

SWEN 223: Software Engineering Analysis

Assignment 5

Submit by 29/05/2017

1 Documenting Collaborative Behaviour

In previous assignments you developed the functionality and structural model for the “BUNDLE’nBANK” supermarket.

1.1 Identify Collaborative Behaviour

Some concepts of your conceptual analysis model will engage in collaborative behaviour. A number of objects will exchange some messages in order to complete an overall goal. Examples of such collaborations are use cases or CRC scenarios. For the purpose of this assignment pick one of these use cases or some other interesting interaction behaviour. In any event, your example should allow a broad spectrum of sequence diagram features to be exploited in a meaningful way.

1.2 Create a Sequence Diagram

Draw a sequence diagram showing the objects and the messages they exchange for the collaboration you have chosen above. Make sure that you do not just describe one behaviour trace but a behaviour scheme, i.e. include at least a conditional. Try to use further sequence diagram features, such as object creation/destruction, message parameters, use of returned results, asynchronous messages, loops, interaction occurrences.

1.3 Submission

Submit your sequence diagram via the electronic submission system. You may accompany it with extra documentation (in a .txt file or as part of the diagram) elaborating on assumptions made, explanations as to how the tool you have used may have been limiting you, etc.

Note: Allowed submission formats for diagrams are PDF documents (.pdf), image files (.png, .gif), or Postscript document (.ps). For accompanying elaborations, please use a plain .txt file. Other formats cannot be considered and will unfortunately have to be counted as non-submissions.