SafeHome Final Report

TEAM5 (Sumin Han, Joonhoo Oh)

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- 1. Report the modules you have developed in pair programming and the time spent together for pair programming.
- 2. Report the modules each of you have developed individually and the time spent for developing such modules

			Pair	Individual Pi	rogramming
Packages	#	Classes	Programming	Sumin Han	Joonhoo Oh
safehome	1	Alarm		4	2
	2	CameraTest			
	3	CameraView			
	4	ControlSoftware	5	5	5
	5	MainDemo		1	
	6	MainDemoApp			
	7	SensorControl		1	1
safehome.device	1	interfaceCamera			
	2	interfaceSensor			
	3	DeviceCamera			
	4	DeviceControlPanelAbstract			
	5	DeviceMotionDetector			
	6	DeviceSensorTester			
	7	DeviceWinDoorSensor			
safehome.web	1	AboutView		1	
	2	DeviceUnit		0.5	
	3	FloorPlan		15	
	4	Login		1	
	5	SecurityZone		0.5	
	6	Surveillance		1	
	7	User		0.1	
	8	WebMainView		2	
	9	WebService		0.5	
safehome.test	1	MainDemoTest		20	

^{*}Gray lines indicate they are same or almost similar to the initial demo.

3. Report the statistics on the size and complexity of your code

Coverage								
Session: MainDemoApp (2015. 6. 7 오전 3:11:21)								
Counter	Coverage	Covered	Missed	Total				
Instructions	98.5 %	6,524	96	6,620				
Branches	93.2 %	437	32	469				
Lines	97.8 %	1,505	34	1,539				
Methods	95.9 %	163	7	170				
Types	100.0 %	31	0	31				
Complexity	90.4 %	368	39	407				

LOC(Lines Of Code): 1,539

of files: 23

of branches: 437 # of classes: 24 # of methods: 170

cyclometic complexities of methods: 368

4. Test cases (both unit testing using JUnit and integration testing) and results (coverage as well)

- You have to clearly show the traceability of your test cases (i.e., describe based on which elements of SRS, analysis model, and design model you designed test cases including test input values and assertion)
- Your test results must be able to be reproduced by TAs

4.A. Execution Order

				Traceability		
TestAction	Execution	CP (SD-1)	WEB (SD-2)	UC	FC	SqD
1	CP, Web Service execute	V				
2	Web Service pass wrong		V	-3-1	-4	-3
3	Web Service pass2 wrong		V	-3-1	-4	-3
4	Web Service Login		V	-3-1	-4	-3
5	Serveillance -> Thumbnail		V	-7-1	-13	
6	Camera Detail		V	-7-2	-13	
7	PanLeft 7 times		V	-7-3	-13	-13
8	PanRight 12 times		V	-7-3	-13	-13
9	Zoomln 10 times		V	-7-3	-13	-13
10	ZoomOut 10 times		V	-7-3	-13	-13
11	Help -> About -> close		V			
12	Away (must be turned on)		V	-4-1	-5	-4
13	Stay (must be turned on)		V	-4-2	-6	-5

14	Camer click		V	-7-2	-13	
15	Wd1 click		V	-2-1	-3	-11
16	Mo1 click		V	-2-1	-3	-11
17	Wd2 click click		V	-2-1	-3	-11
18	Mo2 click click		V	-2-1	-3	-11
19	Zone click		V	-2-3	-3	
	zone#0, add mo5 with once					
20	cancel		V	-2-3	-3	
	zone#0, add wd5 with once					
21	cancel		V	-2-3	-3	
22	zone#0, add cam5 with once cancel		V	-2-3	-3	
23	zone#0, remove mo5, wd5, cam5 trial		V	-2-3	-3	
24	Zone#1, 2, click		V	-2-3	-3	
25	Wd1 click		V	-2-3	-3	
26	Mo1 click		V	-2-3	-3	
27	Cam1 click		V	-2-3	-3	
28	Zone Add click with once cancel		V	-2-3	-3	
29	Mo3 click		V	-2-3	-3	
30	Cam3 click		V	-2-3	-3	
31	Wd5 click		V	-2-3	-3	
32	Mo3 click click		٧	-2-3	-3	
33	Cam3 click click		٧	-2-3	-3	
34	Wd5 click click		٧	-2-3	-3	
35	Zone#2 click		٧	-2-3	-3	
36	Zone Delete click with once cancel		V	-2-3	-3	
37	Zone Addmax		V	-2-3	-3	
38	Zone Delmax		V	-2-3	-3	
39	Finish click		V	-2-3	-3	
40	CP on	٧		-1-1	-1	-1
41	away (one cancel + ok)		٧	-4-3	-7	-6
42	away (already)		٧	-4-3	-7	-6
43	stay (one cancel + ok)		٧	-4-4	-8	-7
44	stay (already)		V	-4-4	-8	-7
45	CP off	٧		-1-2	-2	-2
46	CP on	٧		-1-1	-1	-1
47	invalid click!!!	V				
				'		

