End survey

Section 1:

How much experience do you have we how much experience do you have we how much experience do you have u	ith Android dev	velopment? (in y	years)	
If you have already used static analys	is tools, which o	ones?		
Section 2:				
In general, I think that I would use		frequently		
Tool 1: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Tool 2: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I found unnecessar	rily complex			
Tool 1: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Tool 2: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I found easy to use	!			
Tool 1: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Tool 2: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I would need the support of a technic	cal person to use	e		
Tool 1: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Tool 2: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I found the various functions of	we	ell integrated		
Tool 1: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Tool 2: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I thought there was too much incons	istency in			
Tool 1: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Tool 2: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I would imagine that most people wo	ould learn to use	2	very quickly	,
Tool 1: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Tool 2: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I found very cumbe	ersome to use			
Tool 1: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Tool 2: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I felt confident using				
Tool 1: Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Tool 2: Strongly disagree	Disagree	Neutral	Agree	Strongly agree

	ion 3:					
With .	, t Tool 1	the UI was blocke Tool 2	d when t	he analy	sis was runr	ning
	10011	10012				
This m	nade it easier to correct					
		_			_	Strongly agree
With .		the analysis	was trigg	ered wi	th a button	
	Tool 1	Tool 2		,		
\\/ith		the analysis	was trigg	sered on	huild	
vvicii.	Tool 1	Tool 2	was trigg	screa on	Dana	
I prefe		on build				
	,.					
After	I corrected a warning, I	_	er to get a	ın updat	e with:	
	Tool 1	Tool 2				
I notic	ed that with	, the	warnings	change	d as I was ed	liting the code
	Tool 1	Tool 2	J	_	r of the tool	
I felt d	comfortable with this sy	stem				
Tiene	Strongly disagree	Disagree			_	Strongly agree
C4						
	ion 4: Jeral, warnings were eas	sier to understand	d with:			
_	Tool 1			Neutra	I	
In gen	eral, warnings were eas Tool 1	sier to correct wit Tool 2	th:	Neutra	I	
In gen	eral, warnings were fas Tool 1	ter to understand Tool 2	d with:	Neutra	I	
In gen	eral, warnings were fas Tool 1	ter to correct wit Tool 2	:h:	Neutra	I	
In gen	eral, I had a better gras Tool 1	p on the applicat Tool 2	ion code	while us Neutra		
To cor	rect data leaks, I would Tool 1	rather use: Tool 2		Neutra	I	

How lik	cely is it	you w	ould rec	ommen	d Tool 1	over To	ol 2 to a	friend?				
	0	1	2	3	4	5	6	7	8	9	10	
How lik	cely is it	you w	ould rec	ommen	d Tool 2	over To	ol 1 to a	friend?				
	0	1	2	3	4	5	6	7	8	9	10	
Tool 1:	Positiv	•										
	Negati											
Tool 2:	Positiv	•										
	Negati	ve poi	nts:									
Section												
Which							uited for					
Would	•	_					ommen					
•••••	••••••	•••••	•••••	••••••	•••••	•••••	•••••		• • • • • • • • • • • • • • • • • • • •	•••••		•••••

