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PEOPLE, KNOWLEDGE, DEVICES,
AND INFORMATION ARE
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SOCIETY, LIFE AND BUSINESS.

Master’s thesis 30p: An evaluation of Modeling Environments from a user and usage perspective

Description:
Different UML modeling environments (tools) may have very different characteristics such as behavior, performance and ease of use. Therefore it can be very tempting to change to another environment to get improvements in development speed and quality. However these advantages have to be compared to the effort of migrating existing large models. Before making such a decision we would like to make a systematic investigation on the effects of such a switch from one environment to another.

The thesis work will contain the following steps:
Invent existing measurement methods for tools, e.g.
   ISO/IEC 9126 – a general purpose quality model
   ISO/IEC 14598 – software product evaluation processes
but others should be evaluated as well, as well as investigate any earlier applicable work in the area.
Choose a method to be used.
Develop use cases for the normal user and for various sizes and types of models.
Apply method on use cases for at least two different modeling environments (RSA-RTE and Papyrus).

We think that this thesis would be best suited for two persons.

Qualifications:
Good knowledge of UML and UML tools.

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