Software Engineering with Objects and Components
Practical Work: Tutorial 4

At this point, you commence work on the second deliverable for SEOC. In this part of the practical, you begin to work towards creating an implementation for your system. The goals of the practical are:

1. To begin preparation for creating deliverable 2.

2. To practice creating sequence diagrams.

Tutorial Instructions

You have 30 minutes to create sequence diagrams for your system. Each team should discuss the following:

- the use cases you have chosen to work on.

- the sequence diagrams for the chosen use cases and relevant classes.

Tutorial Outcomes

By the end of this tutorial your group should

1. Gained some experience of creating sequence diagrams.

2. Have some preliminary sequence diagrams.

3. Your team should also take this opportunity to discuss how to organise for the creation of the second deliverable.

Tutorial Activities

Sequence Diagrams [40 mins]

The activity is structured in the following way (note that this is very tightly timed – your tutor will enforce these so the activity fits in the available time). For deliverable 2 you will work in the same teams as for deliverable 1. The aim of this practical is to gain experience of creating sequence diagrams that capture the dynamic aspects of use case and class diagrams.

☞ *Collectively* ✎ The team should decide on (related) use cases that you will work on. ***Note that your choices need to take into account requirements priorities with respect to main functionalities and team interactions.***

Use Case 1:

Use Case 2:

Other relevant Use Cases:

☞ *Individually* ✎ Each member of the team *individually* considers the selected use cases and begins to sketch related sequence diagrams.

List Classes	Draw Sequence Diagram (Use Case 1)

List Classes	Draw Sequence Diagram (Use Case 2)

☞ *Collectively* ✎ The team draws ideas together to create agreed sequence diagrams for your chosen use cases.

List Classes	Draw Sequence Diagram (Use Case 1)

List Classes	Draw Sequence Diagram (Use Case 2)

Discussion [10 mins]

✎ *Take notes of any required changes to your use cases and classes (e.g., different responsibilities, different collaborators, new classes, etc.).*

♯	Type of Issue/Change	Identified issue, change or comment/rationale