



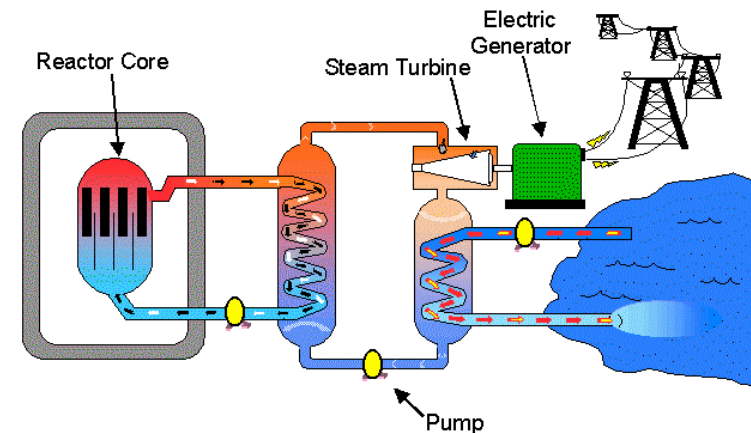
Software Architecture in Practice

Description exercise

Requirements

Describe the TS-05 architecture from the three viewpoints

- Module view
 - “Package diagram” and class diagram
- C&C view
 - Components and connectors configuration and sequence diagram
- Allocation view
 - Deployment diagram





Requirements

[The present TS-05 has only one sensor and one monitor. Think actual deployment:

- 100-1000 sensors in reactor
- 10-50 monitors
 - de-central temperature surveillance
 - control room overall visualization
 - etc.

]



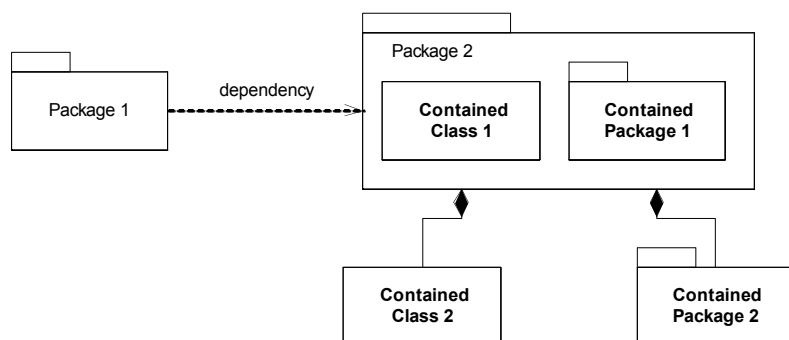
Exercise 1

Describe the TS-05 architecture from the module viewpoint

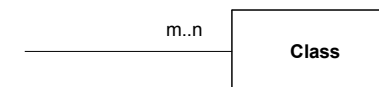
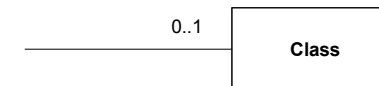
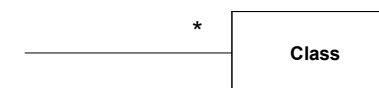
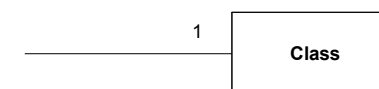
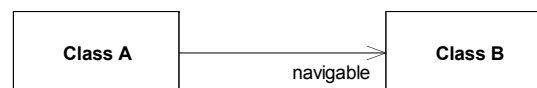
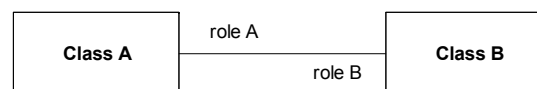
- Create a **package diagram** showing major Java packages and dependencies
- Create one or more **class diagrams** showing the detailed module structure of TS-05

Basic Module Elements (1)

