

APPENDIX

Table 1 shows descriptive statistics about the individual ImpRec sessions. The first two leftmost columns depict participant ID and session ID. The next three columns show: number of related issue reports in the gold standard, number of true related issue reports recommended by ImpRec, number of useful but not true recommendations (denoted #Extra). Then three columns show results regarding impacted artifacts, analogous to the related issues. Finally, the CIA? column denotes whether a CIA report was stored for the corresponding issue, the Conf. rel.? column indicates whether the participant confirmed any ImpRec output as relevant during the given session, and the Missed column shows how many of the true impact recommendations provided by ImpRec were missed by the participant.

TABLE 1
Detailed results, per session, from the dynamic validation.

ID	Session ID	Related issue reports			Impacted artifacts			CIA?	Conf. rel.?	Missed	
		#Gold	#True	#Extra	#Gold	#True	#Extra				
Sweden	D	1	1	0	4	N/A	N/A	1		X	
		2	2	1	1	3	0	0	X	X	
		3	4	0	0	N/A	N/A	0			
		4	2	0	0	N/A	N/A	0			
		5	2	0	0	5	0	2	X	X	
		6	4	1	3	6	5	0	X	X	4
		7	1	0	2	N/A	N/A	1		X	
		8	4	0	0	10	0	0	X	X	
	E	1	3	0	0	9	0	0	X		
		2	1	0	1	6	0	0	X	X	
		3	4	2	0	6	6	0	X	X	2
		4	3	3	0	3	3	0	X	X	
		5	2	1	2	4	4	6	X	X	
		6	3	0	0	4	0	0	X		
7		3	0	0	1	0	0	X			
8		1	0	2	4	0	1	X	X		
9		1	0	0	2	2	1	X	X	1	
10		2	0	0	4	1	0	X	X		
11		0	0	0	1	0	0	X			
12		0	0	0	0	0	0	X			
13		0	0	0	9	6	0	X	X	4	
14		0	0	0	9	6	0	X	X	1	
F	1	1	1	5	N/A	N/A	0		X		
	2	2	0	0	N/A	N/A	5		X		
	3	2	0	0	6	1	1	X	X		
	4	0	0	3	0	0	0	X	X		
	5	3	0	4	13	1	0	X	X		
	6	1	1	1	N/A	N/A	1		X		
	7	0	0	0	N/A	N/A	0				
	8	1	0	0	14	12	0	X	X	6	
G	1	2	0	0	5	0	0	X			
	2	0	0	0	21	0	0	X			
	3	5	0	2	6	1	1	X	X		
India	H	1	2	0	0	N/A	N/A	0			
		2	0	0	0	N/A	N/A	0			
		3	3	0	1	4	1	0	X	X	1
	I	1	16	0	2	N/A	0	0		X	
	J	1	3	0	0	2	0	0	X		
	2	1	0	5	N/A	N/A	1		X		
	K	1	2	0	7	8	0	0	X	X	
	L	Performed no change impact analysis during the study									
	M	1	4	0	6	1	1	0	X	X	
	N	1	0	0	3	0	0	4	X	X	
2		0	0	1	0	0	2	X	X		
Sum								31	30	19	