Instructions for the Change Pattern Modeling Experiment

Preparation Phase

- ✓ Students need to have Java 6 installed on their laptops
- ✓ The following link can be used to test whether Java is installed in the correct version http://www.java.com/en/download/installed.jsp
- ✓ Adobe Flash has to be installed for <u>Microsoft Internet Explorer</u> in order to be able to view the tutorial (IE's rendering engine is used for displaying the tutorial).
- Check and Install Flash: http://www.adobe.com/software/flash/about/
 ✓ Windows OS (the software is only running on windows pcs)
- ✓ Internet Access during the experiment!
- ✓ Make copies of the task descriptions for each student
- ✓ <u>Download</u> the modeler from: <u>http://tinyurl.com/6b4rwtr</u> and go through the entire experiment by yourself in order to test the procedure

Conducting the Experiment

- ✓ Let the students install the modeler: <u>Download</u> modeler from:
- ✓ http://tinyurl.com/6b4rwtr
- ✓ Un-zip the file
- ✓ Provide the students with the task descriptions of the modeling task. Half of the students will use change pattern for process modeling, the other half plain BPMN.
- ✓ Students start the modeler by clicking "cheetah.exe"
- ✓ Students are asked to enter the <u>4 digit code</u> which they can find in the <u>footnote of the task</u> descriptions
- ✓ Students answer demographic questions
- ✓ Students participate in BPMN/Change Pattern tutorial

If students cannot see the video on the left perform the following steps to install flash

- o start Microsoft Internet Explorer
- o go to http://www.adobe.com/software/flash/about
- o if not installed Flash should install now
- o go back to the tutorial
- o click into the area where the video should be shown (left half of the window)
- o press F5 the video should start playing
- ✓ Students perform modeling task; At the beginning of the modeling task students are presented with a modeling id which they should <u>write on the sheet</u> with the modeling task description (<u>box on the top right</u>)
- ✓ When students have finished the modeling task they can click <u>"finish modeling"</u> on the <u>top left</u> to move to the next step of the experiment
- ✓ Students perform change task; At the beginning of the change task students are presented with a modeling id which they should <u>write on the sheet</u> with the modeling task description (<u>box on the top right</u>)
- ✓ When students have finished the change modeling task they can click "finish modeling" to move to the next step of the experiment
- ✓ Collect the sheets with the modeling task descriptions

- ✓ Students have to fill out the questionnaire on cognitive load
 ✓ The collected data is automatically transferred to our database server.