

## Software Engineering with Objects and Components

### Practical Work: Tutorial 5

This is your fifth tutorial. 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 and communication diagrams.

### Team Resources

- 1 instruction sheet (this page)
- 1 blank OHP slide
- 1 non-permanent OHP pen
- 20 minutes preparation time
- 10 minutes presentation time

### Instructions

You have 20 minutes to create sequence and communication diagrams for your system and prepare a short presentation to the rest of the group. Each team will give its presentation in order as specified by the tutor. Your presentation should include the following:

- A brief summary of the use cases you have chosen to work on.
- The sequence and communication diagrams for the chosen use cases and relevant classes.

### Activities

#### Sequence and Communication Diagrams [20 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 and communication diagrams that capture the dynamic aspects of use case and class diagrams.

- The team should decide on (related) use cases that you will work on.
- Each member of the team *individually* considers the selected use cases and begins to sketch related sequence and communication diagrams.
- The team draws ideas together to create agreed sequence and communication diagrams for your chosen use case.
- The team writes *one* OHP slide containing their sequence and communication diagrams.

## **Presentation [10 mins]**

Each team in turn is given 10 mins to present their sequence and communication diagrams.

## **Tutorial Outcomes**

By the end of this tutorial your group should

1. Gained some experience of creating sequence and communication diagrams.
2. Have some preliminary sequence and communication diagrams.
3. Your team should also take this opportunity to discuss how to organise for the creation of the second deliverable.

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