## Technical Debt Survey about TensorFlow

Thank you for your help by filling in this survey!

	ln t	his	surv	ey,	we	as	k:
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- 8 questions about yourself (demographics);
- 6 general questions about your experience with Technical Debt (TD);
- 4 questions about how you address TD in TensorFlow.

If you are not sure about what TD is, no worries!

We provide all necessary information before the questions.

All information used in the study will be anonymized and aggregated to hinder the identification of individuals.

\* Required

**Demographics** 

We would like to start by learning a little bit about you.

1. What roles do you play in your project? (mark all that apply)

Check all that apply.
Developer (incl. Software Engineer)
Tester (incl. Quality Assurance)
Team Lead
Scrum Master
Software Architect
Project Manager
Product Owner
Other:

2.	Among the roles you play, which one do you consider to be your main role? *
	Mark only one oval.
	Developer (incl. Software Engineer)
	Tester (incl. Quality Assurance)
	Team Lead
	Scrum Master
	Software Architect
	Project Manager
	Product Owner
	Other:
3.	How long have you been working on this project? *  Mark only one oval.  Less than 1 year
	1-2 years
	3-5 years
	More than 5 years
4.	Which country did you spend the most time in during your participation in this project?

How many commits did you contribute to the project? *
Mark only one oval.
Less than 10 commits
10-30 commits
30-50 commits
50-100 commits
100-200 commits
200-500 commits
more than 500 commits
What is your sex?
Mark only one oval.
Female
Male
I prefer not to answer
Other:
What is your advectional background (highest degree obtained)?
What is your educational background (highest degree obtained)?
Mark only one oval.
BSc
MSc
PhD
Other:

Technical Debt	If you never heard of technical debt, we assure you that you have dealt with it in the past. If you already know what it is or have heard of it before, we just want to set a baseline for the context of this survey.  We use the term technical debt to express the increased effort required for maintaining a system due to shortcuts taken during its development.  To INTRODUCE technical debt means to take such shortcuts in development.  To REPAY technical debt means to fix such shortcuts (e.g., by refactoring the code).  These definitions are used for the rest of this survey.
questionn  Mark only  Yes	

For what reasons did you commonly modify code in the project? (mark all that apply) \*

Check all that apply.

Bua	fixing
Dug	HAIHY

New feature

Refactoring

Other:

11.	How often do you introduce technical debt? *
	Mark only one oval.
	Always
	On a regular basis
	Sometimes, when it is absolutely essential
	Almost never
	Never
	I don't know
12.	For what reasons have you introduced technical debt? (mark all that apply) *
	Check all that apply.
	Deadline
	Inappropriate planning
	Lack of well-defined process
	Non-adoption of good practice
	Not effective project management
	Lack of qualified professionals that can manage techinical debt
	Lack of experience
	Outdated or incomplete documentation
	Lack of commitment to the project
	Team overload
	I am not aware that I introduce technical debt
	Other:

13.	How often o	do you repay your own technical debt? *						
	Mark only or	ne oval.						
	Always	gular basis						
		mes, when it is absolutely essential						
	Almost never							
	Never							
	I don't l	Know						
14.	For what rea	asons do you repay your own technical debt? *						
		In this section, we are eager to know how you manage different types of TD.						
		Specifically, we distinguish between five types of TD: - CODE DEBT refers to code that is poorly written, violating best coding practices or code rules;						
Tvr	oes of	<ul> <li>DEFECT DEBT refers to uncorrected known defects;</li> <li>DESIGN DEBT refers to technical shortcuts that are taken within design</li> </ul>						
	chnical	decisions;						
Debt		<ul> <li>DOCUMENTATION DEBT refers to insufficient, incomplete, or outdated documentation in any aspect of software development;</li> </ul>						
		- TEST DEBT refers to shortcuts taken in testing						
		Considering your experiences in the project, please answer the following questions.						

## 15. Do you recall \*\*noticing\*\* TD? Please respond per TD type \*

Mark only one oval per row.

	Definetely not	Probably not	I am not sure	Probably yes	Definetely yes
Code Debt					
Defect Debt					
Design Debt					
Documentation Debt					
Test Debt					

## 16. Do you recall \*\*introducing\*\* TD? Please respond per TD type \*

Mark only one oval per row.

	Definetely not	Probably not	I am not sure	Probably yes	Definetely yes
Code Debt					
Defect Debt					
Design Debt					
Documentation Debt					
Test Debt					

17. Do you recall **repaying** TD? Please respond per TD t	per TD type	respond pe	Please	TD?	**repaving**	vou recall	Do	17.
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Mark only one oval per row.

	Definetely not	Probably not	l am not sure	Probably yes	Definetely yes
Code Debt					
Defect Debt					
Design Debt					
Documentation Debt					
Test Debt					

## 18. Do you recall \*\*repaying TD that you introduced yourself\*\*? Please respond per TD type \*

Mark only one oval per row.

	Definetely not	Probably not	I am not sure	Probably yes	Definetely yes
Code Debt					
Defect Debt					
Design Debt					
Documentation Debt					
Test Debt					

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