

Software Engineering with Objects and Components

Practical Work: Tutorial 1

Note that you are required to do some preparation for the tutorial. Before your tutorial, on your own, read over the main documents, which represent the basis for your system requirements.

This is your first tutorial. The aims of this tutorial are:

1. To get to know the members of your tutorial group.
2. To form the teams in your tutorial group.
3. To agree on a name for your software company (tutorial group).
4. To gather system requirements.
5. To practice creating use cases.

Team Resources and Instructions

Team Resources: 1 instruction sheet (this page), 1 blank OHP slide, 1 non-permanent OHP pen, 1 post-it block, 25 minutes preparation time, 5 minutes presentation time.

Instructions: You have 20 minutes to gather some system requirements, to create some use cases for your system and to prepare a short presentation to the rest of the group. Each team will give a presentation of the results. Your presentation should include the following:

- The names of each of your team members.
- The main requirements you have identified.
- The use cases you have produced.
- A proposed name for the software company your tutorial group represents.

Tutorial Activities

The activities are 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).

Forming the Teams [10 mins]

Your tutor in collaboration with you decides on the composition of the three teams in the tutorial group. These are: **Orders (O)**, **Plants (P)**, and **Deliveries (D)**.

Gathering Requirements and Creating Use Cases [25 mins]

- *Individually* each member of the team reads the preliminary project documents and identifies the main requirements (e.g., functional or non-functional) as well as open issues (e.g., unknown or unspecified requirements). Write each requirement/open issue in a post-it.
- *Collectively* each team discusses the identified requirements by reviewing the post-it in order to consolidate any understanding about the system.
- *Collectively* each team chooses some of the (functional) requirements for creating a list of use case scenarios as they read the document. Consolidate your lists and generalise the scenarios to create a preliminary collection of use cases for your facet of the system. *The whole team* should attempt to merge the list of potential use cases to create a composite list.
- *The whole team* writes *one* OHP slide with the name of the team and their use case model for their part of the system.

Presenting Preliminary Requirements and Use cases [15 mins]

5 mins each team *Each team in turn* is given 5 mins to present their prototype use cases for their subsystem.

Tutorial Outcomes

By the end of this tutorial your group should

1. have agreed on a name for your software company
2. have a preliminary requirements and use case model for your part of the system.

Moreover, your team should also take this opportunity to organise how and when you are going to coordinate the preparation for subsequent tutorials.

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