

# Study of Software Architecture - Pre-questionnaire

WE WILL ADJUST THIS TEXT ONCE WE APPLY FOR AND RECEIVE ETHICS APPROVAL FOR THIS STUDY AND BEFORE STARTING RECRUITMENT.

Thank you for considering participating in our research.

Our study aims to better understand the dynamics of collaboration to design software architectures.

The survey is being conducted by

Ingrid Nunes  
Universidade Federal do Rio Grande do Sul (UFRGS), Brazil

and

Christoph Treude  
University of Adelaide, Australia

and

Fabio Calefato  
University of Bari, Italy

**Participation:** The study is composed of three phases. In the first phase, you are required to fill a pre-questionnaire in. If you consent to participate in the study, you will be asked to answer a set of questions of this pre-questionnaire. In the second phase, you will be asked to perform a collaborative task associated with software architecture. You will be required to attend a scheduled appointment in one of the three universities of the researchers involved in the study to perform this task. In the third phase, you will be required to answer a post-questionnaire. The second and third phases together take 2h hours to be completed.

**Risks:** There are no known risks associated with participating in this study.

**Confidentiality and anonymity:** Only the researchers listed above will normally have access to the underlying data. All other access to the study information, in the form of a publication for example, will have all personal data removed. Authorities in countries where Google operates, including the US, may possibly seek access to data through legal challenges, although this is unlikely.

**Voluntary Participation:** You have the right to withdraw from this study. To withdraw, simply exit the website before completing the survey. Based on the answers of the pre-questionnaire, you will be invited to participate in the second and third phases of the study, if the eligibility criteria are satisfied. You may decline this invitation.

Data conservation: data will be conserved after project completion for 5 years.

If you have any questions about the study, you may contact the researchers at [ingridnunes@inf.ufrgs.br](mailto:ingridnunes@inf.ufrgs.br)

**\*Required**

1. Email address \*

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2. Please indicate whether or not you consent to participate: \*

*Mark only one oval.*

☐ I consent to participate in the study. *Skip to question 3*

☐ I do not consent, and hence prefer not to participate.

### Personal Characteristics

3. Full name: \*

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4. Age: \*

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5. Gender: \*

*Mark only one oval.*

☐ Female

☐ Male

☐ Prefer not to say

☐ Other: 

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## 6. Nationality: \*

*Mark only one oval.*

- ☐ Australian
- ☐ Brazilian
- ☐ Italian
- ☐ Other: \_\_\_\_\_

## 7. Highest Education Level: \*

*Mark only one oval.*

- ☐ High school
- ☐ Bachelor in Computer Science or related courses (incomplete)
- ☐ Bachelor in Computer Science or related courses
- ☐ Master in Computer Science or related courses) (incomplete)
- ☐ Master in Computer Science or related courses)
- ☐ PhD in Computer Science or related courses (incomplete)
- ☐ PhD in Computer Science or related courses
- ☐ Other: \_\_\_\_\_

### Skills

## 8. Professional experience in software development: \*

*Tick all that apply.*

- ☐ I have worked as a software engineer (full stack, front-end, back-end)
- ☐ I have contributed to open source software projects
- ☐ I have worked as an intern in a software company
- ☐ I have participated in academic projects by developing software

Other: ☐ \_\_\_\_\_

## 9. Years of experience in software development: \*

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## 10. On a scale from 1 (low) to 10 (high), how do you estimate your experience in the following topics? \*

*Mark only one oval per row.*

	1	2	3	4	5	6	7	8	
Software development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	(
Web development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	(
Programming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	(
Software architecture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	(
Architectural patterns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	(
Modularity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	(
Design patterns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	(
Code smells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	(

## Personality Test

## 11. How Accurately Can You Describe Yourself? \*

Describe yourself as you generally are now, not as you wish to be in the future. Describe yourself as you honestly see yourself, in relation to other people you know of the same sex as you are, and roughly your same age. So that you can describe yourself in an honest manner, your responses will be kept in absolute confidence. Indicate for each statement whether it is 1. Very Inaccurate, 2. Moderately Inaccurate, 3. Neither Accurate Nor Inaccurate, 4. Moderately Accurate, or 5. Very Accurate as a description of you.

*Mark only one oval per row.*

	Very inaccurate	Moderately inaccurate	Neither accurate nor inaaccurate	Moderately accurate	Very accurate
Am the life of the party.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feel little concern for others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am always prepared.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Get stressed out easily.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have a rich vocabulary.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Don't talk a lot.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am interested in people.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Leave my belongings around.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am relaxed most of the time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have difficulty understanding abstract ideas.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feel comfortable around people.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insult people.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pay attention to details.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Worry about things.

Have a vivid  
imagination.

☐
☐
☐
☐
☐

Keep in the  
background.

☐
☐
☐
☐
☐

Sympathize with  
others' feelings.

☐
☐
☐
☐
☐

Make a mess of  
things.

☐
☐
☐
☐
☐

Seldom feel blue.

☐
☐
☐
☐
☐

Am not interested in  
abstract ideas.

☐
☐
☐
☐
☐

Start conversations.

☐
☐
☐
☐
☐

Am not interested in  
other people's  
problems.

☐
☐
☐
☐
☐

Get chores done  
right away.

☐
☐
☐
☐
☐

Am easily disturbed.

☐
☐
☐
☐
☐

Have excellent ideas.

☐
☐
☐
☐
☐

Have little to say.

☐
☐
☐
☐
☐

Have a soft heart.

☐
☐
☐
☐
☐

Often forget to put  
things back in their  
proper place.

☐
☐
☐
☐
☐

Get upset easily.

☐
☐
☐
☐
☐

Do not have a good  
imagination.

☐
☐
☐
☐
☐

Talk to a lot of  
different people at  
parties.

☐
☐
☐
☐
☐
☐
☐
☐
☐
☐

Am not really interested in others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Like order.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Change my mood a lot.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am quick to understand things.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Don't like to draw attention to myself.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Take time out for others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Shirk my duties.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Have frequent mood swings.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use difficult words.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Don't mind being the center of attention.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Feel others' emotions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Follow a schedule.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Get irritated easily.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spend time reflecting on things.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am quiet around strangers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Make people feel at ease.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am exacting in my work.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Often feel blue.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Am full of ideas.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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