Survey results

		P1	P2	Р3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18
	Tool 1 =	Base	CHEETAH		CHEETAH		CHEETAH		CHEETAH		CHEETAH		CHEETAH		CHEETAH		CHEETAH		CHEETAH
	Tool 2 =	CHEETAH	Base	CHEETAH	Base	CHEETAH	Base	CHEETAH	Base	CHEETAH	Base	CHEETAH	Base	CHEETAH		CHEETAH	Base	CHEETAH	Base
Castian 1	Inve EVD	~10	~10	١.,	10		٦.	~13	_ ا		,	10	١,	12	0 (4 yrs	5	10		10
Section 1	Java EXP	~10	~10	1	10	4	2+	~12	5	6.5	3	10	2	12	c#)	3	10		10
																Basic			
	Android EXP (years)	0.1	0	0	2	~0	0	2	4	0	0	0	0.5	0.25	0	concepts	0		0
	Static analysis exp									2.5									
	(years)	3	0	0	0	0	.5 - 1	0		months	0.5	0	0.5	0	3 months	0	0		4
Section 2 - Base	Q1+	3	5	4	4	3	2	2	3	3	4	3	3	4	4	4	3		4
	Q2-	3		4															3
	Q3+	2																	4
	Q4-	2																	4
	Q5+	4																	2
	Q6-	3												2			3		4
	Q7+	4																	3
	Q8-	2																	4
	Q9+	1	4	3	4	3	2	3	4	2	4	4	4	4	5	2	2		4
Normalized Base	Q1	2	4	3	3	2	1	1	2	2	3	2	2	3	3	3	2		3
	Q2	2																	2
	Q3	1															1		3
	Q4	3																	1
	Q5	3																	1
	Q6	2																	1
	Q7	3	3	2	3	4	4	2	3	1	3	3	4	4	4	3	1		2
	Q8	3	3	3	4	3	0	3	1	1	3	2	3	2	4	2	1		1
	Q9	0	3	2	3	2	1	2	3	1	3	3	3	3	4	1	1		3
Base ~SUS Score		19	29	22	30	23	20	20	23	13	25	20	27	26	33	18	11		17
Section 2 -								_			_								
	Q1+	4									5						4		4
	Q2-	3																	3
	Q3+	2																	4
	Q4- Q5+	5																	2
	Q6-	3												2			3		3
	Q7+	4																	4
	Q8-	2																	2
	Q9+	1																	4
Normalized																			
	Q1	4	3	3	3	3	3	4	3	3	4	3	3	2	3	3	3		3
	Q2	2	4	2	4	2	3	4	3	4	3	3	3	2	3	2	1		2
	Q3	1	3	3	3	3	3	3	3	0	3	4	4	3	3	1	1		3
	Q4	3						3			2	3	3	3	2	2			1
	Q5	4			2	2	3	3			3			3	4				1
	Q6	2												3					2
	Q7	3																	3
	Q8	3																	3
	Q9	0	3	3	3	2	3	3	3	3	4	4	4	2	3	1	1		3
CHEETAH ~SUS Score		22	28	25	31	22	27	32	28	24	28	29	32	23	29	18	14		21
	UI Block made it			23	31	- 22	- 27	32	20	- 24	20	29	32	23	29	10	14		21
	easier	2	2	4	2	3	1	1	1	1	5	1	3		4				
				,	Both				_	_					·				
	I prefered trigger				(depends														
	on	Build	Build	Build)	Build	Build	Build	Build	Build	Build	Build	Build	Button	Button	Button	Build		Button
	the decision to the second																		
	I had to wait longer		Base	CHEETAH		Base	Base	Base	Base		Base	Base	CHEETAH	CHEETAH	CHEETAH		Base		Base
	with	Base	Dusc																
	with Noticed warnings												Neither	Neither	Neither				
	with Noticed warnings change	Neither	СНЕЕТАН	Neither			СНЕЕТАН				CHEETAH						Neither		Neither
	with Noticed warnings		СНЕЕТАН	Neither		Neither 3			Neither 4							Neutral	Neither 3		Neither Neutral
	with Noticed warnings change I felt comfortable	Neither 3	CHEETAH 4	Neither 4		3	4		4	4	4	4	4		5	Neutral	3		Neutral
Section 4	with Noticed warnings change I felt comfortable Easier to understand	Neither 3 Neutral	CHEETAH 4 CHEETAH	Neither 4 CHEETAH	Neutral	3 Base	4 Neutral	СНЕЕТАН	4 Neutral	4 CHEETAH	4 CHEETAH	4 CHEETAH	4 Neutral	Neutral	5 Neutral	Neutral Neutral	3 CHEETAH		Neutral Neutral
Section 4	with Noticed warnings change I felt comfortable	Neither 3	CHEETAH 4 CHEETAH	Neither 4	Neutral	3	4 Neutral	СНЕЕТАН	4 Neutral	4	4 CHEETAH	4 CHEETAH	4	Neutral	5 Neutral	Neutral Neutral	3		Neutral
Section 4	with Noticed warnings change I felt comfortable Easier to understand Easier to correct	Neither 3 Neutral	CHEETAH 4 CHEETAH	Neither 4 CHEETAH	Neutral Neutral	Base CHEETAH	Neutral CHEETAH	CHEETAH Neutral	Neutral CHEETAH	CHEETAH CHEETAH	CHEETAH CHEETAH	CHEETAH Neutral	A Neutral CHEETAH	Neutral Neutral	Neutral Neutral	Neutral Neutral Neutral	CHEETAH CHEETAH		Neutral Neutral CHEETAH
Section 4	with Noticed warnings change I felt comfortable Easier to understand Easier to correct Faster to understand	Neither 3 Neutral	CHEETAH 4 CHEETAH	Neither 4 CHEETAH	Neutral Neutral	Base CHEETAH CHEETAH	Neutral CHEETAH Neutral	CHEETAH Neutral	Neutral CHEETAH CHEETAH	CHEETAH CHEETAH CHEETAH	CHEETAH CHEETAH CHEETAH	CHEETAH Neutral CHEETAH	A Neutral CHEETAH Neutral	Neutral Neutral	Neutral Neutral	Neutral Neutral Neutral	CHEETAH CHEETAH Neutral		Neutral Neutral CHEETAH CHEETAH
Section 4	with Noticed warnings change I felt comfortable Easier to understand Easier to correct Faster to understand Faster to correct	Neither 3 Neutral	CHEETAH 4 CHEETAH	Neither 4 CHEETAH	Neutral Neutral Neutral CHEETAH	Base CHEETAH CHEETAH CHEETAH	A Neutral CHEETAH Neutral CHEETAH	CHEETAH Neutral Neutral CHEETAH	Neutral CHEETAH CHEETAH CHEETAH	CHEETAH CHEETAH CHEETAH CHEETAH	CHEETAH CHEETAH CHEETAH CHEETAH	CHEETAH Neutral CHEETAH Neutral	A Neutral CHEETAH Neutral CHEETAH	Neutral Neutral Neutral Base	Neutral Neutral Neutral Neutral	Neutral Neutral Neutral Neutral Neutral	CHEETAH CHEETAH Neutral CHEETAH		Neutral Neutral CHEETAH CHEETAH CHEETAH
Section 4	with Noticed warnings change I felt comfortable Easier to understand Easier to correct Faster to understand Faster to correct Better grasp on app	Neither 3 Neutral Neutral	CHEETAH CHEETAH CHEETAH	Neither 4 CHEETAH CHEETAH	Neutral Neutral Neutral CHEETAH Neutral	Base CHEETAH CHEETAH CHEETAH CHEETAH	Neutral CHEETAH Neutral CHEETAH CHEETAH	CHEETAH Neutral Neutral CHEETAH CHEETAH	Neutral CHEETAH CHEETAH CHEETAH Neutral	CHEETAH CHEETAH CHEETAH CHEETAH CHEETAH	CHEETAH CHEETAH CHEETAH CHEETAH Neutral	CHEETAH Neutral CHEETAH Neutral Neutral	Neutral CHEETAH Neutral CHEETAH Neutral	Neutral Neutral Neutral Base CHEETAH	Neutral Neutral Neutral Neutral Neutral	Neutral Neutral Neutral Neutral Neutral Neutral	CHEETAH CHEETAH Neutral CHEETAH Neutral		Neutral Neutral CHEETAH CHEETAH CHEETAH Neutral
Section 4	with Noticed warnings change I felt comfortable Easier to understand Easier to correct Faster to understand Faster to correct Better grasp on app Would rather use	Neither 3 Neutral Neutral	CHEETAH 4 CHEETAH	Neither 4 CHEETAH CHEETAH	Neutral Neutral Neutral CHEETAH Neutral	Base CHEETAH CHEETAH CHEETAH CHEETAH Neutral	Neutral CHEETAH Neutral CHEETAH CHEETAH	CHEETAH Neutral Neutral CHEETAH CHEETAH	Neutral CHEETAH CHEETAH CHEETAH Neutral	CHEETAH CHEETAH CHEETAH CHEETAH	CHEETAH CHEETAH CHEETAH CHEETAH Neutral	CHEETAH Neutral CHEETAH Neutral Neutral	Neutral CHEETAH Neutral CHEETAH Neutral CHEETAH	Neutral Neutral Neutral Base CHEETAH	Neutral Neutral Neutral Neutral	Neutral Neutral Neutral Neutral Neutral	CHEETAH CHEETAH Neutral CHEETAH		Neutral Neutral CHEETAH CHEETAH CHEETAH

