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| **SE322: Software Intensive Systems Engineering** | **Semester Project** |
| **Semester 2 5785** | **Due: 14 May 2025** |
| **Lecturer: Michael J. May** | **Kinneret College** |

# Iteration 1 and First Design Review

This is the first design iteration for the semester project. You'll write some critical parts of the project documents, sketch some of its GUIs, and plan some of the software's behavior. At the end of the iteration, there will be a design review in which you'll get feedback on your work so far.

## 1 What to do: Documents

In this iteration you'll begin working on the requirements list and the *Software Requirement Specification (SRS)* for the project.

### 1.1 Requirements

Prepare the full requirements table for the complete system. Use the template for the requirements table from Moodle. Fill in the following columns of the template:

1. Header information: Project name, Student names
2. Requirement ID #
3. Requirement text
4. Source (*e.g.* user story, derived)
5. Functional category (FR)
6. Non-Functional category (NFR)

You **may skip** the trackback SUC, HW, and Class columns for now.

### 1.2 SRS

Complete the following sections of the SRS:

1. Header information (project name, authors, sources)
2. Section 1: System Use Case Diagram for the complete system
3. Section 2: List of actors and stakeholders
4. Section 3: List of System Use Cases for the complete system
5. Section 4:
   (a) System Use Case details (all parts) for **5** main use cases
   (b) Activity diagram for **2** System Use Cases, including swim lane divisions for actors and system elements
6. Section 5:
   (a) Screen shots for user interfaces for the 5 use cases detailed. The screen shots must include elements (*i.e.* buttons, widgets, text boxes, menus) that support the operations described in the use case details.

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## 2 What to submit by 14 May 2025

Submit **all** of the following documents via Moodle:

1. User story. Highlight any changes from the previous submission.
2. Requirements file (XLSX) based on the temple provided and filled in as per the instructions above.
3. SRS document (DOCX) with sections 1, 2, 3, 4 (partial), 5 (partial) filled in as per the instructions above.
4. Slides to be presented at the design review (see next section).

## 3 Design Review

On 15 May 2025, we'll take time from class for each team to present their work to the whole class. Each team will have 20 minutes to present the following:

1. 1 cover slide with the name of the project and the names of the students on the team.
2. 1 slide with a summary of the user story
3. A selection of important requirements
4. A review of the use case diagram
5. 1 use case - one with the activity diagram in the SRS.
6. The screen shots for the use case for which the activity diagram was created

To make the presentations move more smoothly and remain interesting, practice the presentation before class to ensure it can be completed within 20 minutes. When presenting in class, explain what is written on the slides, do not just recite the words off the slide.

## 4 Feedback and Evaluation

Each team will receive oral feedback during the design review and written feedback with a design review grade.

Grades for the submitted work will be assigned as follows:

- User story: 5%
- Requirements: 20%
- SRS:
    1. Header info: 5%
    2. System use case diagram: 10%
    3. List of system use cases and actors: 5%
    4. System use case details (5): 35%
    5. Activity diagrams (2): 10%
    6. Screen shots (5): 10%

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