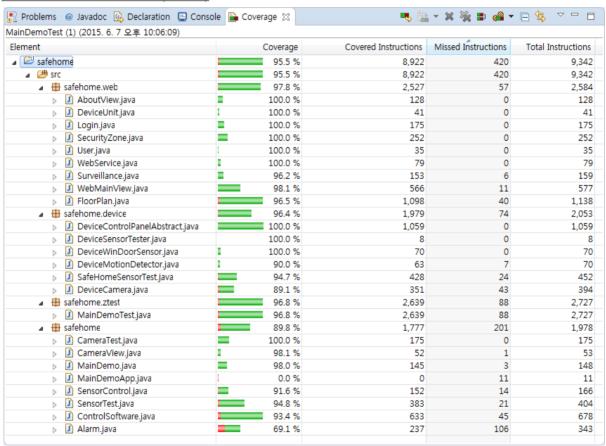
48	Reset	V		-6-2		
	CP off wrong (enter with					
49	password 2, 3, 7, 8)	V		-1-1	-2	-2
50	4, 5, 6, 9, #, 0, *, 8(Stay)	V				
51	Wd1, Mo2 sensor on	V				
52	Away trial	V		-4-1	-5	-4
53	Mo2 off	V				
54	Away succeed	V		-4-1	-5	-4
55	invalid click!!! (not alarm)	V				
56	Wd2 on	V				
57	Mo5, Wd2 disarm		V	-2-1	-3	-11
58	Mo5, Wd2 arm		V	-2-1	-3	-11
59	Wd2 close	V				
60	Wd4 disarm		V	-2-1	-3	-11
61	Wd4 open (nothing)	V				
62	stay timeout	V		-4-2	-6	-5
63	stay	٧		-4-2	-6	-5
64	away fail	٧		-4-1	-5	-4
65	invalid click!!!	∀				
66	wd4 notuse		V	-2-2	-3	
67	away success	V		-4-1	-5	-4
68	mo3 detect	V		-6-2		
69	reset	V		-6-2		
70	reset again	V		-6-2		
71	1, 2, 3, 4, 5, 6, 7, 8, 9, *, 0, #	٧				
72	mo3 disarm		V	-2-1	-3	-11
73	stay	٧		-4-2	-6	-5
74	off	V		-1-2	-2	-2
75	wd and mo sensor> no input	V				
	wd and mo sensor> no					
76	number	V				
	wd and mo sensor> over					
77	number	V				
78	securityzone turn off		V			

4.B.1. JUnit Testing Result

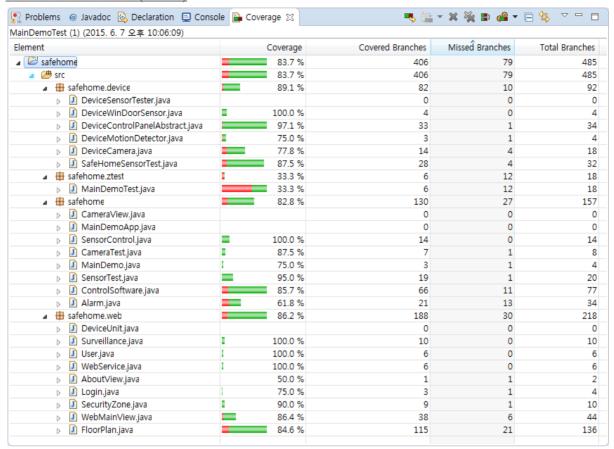
1.Overall Coverage

Coverage				⟨> ▼ ⟨>				
Session: MainDemoTest (1) (2015. 6. 7 오후 10:06:09)								
Counter	Coverage	Covered	Missed	Total				
Instructions	95.5 %	8,922	420	9,342				
Branches	83.7 %	406	79	485				
Lines	94.3 %	1,947	118	2,065				
Methods	94.0 %	173	11	184				
Types	97.0 %	32	1	33				
Complexity	80.7 %	352	84	436				

