an "Analysis" class diagram
5./ Identify which objects of which classes have different states and model their states and state transitions with a state diagram.
6./ Produce sequence diagrams for the same use cases for which you have done activity diagrams.

Note. Always, perform a **peer-review** within the team to ensure the quality of your work, before you present your work to the professor for a **formal review**.