An Architectural Technical Debt IndeX (ATDx) - Survey

Dear Participant,

Thank you for considering to participate in this study!

We are a group of researchers from the Vrije Universiteit Amsterdam (The Netherlands) and the Carnegie Mellon University Software Engineering Institute (USA). We seek your feedback on an architectural technical debt index (ATDx) we developed. ATDx provides data-driven information about a given project's architectural design choices which, while being suitable or even optimal when adopted, lower the maintainability and evolvability of the system in the long term, hindering future development activities, hence accumulating technical debt.

In this survey:

- you will be asked to answer 8 brief questions about ATDx, based on our analysis results of the OSS projects you contributed to
- your answers will only be stored and used in an anonymized form
- you will be done in 10 minutes

The target respondents for this questionnaire are contributors involved in open-source projects.

If you would like to receive the final research report just provide your email at the end of the survey.

Let's go to the first question!

*Required

Your experience in software development

How many years have you been developing software? *

2. How many open	source software projects have you contributed to in your career? *						
Mark only one ov	al.						
1							
Between 2 a	and 5						
Between 6 a	Between 6 and 10						
More than 1	More than 10						
Your familiarity with OSS projects	In the mail with the link to this survey, we shared our analysis of a set of OSS projects you contributed to. The following question is to understand your familiarity with such projects.						
3. On average, how	v familiar are you with the projects? *						
Mark only one ov	Mark only one oval.						
Extremely fa	amiliar (regular contributor, check in code often)						
Very familar	(occasional contributor)						
Moderately 1	familiar (have looked at its artifacts, read its code, can contribute easily)						
Slightly fam	Slightly familiar (use the OSS, but do not know the code structure)						
Not familiar	Not familiar						
	Answer the following questions by considering the analysis results of the OSS projects we shared with you.						
	As displayed in the diagrams, our index is composed of 6 types of architectural technical debt:						
ATDx in your projects	 Threading: issues related to the implementation of multiple execution threads Interface: issues related to the usage of Java interfaces Inheritance: issues related to the inheritance mechanisms between classes Complexity: issues related to complex code JVMS: issues related to the Java Virtual Machine Exception: issues related to the Java throwable class "Exception" and its subclasses 						
	SUDCIdSSeS						

-	r looking individually at each project: The radar-chart values reflect the project's irrent state of architectural debt *
М	ark only one oval.
	Strongly agree
	Agree
	Neutral
	Disagree
	Strongly Disagree
C	omments?
_	
	looking at all projects together. The radar charts reflect the differences in
	looking at all projects together: The radar charts reflect the differences in chitectural debt present in the projects *
ar	chitectural debt present in the projects *
ar	chitectural debt present in the projects * ark only one oval.
ar	chitectural debt present in the projects *
ar	chitectural debt present in the projects * ark only one oval.
ar	chitectural debt present in the projects * ark only one oval. Strongly agree
ar	chitectural debt present in the projects * ark only one oval. Strongly agree Agree

7.	Comments?
8.	The architectural debt types displayed in the radar-chart are a good representation of architectural debt *
	Mark only one oval.
	Strongly agree
	Agree
	Neutral
	Disagree
	Strongly Disagree
9.	Comments?

10.	Do you miss any a	architectural debt type? If so, which one(s)?			
11.	The results displa	yed in the radar charts inspire me to take action *			
	Mark only one ova	I.			
	Strongly agre	e			
	Agree				
	Neutral				
	Disagree				
	Strongly Disa	gree			
12.	Comments?				
13.	How would you use the radar-charts in your current practice?				
	bmit your swers	Thank you! Please, do not forget to click on the Submit button at the bottom of this page!			

14.	Do you have any final comments or suggestions?				
15.	Your e-mail address				
	Optional, we will use it only once for sending the results of our study				
This research is carried out jointly by the Vrije Universiteit Amsterdam (The Netherlands), and the Carnegie Mellon University Software Engineering Institute (USA).					
For any question or comment, do not hesitate to contact free to contact us at: r.verdecchia@vu.nl					

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