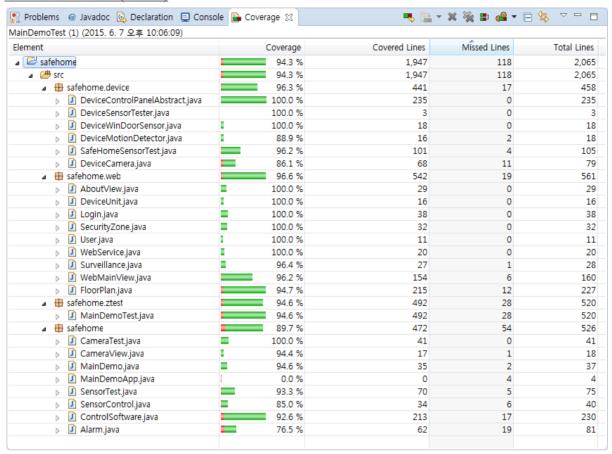
2. Instruction Counters (95.5%)



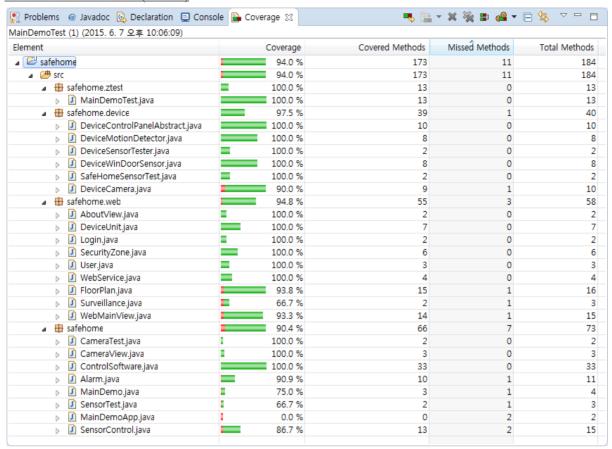
3. Branch Counters (83.7%)



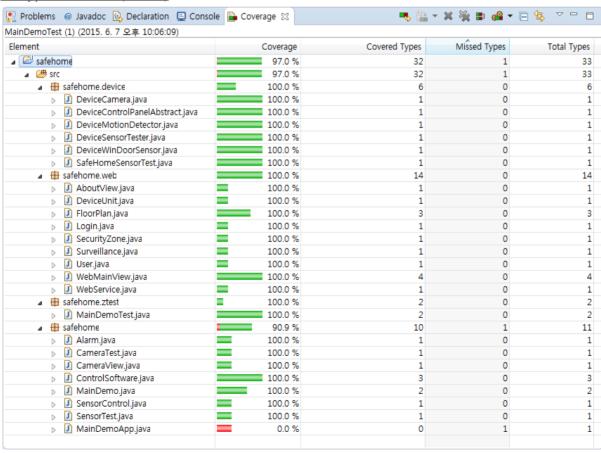
4. Line Counters (94.3%)



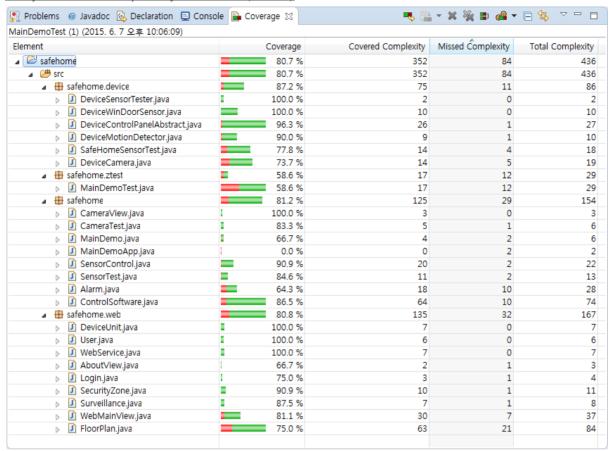
5. Method Counters (94.0%)



