

Questionnaire to evaluate usefulness and cognitive effort of the DSML4PTM

Please answer to the below sections as follows:

- section 1 and 2 **before** the introduction of the DSML4PTM,
- section 3, 4 and 5 **after** the introduction of the DSML4PTM.

Section 1: Questions on your general background

1.1 Select your study degree	<input type="checkbox"/> Bachelor degree <input checked="" type="checkbox"/> Master degree <input type="checkbox"/> PhD
1.2 What's the field of your study degree?	Business Information Systems and Computer Science
1.3 Have you ever dealt with any modeling languages? (e.g. UML, BPMN, CMMN, DMN etc)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
1.4 Have you ever modelled any flow diagram?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
1.5 Have you ever programmed any software?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
1.6 Select your current level in software programming	<input type="checkbox"/> Enough <input type="checkbox"/> Sufficient <input checked="" type="checkbox"/> Little <input type="checkbox"/> Not at all

Section 2: Questions on modeling background

2.1 Have you ever modelled Business Processes?	<input checked="" type="checkbox"/> Yes, also for commercial purposes <input type="checkbox"/> Yes, only for didactic purposes <input type="checkbox"/> No <input type="checkbox"/> Not sure
2.2 Have you ever modelled Case Management?	<input type="checkbox"/> Yes, also for commercial purposes <input checked="" type="checkbox"/> Yes, only for didactic purposes <input type="checkbox"/> No <input type="checkbox"/> Not sure

2.2 Have you ever modelled DecisionLlogic (e.g. decision tables, business rules, decision model, Q-Charts?)	<input type="checkbox"/> Yes, also for commercial purposes <input checked="" type="checkbox"/> Yes, only for didactic/research purposes <input type="checkbox"/> No <input type="checkbox"/> Not sure
2.3 In which language have you modelled business processes?	<input checked="" type="checkbox"/> BPMN <input checked="" type="checkbox"/> UML Activity Diagram <input type="checkbox"/> None <input checked="" type="checkbox"/> Others (please specify) EPC.....
2.4 In which language have you modelled case managment?	<input checked="" type="checkbox"/> CMMN <input type="checkbox"/> None <input type="checkbox"/> Others (please specify)
2.5 In which language have you modelled decision logic?	<input checked="" type="checkbox"/> DMN <input type="checkbox"/> SBVR <input type="checkbox"/> SPARQL Inferencing Notation <input type="checkbox"/> None <input type="checkbox"/> Others (please specify)
2.6 What modelling language did you hear of?	<input checked="" type="checkbox"/> BPMN <input checked="" type="checkbox"/> CMMN <input checked="" type="checkbox"/> BPEL <input checked="" type="checkbox"/> UML Activity Diagram <input checked="" type="checkbox"/> EPC <input type="checkbox"/> YAWL <input checked="" type="checkbox"/> DMN <input type="checkbox"/> SBVR <input type="checkbox"/> SPARQL Inferencing Notation <input type="checkbox"/> None <input checked="" type="checkbox"/> Others (please specify) All UML diagram types, ERD
2.7 Which modelling language would you be able to use?	<input checked="" type="checkbox"/> BPMN <input checked="" type="checkbox"/> CMMN <input type="checkbox"/> BPEL <input checked="" type="checkbox"/> UML Activity Diagram <input checked="" type="checkbox"/> EPC <input type="checkbox"/> YAWL <input type="checkbox"/> DMN <input type="checkbox"/> SBVR <input type="checkbox"/> SPARQL Inferencing Notation <input type="checkbox"/> None <input checked="" type="checkbox"/> Others (please specify) All UML diagram types, ERD

2.8 Have you ever attended courses on how to model business processes/case management/decision logic?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.9 Have you ever heard of domain-specific modelling approaches?	<input checked="" type="checkbox"/> Yes, (please specify) I know what they are, what their purpose is and have worked/know of languages in healthcare, computer science and business domain. <input type="checkbox"/> No
3.0 Do you know the benefits of a domain-specific modeling language?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure

Section 3: Evaluation on the usefulness of the DML4PTM

<p>3.1 Do you see the usefulness of the DSML4PTM?</p>	<p><input checked="" type="checkbox"/> Yes, (please specify why and list at least 3 aspects that makes it useful)</p> <ul style="list-style-type: none"> - Domain-specific language for a domain, which is not yet properly supported and a lot of improvement can be achieved as such - Combination of well-known standards within 1 model - Basis for further development of a language that can be reused for several processes/scenarios in healthcare <p><input type="checkbox"/> No, (please specify why)</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
<p>3.2 Do you see room for improvement in the DSML4PTM?or missing aspects?</p>	<p><input checked="" type="checkbox"/> Yes, (Please specify aspects to be improved)</p> <ul style="list-style-type: none"> - Language is currently very focused on 1 specific scenario and not applicable for others - Semantical/syntactical correctness of the language needs to be improved - Evaluation of usefulness needs to be held with users from the domain <p><input type="checkbox"/> No</p>
<p>3.3 What's your impression on the proposed language?</p>	<p>See above points and:</p> <ul style="list-style-type: none"> - A lot of domain-specific concepts added, that are in my opinion well-designed and should be easily recognizable by people from the domain

Section 4: Evaluation on the cognitive effort of the DSML4PTM

[illegible]

	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p><input checked="" type="checkbox"/> No</p>
4.2 Did you have difficulties to adapt the proposed scenario?	<p><input checked="" type="checkbox"/> Yes, (please specify the difficulties you encountered)</p> <p>Knowing which concept has to be used in which situation but in my opinion this is not a problem of the language but a general modelling problem, which requires experience of the modeler. Also probably there are different possibilities to model a certain solution (all of which can be correct)</p> <p><input type="checkbox"/> No</p>
4.3 Do you think the applicability of the language should improve?	<p><input checked="" type="checkbox"/> Yes (please specify the aspects to improve in terms of applicability)</p> <p>Enhancing language which concepts, that can also cover different processes than just the transferal of patients from hospital to care institutions.</p> <p><input type="checkbox"/> No</p>
4.4 What is your impressions on the ease-of-use of the modelling method (language and its applicability)?	<p>I think in general, the ease of use is given as well known modelling languages are reused and not something completely new is invented. What might be difficult is, that several different languages are included and as such, all these have to be known and how these can be combined.</p>

Section 5: Evaluation on the focus group

5.1 How was the overall focus group experience?	<ul style="list-style-type: none">- Well prepared- Session was structured in different blocks, that helped to learn the theory of the language but also allowed to apply it- Useful exercise, which also allowed to compare how people with different backgrounds/experience in modelling solve/approach it- People in the focus group with different backgrounds which helped to evaluate the language in terms of semantical / syntactical correctness, usefulness for the domain etc.- Maybe a little too complex for people with limited knowledge in modelling (then probably a longer session would be needed)
5.2 Do you think the session should improve?	<div><input type="checkbox"/> Yes, (please describe aspects to improve) <input checked="" type="checkbox"/> No</div>
5.3. Which target group would you recommend for the next evaluation session?	Practitioners / end-users from the domain