CS 4398/5394: Advanced Software Engineering Project

Assignment 1: Project SRS Document

Assignment Due: February 27, 2026, 11:59 PM
Total Points: 100

In this assignment, your team will submit a Software Requirements Specification (SRS) document based on the provided structure. The SRS should align with IEEE 830-1998 standards and demonstrate your understanding of functional and non-functional requirements.

Deliverables:

1. **Table of Contents (5 points)**
   Provide a clear and organized table of contents.
2. **Introduction (15 points)**
   - Purpose of the SRS
   - Problem statement
   - Intended audience and document conventions
   - Product scope
   - References
3. **Statement of Functional Requirements (35 points)**
   - Functional requirements structured by user tasks
   - Use-case, class, and sequence diagrams where applicable
   - Screenshots of the system's GUI for each task (if applicable)
4. **Non-Functional Requirements (20 points)**
   - Performance (e.g., response time, scalability)
   - Security (e.g., access control)
   - Usability (e.g., user-friendliness)
   - Maintainability (e.g., ease of updates)
5. **Design/Implementation Constraints (10 points)**
   - Standards compliance (e.g., IEEE standards)
   - Development constraints (e.g., platform limitations)
6. **References and Sources of Information (5 points)**
   List all references used for developing the SRS.

Submission Guidelines:

- Submit a single PDF file via Canvas.
- Include on the first page:
  - Project Title

- ○ Group Number
  - ○ Group members' names and TXST email addresses
- Ensure that all sections are clearly labeled and organized according to the outline.

Additional Notes:

- The project should have a sufficiently large scope for a group of four students to complete.
- Include graphical user interface (GUI) components where applicable.