
MEIC - Software Engineering – 2014/15 - 7th Practical class
Model-Driven Engineering: Model Simulation

Working in pairs, follow the following steps:

1. Learn about simulation capabilities of Enterprise Architect in http://www.sparxsystems.com/enterprise_architect_user_guide/9.2/model_simulation/model_simulation.html
2. Download (if you haven't already) the last trial version of Enterprise Architect from <http://www.sparxsystems.com/products/ea/trial.html>
3. Download and unzip the model simulation example available in (after the prompt "Download attachments"):
<http://architectuml.com/white-papers/692-state-machine-simulation-in-enterprise-architect>
4. Open the "State Machine Clock Example.eap" (open Enterprise Architect in Ultimate mode).
5. Read the file "State Machine Simulation.pdf" and follow the steps described for running a simulation.
6. Implement small changes to the model and rerun the simulation to check the changes.
 - a) Make sure 2 digits are always displayed for hours and seconds.
 - b) Introduce buttons to stop and resume the clock.
 - c) Use separate fields for hours, minutes, seconds, and AM/PM (with seconds always visible).
 - d) Implement the first mode (set/hide seconds), by manipulating the Show property of the GUI element that displays seconds.
7. Write a small report, and submit through Moodle until the next class, explaining:
 - how you implemented each of the requested changes;
 - the difficulties you faced and the mistakes you did in implementing the changes;
 - what you learned about the model simulation capabilities of Enterprise Architect (you may refer to the items described in "What you will learn" in the above referenced PDF);
 - your opinion about the strengths and weaknesses of the model simulation capabilities of Enterprise Architect.
 - the time spent by each of the group members on doing this task.

Notes:

- This work will count 0.25 points.