

Bruegge 99, Analysis, Chapter 5

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Quiz No. 4 – Answer Key

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NOTE: For this quiz, you can use all your notes and handouts.

1. Create one use case from your STARS subsystem, specifying each of its six components (not the diagram). (4 points)

This would depend on the use case that was selected; the important thing was specifying the following components for it:

- Use case name: Name given to the use case.
- Participating actor: List of actors that interact with the use case.
- Entry condition: Condition that initiates the use case.
- Flow of events: Detailed sequence of events.
- Exit condition: Condition that indicates that the function has been completed.
- Special requirements: Special requirements, such as performance issued, compatibility, and constraints, for example.

2. Use Abbott's heuristics for mapping parts of speech to model components. Find modeling components for at least four different types of speech. (3 points)

Abbott's heuristics can be found in Chapter 5, page 140. The idea was to map parts of speech from the use case above to model components such as objects, classes, operations, inheritance, aggregation, constraints and attributes.

3. Sketch the sequence diagram for the use case (3 points).

This also depended on the use case selected. The important thing is that it represents the objects that participate in the use case, where the leftmost column is the actor who initiates the case, the other columns are the other objects involved, and horizontal arrows across columns represent messages between the objects. Time is represented from top to bottom.

Bonus: Do the object model from the components found in Question 2 (3 points). It only counts if you do the three mandatory questions.

The bonus question simply consisted of taking the objects found in question 2 and organizing them into an object model.