

# **Assignment 2 – Instructions Document**

**Course: Software Engineering**

**Assignment Title: SRS Extension – System Modeling & Documentation**

**Submission Deadline: Friday, 21 November 2025 – 23:59 (Midnight)**

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## **Overview**

Assignment 2 is a continuation of your previously submitted **Software Requirement Specification (SRS) Document**. In this assignment, you will expand your SRS by adding detailed introduction sections and by modeling your system using different UML diagrams. This assignment focuses on strengthening your understanding of requirement documentation and system modeling.

You are required to write the following sections clearly, concisely, and in a professional documentation format.

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## **1. Introduction and Background**

Write a brief but clear introduction of your project. Explain the context, the domain, and why this project is important.

### **1.1 Product (Problem Statement)**

Provide a short description of the software being specified.

### **1.2 Background**

Describe the domain of the system. What environment does the system work in? What is the field or industry?

### **1.3 Scope**

Describe what part of the product is covered by this SRS. Define the boundaries and what the system will or will not include.

### **1.4 Objective(s) / Aim(s) / Target(s)**

List all objectives that should be achieved upon successful completion of the project.

### **1.5 Challenges**

Write the key difficulties and constraints expected in the system.

## **1.6 Learning Outcomes**

State what you are expected to learn or gain from building this software.

## **1.7 Nature of End Product**

Describe what kind of final product you will deliver (e.g., prototype, working software, demo application).

## **1.8 Completeness Criteria**

State the criteria that evaluators will use to consider your project complete.

## **1.9 Business Goals**

List the business or corporate goals your software addresses.

## **1.10 Related Work / Literature Survey / Literature Review**

Provide a brief review of existing systems or research related to your topic.

## **1.11 Document Conventions**

Describe any writing standards or conventions used in the SRS. Examples: formatting rules, icons, terms, special highlighting.

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# **2. Required Diagrams**

You must create and include the following diagrams in your assignment. These should be neat, labeled, and reflect your system accurately.

## **2.1 Context Diagram**

A high-level diagram showing the system boundary and interactions with external entities.

## **2.2 Use Case Diagrams**

- **Holistic Use Case Diagram** – showing the entire system.
- **Use Case Diagrams per major functionality** – break down complex modules.

## **2.3 Sequence Diagram**

Show the step-by-step interaction of objects for one major use case.

## **2.4 Activity Diagram**

Model the workflow of a major functionality of your system.

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# **Submission Format**

- Submit a single **Word or PDF document** containing the required sections and diagrams.
  - File name format: **RollNumber\_Name\_Assignment2**
  - Late submissions will not be accepted.
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**End of Document**