

CSSE 490 – Advanced Topics: Model-Based Software Engineering

Case Study 2

Objective

To examine Model-Driven Systems Development in light of existing software development approaches and get a sense of how a large company engages the techniques in their development environments.

Due Date

1:35 p.m., Thursday, Week 7

Tasks

1. Read the paper entitled, “Model-driven systems development” by Laurent Balmelli et al., and consider the implications of Model-Driven Systems Development on modern software organizations.
2. Write a paragraph summarizing the major thrusts of the paper.
3. Describe what the authors mean by requirement driven systems development methods.
4. Outline how the Rational Unified Process Architecture Framework serves as a basis for MDSysD (a list of bullets with a short description each). How does RUP environment support modeling languages?
5. What is the authors’ view of SysML and how it supports MDSysD?
6. What do the authors say about the use of transformation methods? Are they effective? What is their metamodel like?
7. Be prepared to lead and participate in a discussion on these on Tuesday in class.

Submitting Your Work

Please submit your answers single document in class”. Please submit the file with a cover page containing your Name, Assignment Title, and Date.