



CHARACTERIZATION QUESTIONNAIRE

Participant:

Participant ID:

1. What is your level of education?

- | | |
|---|---|
| <input type="checkbox"/> Graduating | <input type="checkbox"/> Master's Student |
| <input type="checkbox"/> Graduate | <input type="checkbox"/> Master's Degree |
| <input type="checkbox"/> PostGraduate Student
(Specialization) | <input type="checkbox"/> Ph.D. Candidate |
| <input type="checkbox"/> Postgraduate (Specialization) | <input type="checkbox"/> Ph.D. |

2. In which sector do you operate?

- ☐ Academia (teaching)
☐ Industry (business)
☐ Academia and Industry (teaching and business)
☐ Student

3. What is the name of the company and/or university you work/study?

4. How long do you have experience in the area of Software Engineering?

- ☐ Less than 2 years
☐ Between 2 and 4 years
☐ Between 5 and 7 years
☐ Between 8 and 10 years
☐ Over 10 years

5. What is your experience with the Software Product Line (SPL) and Variability Management approach?

- ☐ I've never heard of SPL.
☐ I've read, superficially, something about SPL.
☐ My LP experience is basic.
I know the concepts of SPL development cycle and its activities (domain engineering and application engineering). However, I have no experience with variability management.
☐ My experience with SPL is moderate.
I know the concepts of the previous option, and regarding variability management, I know the concept of variation points, variants and their relationships, in addition to the concepts of variability resolution and resolution times (design time, link time, runtime , between others).
☐ My SPL experience is advanced.
In addition to the concepts of the previous option, I know some SPL development processes (FODA, PLUS, PuLSE, etc.), as well as resolution models; existing approaches to variability management, and variability representation (using UML, feature models, among others).



6. Quanto tempo possui de experiência na área em Linha de Produto de Software?

- ☐ Less than 2 years
- ☐ Between 2 and 4 years
- ☐ Between 5 and 7 years
- ☐ Between 8 and 10 years
- ☐ Over 10 years

7. What is your experience with the Stereotype-based Management of Variability (SMarty) approach?

- ☐ I've never heard of SMarty.
- ☐ I've read, superficially, something about SMarty
- ☐ My experience with SMarty is basic. I know some main concepts. But, I didn't model any diagrams.
- ☐ My experience with SMarty is moderate. I can model some of the daigrams.
- ☐ My experience with SMarty is advanced. I can model all diagrams with support for the SMarty approach. In addition to the concepts of the previous option, I know some SPL development processes (FODA, PLUS, PuLSE, etc.), as well as resolution models; existing approaches to variability management, and variability representation (using UML, feature models, among others).

8. SMartyPerspective is composed of 5 roles from the Domain Engineering activity in Software Product Line. Based on the role description, check ALL the options that you think your knowledge of SPL would allow you to exercise within an organization:

- ☐ **Product Manager:** responsible for planning and evolving the portfolio in accordance with the organization's objectives;
- ☐ **Domain Requirements Engineer:** Analyzes and identifies common and variable requirements for the core asset;
- ☐ **Domain Architect:** validates that the reusable asset designs meet the LPS architecture and determines the configuration mechanisms that will be used in the applications.
- ☐ **Domain Developer:** implements the components that will integrate the core asset, that is, there is no implementation of a working application, only weakly coupled components; and
- ☐ **Domain Asset Manager:** maintains the configuration and valid version of domain assets and their traceability to be used at all stages of development.

- ☐ Product manager
- ☐ Domain Requirements Engineer
- ☐ Domain Architect
- ☐ Domain Developer
- ☐ Domain Asset Manager

9. What is your level of experience with UML notation in relation to the features diagram??

- ☐ I've read, superficially, something about it.
- ☐ I have never modeled software using the features diagram.
- ☐ My experience with the features diagram is basic.
- ☐ My experience with the features diagram is moderate.
- ☐ My experience with the features diagram is advanced.



10. What is your level of experience with UML notation in relation to the Use Case diagram??

- ☐ I've read, superficially, something about it.
- ☐ I have never modeled software using the use case diagram.
- ☐ My experience with the use case diagram is basic.
- ☐ My experience with the use case diagram is moderate.
- ☐ My experience with the use case diagram is advanced.

11. What is your level of experience with UML notation in relation to the Class diagram?

- ☐ I've read, superficially, something about it.
- ☐ I have never modeled software using the class diagram.
- ☐ My experience with the class diagram is basic.
- ☐ My experience with the class diagram is moderate.
- ☐ My experience with the class diagram is advanced.

12. What is your level of experience with UML notation in relation to the Component diagram?

- ☐ I've read, superficially, something about it.
- ☐ I have never modeled software using the component diagram.
- ☐ My experience with the component diagram is basic.
- ☐ My experience with the component diagram is moderate.
- ☐ My experience with the component diagram is advanced.

13. What is your level of experience with UML notation in relation to the Sequence diagram?

- ☐ I've read, superficially, something about it.
- ☐ I have never modeled software using the Sequence diagram.
- ☐ My experience with the Sequence diagram is basic.
- ☐ My experience with the Sequence diagram is moderate.
- ☐ My experience with the Sequence diagram is advanced.

14. What is your experience regarding Software Inspection techniques?

- ☐ I've never heard about Software Inspection.
- ☐ I've read, superficially, something about Software Inspection.
- ☐ My experience with Software Inspection is basic.

I know the following concepts regarding the software inspection scenario: quality control and software review.

☐ My experience with Software Inspection is moderate. I know the concepts of the previous option and I've read about some defect detection and removal process.

- ☐ My experience with Software Inspection is advanced.

I know the concepts of the previous option, plus some existing reading techniques used together in software inspection, such as: Ad hoc reading techniques, checklist-based reading techniques, perspective-based reading techniques, defects, etc.

Participant Signature

Date