

SOA-1				
# of Services	Services	Service Type	# of Operations	DC(s)
1	login\sign up		1	1
2	Patient		4	5
3	doctor		4	2
4	Lab Assistant		2	2
5	Nurse		1	1
6	Pharmacy		2	2
7			0	
8			0	
9			0	
10			0	
11			0	
Total	6		14	13

Direct Coupling in a System	13
In-Direct Coupling in a System	3
Total Coupling in a System	16
Total Cohesion in a System	14
Coupling Factor in a System	0.0421
Cohesion Factor in a System	0.4474
Total Complexity in a System	416.7
Reusability Factor in a System	0.8750

Maintainability Factors	Value	Upper Bound	
Cohesion (+ve) impacts (25%)	447.3684	100	111.8421053
Coupling (-ve) impacts (25%)	42.1053	100	10.52631579
No of Complex Services (-ve)(25%)	1	20	1.25
Complexity (-ve) impacts (25%)	416.7	300	34.72887731
Total Maintainability Factor in a Sys			

Coupling		Cohesion		Complexity		
IC(s)	CopF(s)	CM(s)	CohF(s)	TCM(s)	ComF(s)	TCM(s)
0	0.5	2	0.010526316	1.5	47.5	71.25
1	0.3	4	0.210526316	2.75	1.425	3.91875
2	0.2	3	0.157894737	3	1.2666667	3.8
0	0.33333333	2	0.031578947	2.5	10.555556	26.388889
0	0.5	1	0.005263158	3	95	285
0	0.33333333	2	0.031578947	2.5	10.555556	26.388889
	#DIV/0!		0	0	0	0
	#DIV/0!		0	0	0	0
	#DIV/0!		0	0	0	0
	#DIV/0!		0	0	0	0
	#DIV/0!		0	0	0	0
3	#DIV/0!	14	0.447368421		TCM(SOS)	416.746528

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Final Score
111.8421053
14.47368421
23.75
-9.728877315
140.34

Cohesion & Coupling (s)

f= NS(s) + NO(s)	f2 - f
2	2
5	20
5	20
3	6
2	2
3	6
1	0
0	0
0	0
0	0
0	0

For System (SOS)

f= NS(sos) + NO(sos)	f2 - f
20	380