6. Type Counters (97.0%)

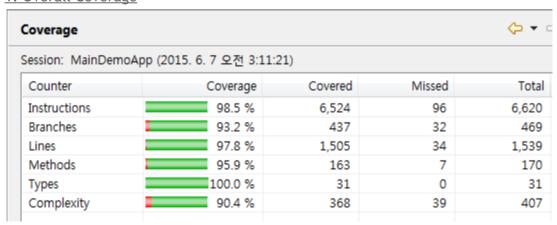


7. Cyclometic Complexity Counters (80.7%)

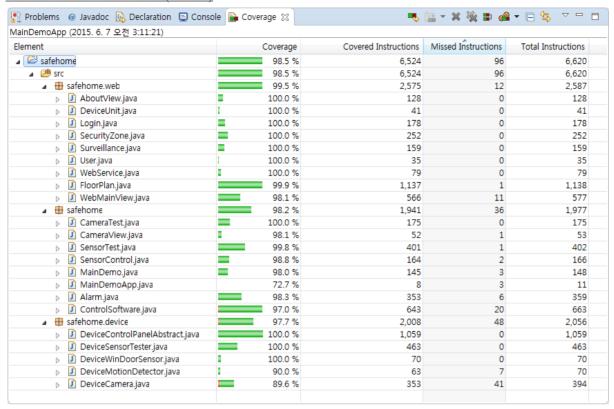


4.B.2. Integration Testing Result

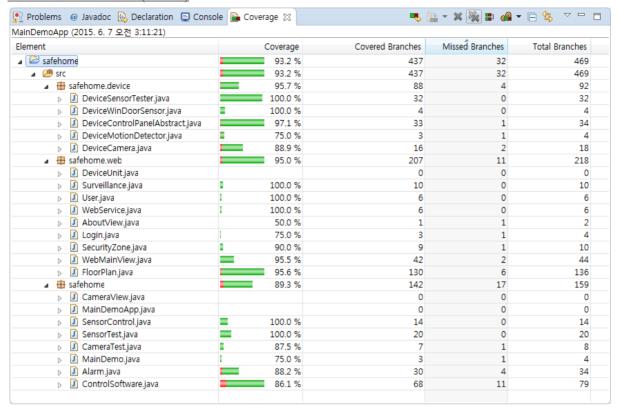
1. Overall Coverage



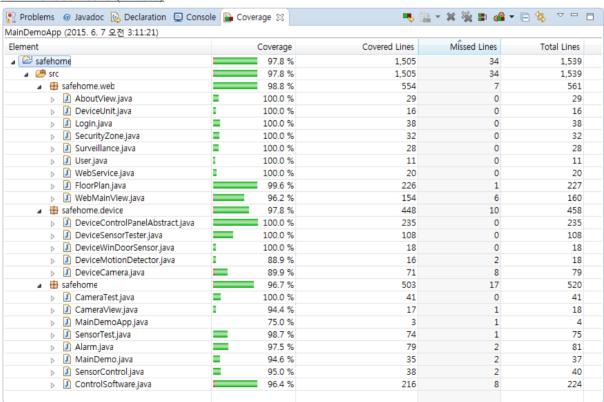
2. Instruction Counters (98.5%)



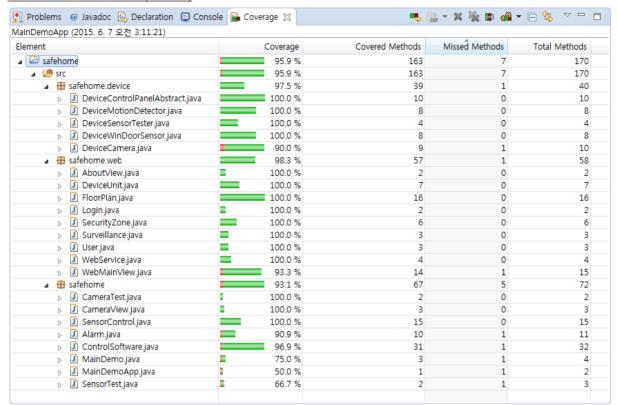
3. Branch Counters (93.2%)



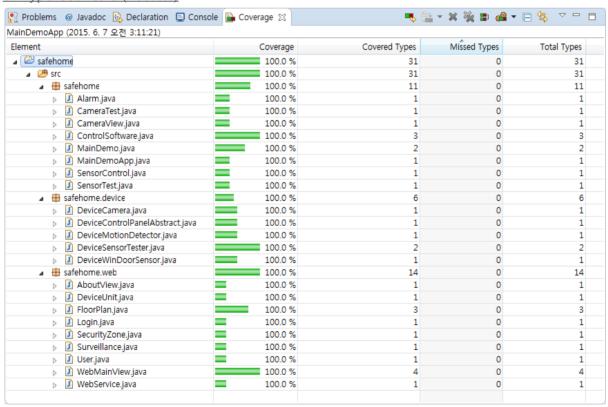
4. Line Counters (97.8%)



5. Method Counters (95.9%)



6. Type Counters (100.0%)



7. Cyclometic Complexity Counters (90.4%)

