

Object-Oriented Software Engineering
Conquering Complex and Changing Systems



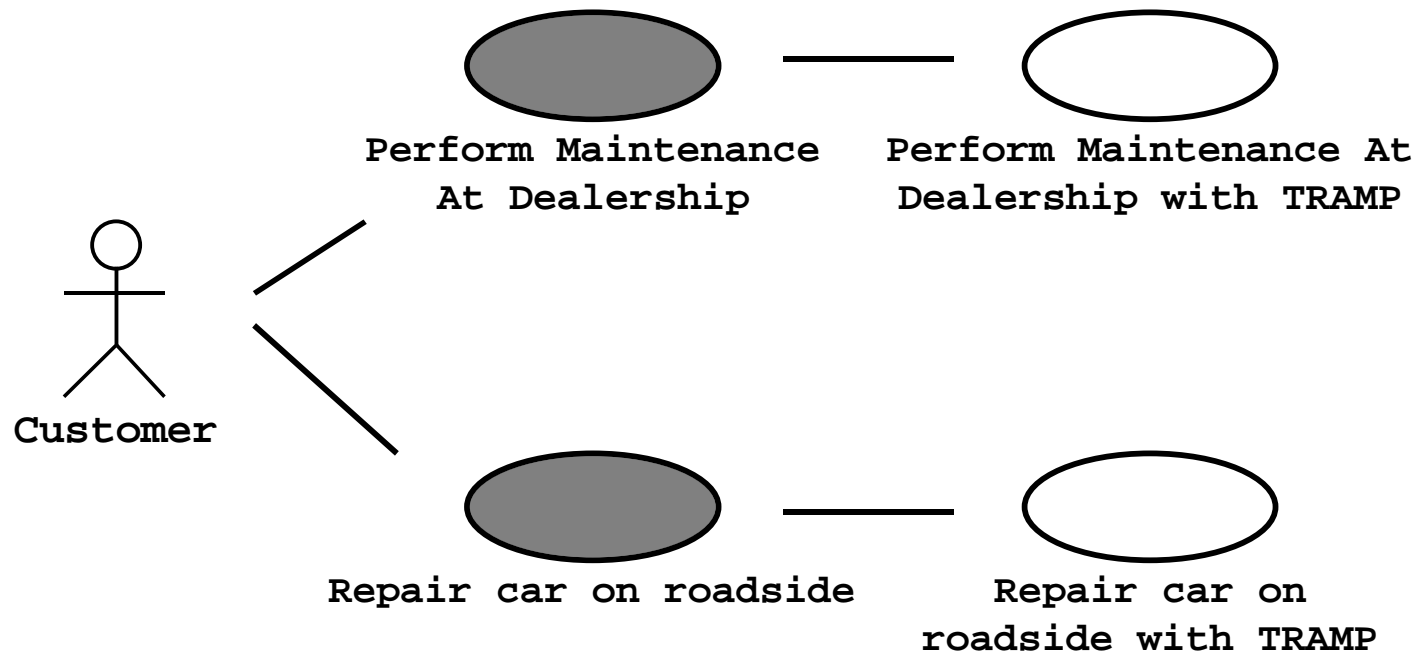
TRAMP RAD

Activities

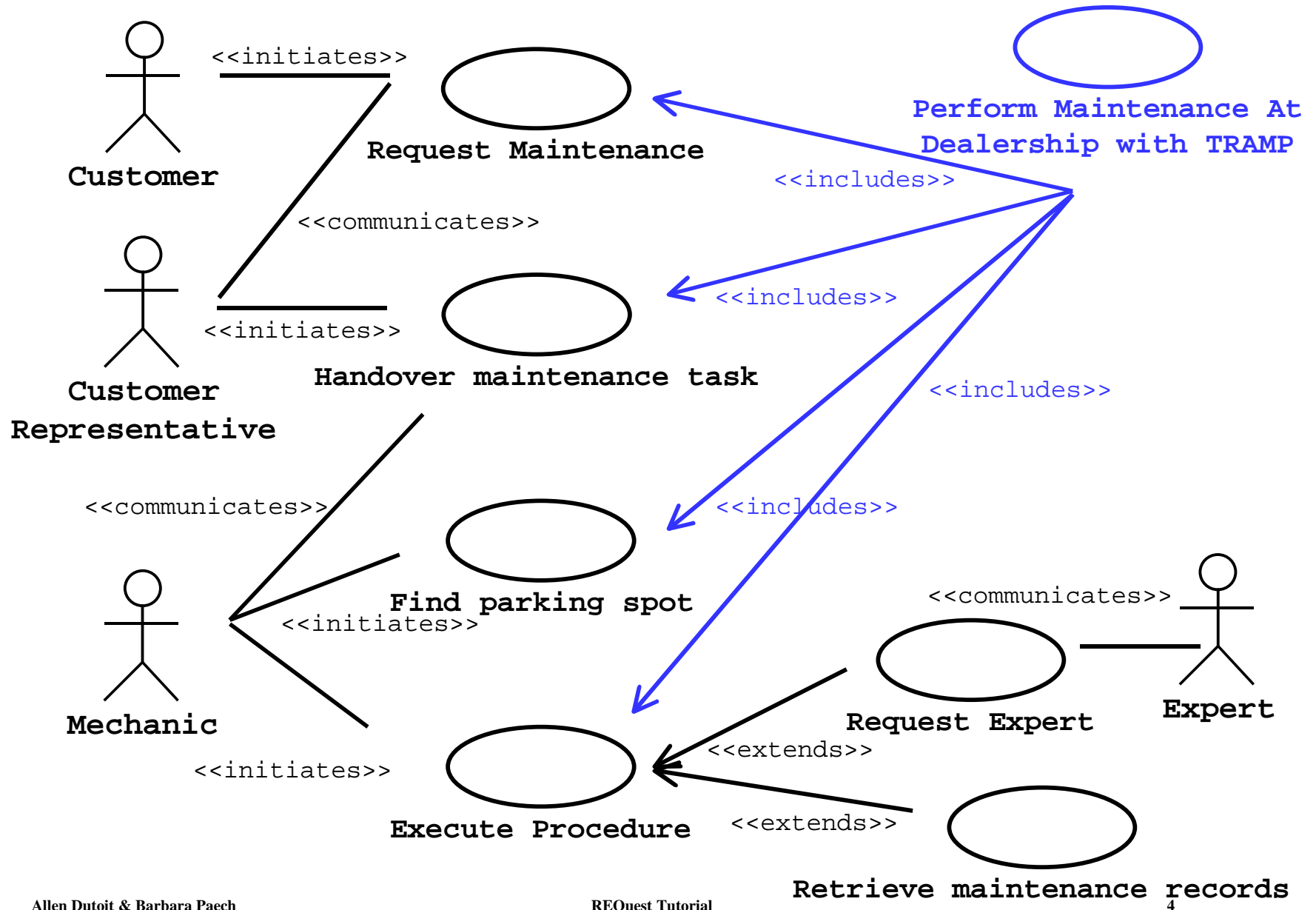
RAD due Nov. 26

- ◆ **Problem statement**
 - w **Actors**
 - w **User tasks**
 - w **Domain constraints**
 - w **Scenarios**
 - ◆ **Specification**
 - w **Use Cases**
 - w **Services**
 - w **Global functional constraints**
 - w **Quality constraints**
 - ◆ **Analysis**
 - w **Sequence diagram for each use case**
 - w **Analysis object model**
-
- Diagram illustrating the distribution of tasks over three weeks:
- Last week
 - ◆ **Problem statement**
 - w **Actors**
 - w **User tasks**
 - w **Domain constraints**
 - w **Scenarios**
 - This week
 - ◆ **Specification**
 - w **Use Cases**
 - w **Services**
 - w **Global functional constraints**
 - w **Quality constraints**
 - Next week
 - ◆ **Analysis**
 - w **Sequence diagram for each use case**
 - w **Analysis object model**

