

Instructional Objectives for Interaction Diagrams

The student should be able to do the following after completing the interaction diagram portion of the text, lecture, and homework:

Sequence Diagrams

1. Describe the following terms related to sequence diagrams:
 - Objects
 - Focus of Control
 - Timeline

Collaboration Diagrams

2. Describe the following terms related to collaboration diagrams:
 - Objects
 - Links
 - Sequence Number

Messages

3. Describe and draw the following message types on either form of interaction diagrams
 - Create
 - Destroy
 - Call
 - Return
 - Send
4. Derive of a sequence diagram from a collaboration diagram.
5. Derive of a collaboration diagram from a sequence diagram.
6. Derive a sequence diagram from a scenario.
7. Derive an object diagram from a collaboration diagram.
8. Fortify a statechart diagram based upon either a sequence diagram or collaboration diagram.
9. Fortify a class diagram based upon either a sequence diagram or collaboration diagram.
10. Choose, and justify choice, between known dynamic models (statechart, activity, use case, interaction diagram) to model the described context (system, class, use case).
11. Given two, slightly different, interaction diagrams, describe any subtle behavioral differences indicated by the diagrams.