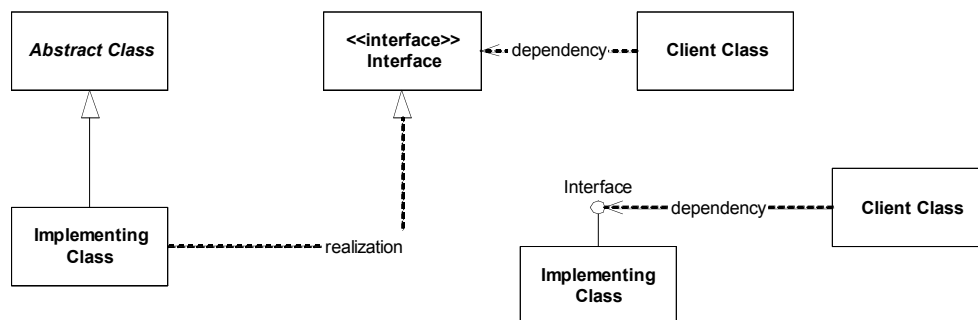
Packages



Associations



Interfaces





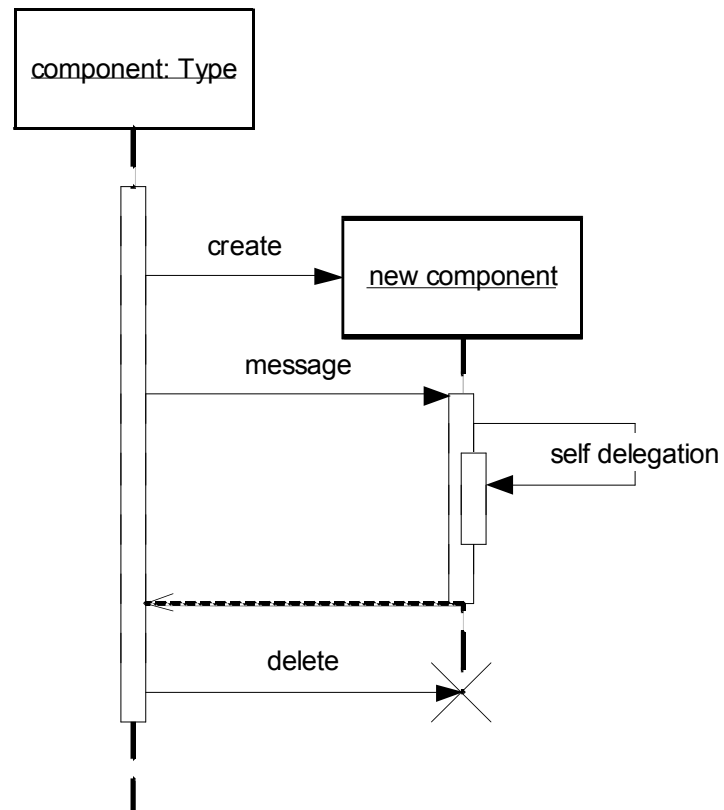
Exercise 2

Describe the TS-05 architecture from the component and connector viewpoint

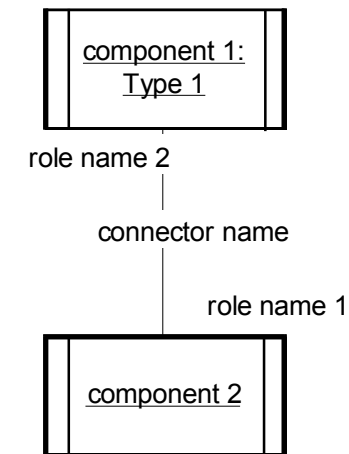
- Create an **object diagram** showing the main components and connectors of TS-05
- Create one or more **sequence diagrams** showing the interaction among components

Basic C&C Elements

Sequence Diagrams



Active Objects



Exercise 3



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Describe the TS-05 architecture from the allocation viewpoint

- Create a deployment diagram showing a possible deployment of TS-05

Basic Allocation Elements