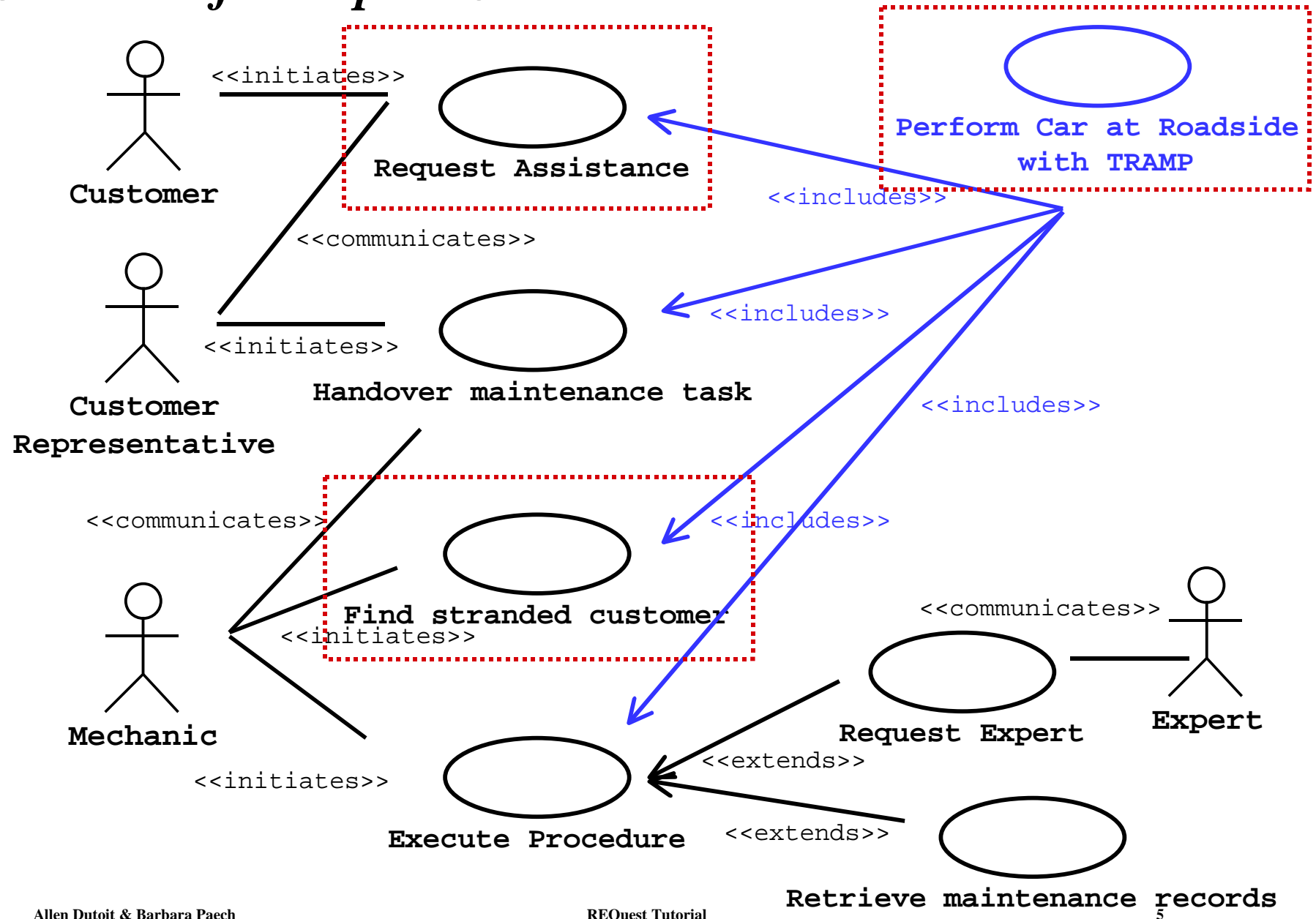
User tasks & Use cases



Use cases for Perform Maintenance at Dealership



Use cases for Repair Car at Roadside



Team assignments

- ◆ Architecture
 - w **Repair car at road side using TRAMP**
 - w **Perform maintenance at dealership using TRAMP**
 - w **Analysis Object Model**
- ◆ Application
 - w **Execute procedure**
- ◆ Context
 - w **Find parking spot**
 - w **Find stranded customer**
- ◆ Network
 - w **Request expert**
 - w **Retrieve maintenance records**
- ◆ Session
 - w **Request assistance/maintenance**
 - w **Handover maintenance task**

Team assignments (2)

- ◆ GSE
 - w **Has its own problem statement/use cases**
- ◆ Testing
 - w **Review use cases for testability**
 - w **Nonfunctional requirements**
- ◆ UI
 - w **2D mockups for each use case**
- ◆ Wearable
 - w **Visionary 3D mockup of wearable and associated devices**
- ◆ Documentation
 - w **Integration of final RAD, including diagrams**

Team assignments (3)

- ◆ All teams are responsible for their own sequence diagrams (more on this next week)
- ◆ All teams are responsible for identifying objects in the analysis model from their use cases
- ◆ Some teams have technology scanning tasks in addition to RAD tasks (more on this from your coach)

Tool access

- ◆ URL on the home page
- ◆ Your login name is the same as your MacOS X and sunhalle login name (e.g., “dutoit”)
- ◆ Your initial password is your login name + “99” (e.g., “dutoit99”)
- ◆ To change your password:
 - w **Login**
 - w **Select a system (e.g., “TRAMP”),**
 - w **Click on [Preferences] in the blue bar**
 - w **Type your password twice**
 - w **Click “Save Preferences”**

Final notes

- ◆ Your requirements tasks go beyond the scope of your subsystem.
- ◆ You are specifying an ideal system
- ◆ The requirements will be prioritized during the next phases and only a subset of them will be implemented.