Interview questions, sorted thematically

Introductory questions

What did you think of the tools in general? Did you notice differences between the two tools? Which ones?

Performance

Did you think you performed better with Tool 1 or Tool 2? What do you mean by "better"? Faster? More warnings solved? Detail per tool.

Ordering system

Did you notice any kind of sorting system in the overview view for any of the tools? If yes, which one?

Did the sorting system help or hurt?

With which criteria do the participants usually sort this kind of results?

Waiting times

Did you notice a difference between the waiting times when using Tool 1 compared to Tool 2? Specify waiting times. How much in seconds for each tool, and to which events does that correspond to (from when they saved to when they saw the first update, or something else)? Was waiting a problem? Why?

Strategies to use the tools

If you had to work with Tool 1 for a few months, would you have a particular strategy for using it (when to use it, how often)?

If you had to work with Tool 2 for a few months, would you have a particular strategy for using it?

Interruption

(Ask this towards the end of the interview, if the topic has not been brought up by the participant yet)
How interruptive would you say Tool 1 was in your development task?
How interruptive would you say Tool 2 was in your development task?
What kind of interruptions would you accept while developing?
Discuss blocking interface and quick fixes

Personal experience

Did you ever use any static analysis tool or a tool that is similar to Tool 1 or Tool 2? If yes, which ones? Explain how they work and what they like or not about those tools?

UI questions

(Ask this towards the end of the interview, if the topic has not been brought up by the participant yet) Which UI differences did you notice between the two tools? (Go into UI details) Was the greying effect helpful? In which cases? Why? Why not?

Towards the end of the interview, ask participant if they have any comments, and comment on their notable behaviours during the study. Can prompt interesting discussions.