

# Software Development Experience Characterization

Thank you to participate of this study. All information you provide by fulfilling this questionnaire will remain anonymous. We won't your personal information on the analyses. Since we keep the data anonymous and we need to match your answers in the questionnaire to your answers in the experiment, you have to use a code word. It is imperative that you know this code word in the experiment.

\* Required

1. Here, we explain how you generate this code word, which is also explained in the experiment. 1. First letter of your last name. 2. Second letter of your first name. 3. Third letter of your mother's first name. 4. Third letter of your father's first name. 5. Fourth letter of the month of your birthdate. 6. First letter of name of your elementary school. \*

## Personal Information

This information will help us to analyze the results of the experiment according to the group characterization.

2. Age \*

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3. Gender \*

Mark only one oval.

- ☐ Male  
☐ Female

4. Higher Academic Degree \*

Mark only one oval.

- ☐ Bachelor  
☐ Specialist  
☐ Master  
☐ Ph.D

5. Course of Study \*

Mark only one oval.

- ☐ Computer Science  
☐ Information Systems  
☐ Computer Engineering  
☐ Other: .....

## Software Development Experience

6. How many courses were you enrolled in which you had to develop a software or part of one?

7. Since when are you working in a company or at the university on software projects? \*

Answer it in YYYY-MM or YYYY formats.

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8. How many software development projects did you participate in a company or at the university? \*

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9. What is your previous experience with software development in practice? \*

Mark only one oval per row.

	Very inexperienced	Inexperienced	Median	Experienced	Very Experienced
Domain representation through Feature Models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Applying Feature Models on Software Development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reviewing Feature Models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software inspections	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Software Refactoring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. How experienced are you with the object-oriented programming? \*

Mark only one oval.

- ☐ Very inexperienced
- ☐ Inexperienced
- ☐ Median
- ☐ Experienced
- ☐ Very experienced

11. How experienced are you with the following programming languages? \*

Mark only one oval per row.

	Very inexperienced	Inexperienced	Median	Experienced	Very experienced
C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Java	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C#	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Python	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12. Have you ever worked on any software project with the presence of variability implemented with conditional compilation (#ifdef)? \*

Mark only one oval.

- ☐ Yes, in academy
- ☐ Yes, in industry
- ☐ Yes, in both academy and industry
- ☐ No

## Experience in Application Domains

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This section will be used to understand how familiar you are with domains that can be used as examples or exercises during training.

13. How familiar are you with the following domains? \*

Mark only one oval per row.

	I'm not familiar with this domain. I've never worked on it.	I've used this a few times, but I'm not an expert.	I'm very familiar with this domain. I would feel comfortable working on it.
E-commerce	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Instant Messenger	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Event Manager	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Model Editor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Game	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compression Lib	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data Base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Elevator Motion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Office Information System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Graph Editor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Software Smells

Finally, we would like to know about your expertise with software smells and variability-aware smells.

14. Have you ever heard about software smells? \*

Mark only one oval.

- ☐ Yes
- ☐ No      *Stop filling out this form.*

## Software Smells and Variability-Aware Smells

15. Which of the following code smells do you know? \*

*Check all that apply.*

- ☐ God Class
- ☐ Large Class
- ☐ Duplicated Code
- ☐ Long Method
- ☐ Long Parameter List
- ☐ Shotgun Surgery
- ☐ Feature Envy
- ☐ None
- ☐ Other: .....

16. Which of the following variability-aware smells have you ever heard about? \*

*Check all that apply.*

- ☐ Inter-Feature Code Clones
- ☐ Long Refinement Chain
- ☐ Annotation Bundle
- ☐ Latently Unused Parameter
- ☐ Large Feature
- ☐ Switch Statements With Optional Cases
- ☐ None
- ☐ Other: .....