

ESOF 422 Homework 4

Instructions:

Work with your partner on this homework.

Make sure your printout is stapled together and all names appear in the front page.

Hand in copies (printouts) of all diagrams.

Your homework is worth 20 points.

Due: April 2 (Monday) during class. –No exceptions so plan accordingly.

Question 1 (10 pts)

Create the RBML Structural Pattern Specification diagrams for the State pattern and for the Iterator patterns. For this exercise you may use any tool (except hand drawn). Then answer the following questions for each of your two RBML diagrams:

- Draw one example of a realization of your RBML meta-model. You need show your realization is compliant to the SPS algorithm.
- Draw an example of a *near-instance*. A *near-instance* violates the metamodel in some form.

Question 2 (10 pts)

- Go to the Eclipse web site and download Eclipse (if you do not already have it). Install the latest version.
- Go to the Help menu, and click on Install new software. Then look for EMF and add it to your Eclipse package. Some packages may already include EMF, so this may not be needed.
- Go through the first 4 sections of the following tutorial :

<http://www.vogella.com/tutorials/EclipseEMF/article.html#models-and-eclipse-emf>

- Now create your own model for the following diagram and generate Java code for it:

