

# /Project/GOF Project



## Software System Development Rollup Plan Summary

### Defect reports

Defect and Yield	Defects Injected per Hour		Defects Removed per Hour		% Phase Yield		% Process Yield	
	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Actual
Project Planning and Oversight	0	0	0	0	0%	#DIV/0!		
Software Development Environment	0	0	0	0	0%	#DIV/0!	#DIV/0!	#DIV/0!
Detailed Planning	0	0	0	0.02	0%	#DIV/0!	#DIV/0!	#DIV/0!
System Requirements Analysis	0.25	1.01	0	0	0%	0%	#DIV/0!	#DIV/0!
System Requirements Review	0	#DIV/0!	#DIV/0!	#DIV/0!	70%	0%	0%	8.33%
System Requirements Inspection	0	0	0.07	1.2	70%	109%	70%	8.33%
System Test Preparation	0	#DIV/0!	#DIV/0!	#DIV/0!	0%	#DIV/0!	91.0%	108%
System Design	0.25	#DIV/0!	#DIV/0!	#DIV/0!	0%	#DIV/0!	91.0%	100%
System Design Review	0	#DIV/0!	#DIV/0!	#DIV/0!	70%	100%	91.0%	100%
System Design Inspection	0	#DIV/0!	#DIV/0!	#DIV/0!	70%	#DIV/0!	97.3%	100%
Software Requirements Analysis	0.25	#DIV/0!	#DIV/0!	#DIV/0!	0%	#DIV/0!	99.2%	100%
Software Requirements Review	0	#DIV/0!	#DIV/0!	#DIV/0!	70%	#DIV/0!	99.2%	100%
Software Requirements Inspection	0	#DIV/0!	#DIV/0!	#DIV/0!	70%	#DIV/0!	99.8%	100%
Software Test Preparation	0	#DIV/0!	#DIV/0!	#DIV/0!	0%	150%	99.9%	100%
Software Design	0.25	1.0	0	0	0%	0%	99.9%	106%
Software Design Review	0	0	1.09	2.35	70%	30.8%	35.9%	58.1%
Software Design Inspection	0	0	0.09	1.18	70%	88.9%	80.8%	71.0%
Detailed Design	2	#DIV/0!	#DIV/0!	#DIV/0!	0%	0%	94.2%	96.8%
Detailed Design Review	0	#DIV/0!	#DIV/0!	#DIV/0!	70%	0%	94.2%	90.9%
Detailed Design Inspection	0	#DIV/0!	#DIV/0!	#DIV/0!	70%	0%	98.3%	90.9%
Code	4	1.63	0	0.23	0%	13.2%	99.5%	90.9%
Code Review	0	0	5.63	2.7	70%	42.4%	3.24%	51.5%
Compile	0.3	#DIV/0!	#DIV/0!	#DIV/0!	50%	0%	71.0%	72.1%
Code Inspection	0	0	3.26	0.78	70%	31.6%	85.5%	72.1%
Unit Test	0.2	0	0.24	0.78	50%	61.5%	95.6%	80.9%
Unit Integration	0	0	0.43	2.13	50%	120%	96.4%	92.6%
Test Readiness Review	0	#DIV/0!	#DIV/0!	#DIV/0!	0%	0%	98.2%	101%

Part of SUMQ

Very good design inspection.

Minor code mistates, so inexpensive fixes.

Low yield, the reason is the same - unit testing was conducted on individually developed components

Low process yield: Possible reason: we performed unit tests on individual components before we inspected code in group.

Fixes were pretty quick. Due to minor defects.

Software Qualification Testing	0	#DIV/0!	#DIV/0!	#DIV/0!	50%	0%	98.2%	101%
System Integration	0	#DIV/0!	#DIV/0!	#DIV/0!	50%	0%	99.1%	101%
System Qualification Testing	0	#DIV/0!	#DIV/0!	#DIV/0!	50%	0%	99.5%	101%
Software Use and Transition Prep	0	#DIV/0!	#DIV/0!	#DIV/0!	0%	0%	99.8%	101%
Miscellaneous	0	#DIV/0!	#DIV/0!	#DIV/0!	0%	0%	99.8%	101%
Postmortem	0	0	0	0	0%	0%	99.8%	101%
Software Use and Transition	0	#DIV/0!	#DIV/0!	#DIV/0!	100%	0%	99.8%	101%
Total	0.82	0.36	0.82	0.36				

Defect Rates

	Plan	Actual
AFR	1.23	2.4
Sys Reqts Inspect / Appraisal Rate	0	0
SW Design Review / Appraisal Rate	2.5	9.41
SW Design Inspect / Appraisal Rate	1.14	2.35
Code Review / Appraisal Rate	36.9	104
Code Inspect / Appraisal Rate	57.9	70.3
% Failure COQ	15.9%	6.89%
% Appraisal COQ	19.6%	16.5%
After Development / Defects Removed	0	0

We did good on all appraisal phased. More than planned appraisal rates indicate the same.

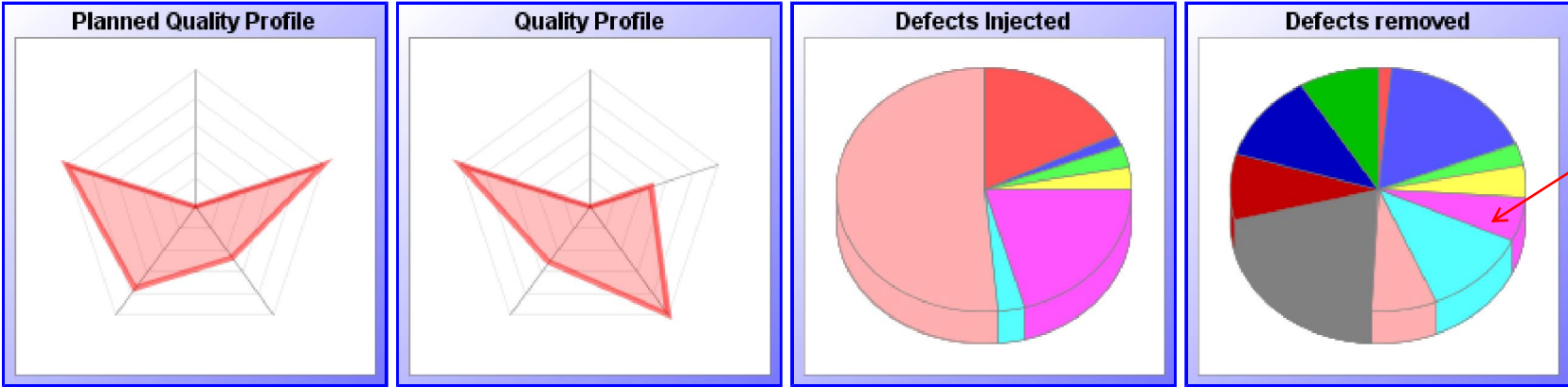
Defect Fix Times				
		Defects Found in Test	Defects Found in SW Int Test	Total Defects Found
Defects Injected in Sys Reqts	Tot. fix time	-	-	16.4
	Tot. defects	-	-	<u>12</u>
	Avg. fix time	-	-	1.37
Defects Injected in Sys Test Prep	Tot. fix time	-	-	0.2
	Tot. defects	-	-	<u>1</u>
	Avg. fix time	-	-	0.2
Defects Injected in SW Test Prep	Tot. fix time	-	-	1.7
	Tot. defects	-	-	<u>2</u>
	Avg. fix time	-	-	0.85
Defects Injected in SW Design	Tot. fix time	-	-	41.7
	Tot. defects	-	-	<u>14</u>
	Avg. fix time	-	-	2.98
Defects Injected in Design	Tot. fix time	-	-	8.6
	Tot. defects	-	-	<u>2</u>
	Avg. fix time	-	-	4.3
	Tot. fix time	20.2	27.3	158.3

100% requirement inspection yield

Defects injected in design and found in testing are the most expensive defects

Defects Injected in Code	Tot. defects	8	6	35
	Avg. fix time	2.52	4.55	4.52
Total Defects Injected	Tot. fix time	20.2	27.3	279.5
	Tot. defects	8	6	69
	Avg. fix time	2.52	4.55	4.05

Total 69 defects.  
Took 4.05 mins on  
avg. to fix a  
defect.



Complete image is  
present in the  
same submission  
folder.

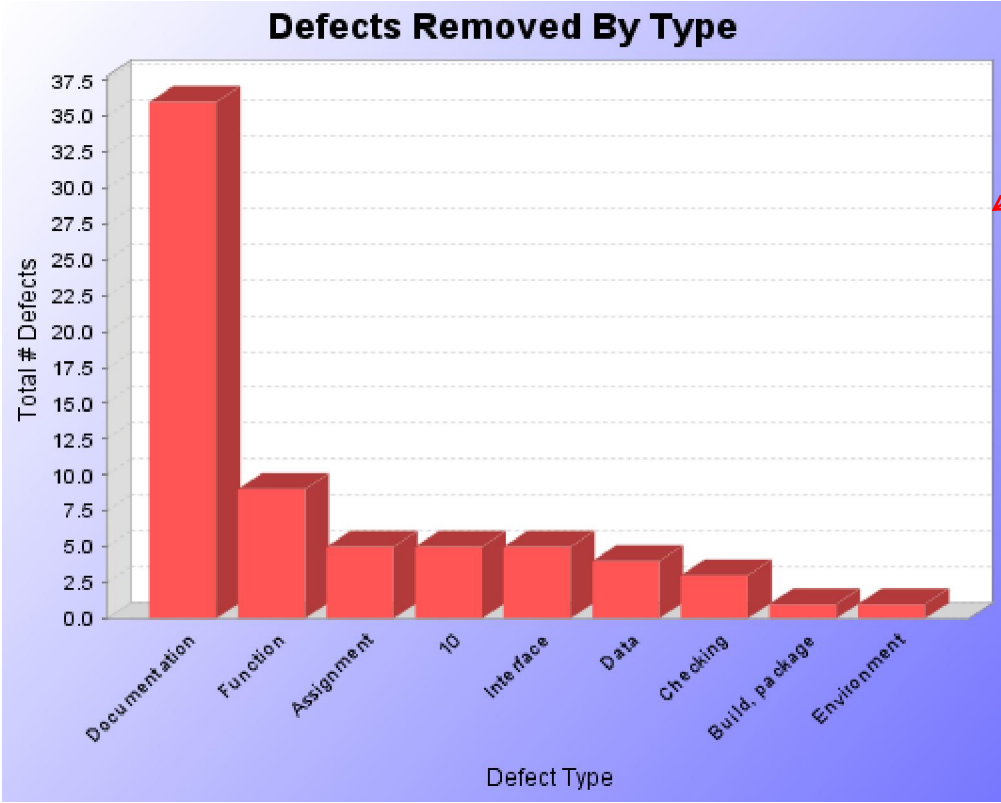
	Number Injected						Percentage Injected						Number Removed		Percentage Removed		
Type	Sys Reqts	Sys Test Prep	SW Test Prep	SW Design	Design	Code	Sys Reqts	Sys Test Prep	SW Test Prep	SW Design	Design	Code	Test	SW Int Test	Test	SW Int Test	
10	-	1	2	-	-	-	-	100%	100%	-	-	-	-	-	-	-	
Assignment	-	-	-	-	1	4	-	-	-	-	50%	11%	2	-	25%	-	
Build, package	-	-	-	-	-	1	-	-	-	-	-	3%	-	-	-	-	
Checking	-	-	-	-	-	3	-	-	-	-	-	9%	1	-	12%	-	
Data	-	-	-	-	-	4	-	-	-	-	-	11%	1	2	12%	33%	
Documentation	12	-	-	14	-	10	100%	-	-	100%	-	29%	-	1	-	17%	
Function	-	-	-	-	1	8	-	-	-	-	50%	23%	4	-	50%	-	
Interface	-	-	-	-	-	5	-	-	-	-	-	14%	-	3	-	50%	
Total	12	1	2	14	2	35	100%	100%	100%	100%	100%	100%	8	6	100%	100%	

No Major defect in  
integration testing  
.

50% function  
defects in unit  
testing

50% of the defects  
were user  
interface related

Only 14 (8+6)  
defects found in

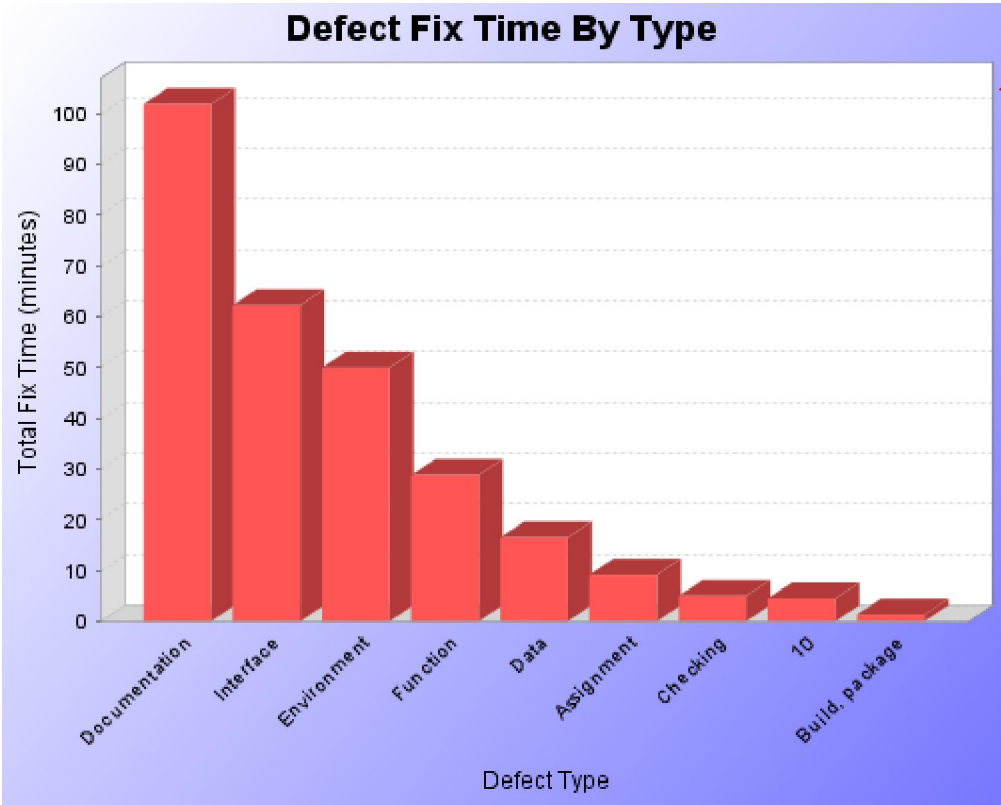


around 36 defects were documentation defects.

Very few function defects, which is a good indication that our design was detailed enough to be implemented and logic and flow was correctly implemented.

most time spent on documentation defects. Documentation defect include design and requirement defects too.

There was only 1 env defect, however, it took significant time.



Defect Log

Project/Task	Date	ID	Type	Injected	Removed	FixTime	FixDefect	Description
/Project/GOF Project	04/15/2009	10		Sys Design Review	Sys Design Review	1.4		To include change label type for the comparator
/Project/GOF Project	04/15/2009	10		Sys Design Review	Sys Design Review	1.2		Removed the dependency relationship between the UI and comparator for sending commands, as it is routed through the controller
/Project/GOF Project	04/22/2009		Documentation	SW Design	Code	8.1		There was no command class for putting source, destination and output file together. We need to have this. This will cause the UI to set the controller parameters in one click.
/Project/GOF Project/Client/Code Line Counter/Cycle 1	04/04/2009		Documentation	Sys Reqts	Sys Reqts Inspect	1.4		Team number has a different label.





/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Function	Code	Test	2.6	Source lines are not getting set. only line numbers are set.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Data	Code	Test	1.5	Changed line contained "<" or ">" which is not required.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Checking	Code	Test	0.7	CompareAll method do not throw exception, where it should be.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Assignment	Code	Test	0.7	result in the method ChangeDescriptor:toString() was uninitialized. Causing null pointer excpetion.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Function	Code	Test	6	Changed/added/deleted lines are not getting printed on new lines. (In information).
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Assignment	Code	Test	0.7	Destination lines (source2) are represented as '<', which should be prefixed by ">"
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Function	Code	Test	7.2	In case of added line also it prints line numbers in the source (first file).
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Function	Code	Test	0.8	GUI is not notifying the user upon success of failure of a comparison opration.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Documentation	Code	Code Inspect	4	Comments for the setters and getters in ChangeDescriptor.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Documentation	Code	Code Inspect	2	Comments for methods in Comparator interface.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Documentation	Code	Code Inspect	4	Comments absent in the UserInterface interface.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Documentation	Code	Code Inspect	1.4	No comments in CmdOneClickCompare class.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Build, package	Code	Code Inspect	1.3	Wrong import is used in the Controller. com.sun.org.apache.*
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/27/2009	Function	Code	Code Inspect	1.1	Remove main method from the GUI.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/29/2009	Interface	Code	SW Int Test	5.2	System do not check if files were valid. It crashes if invalid files (not existing, wrong names, etc) are informed
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/29/2009	Interface	Code	SW Int Test	3	UI does not provide feedback when stop processing
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/29/2009	Data	Code	SW Int Test	7	Fix the information on final file report: Eg: Line Numbers (File#1) 0-9 -> fix the information "0-9"
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/29/2009	Documentation	Code	SW Int Test	3	Step 4 on help says that is possible to see the summary result on the screen, but there is no field on screen to see the summary.
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/29/2009	Data	Code	SW Int Test	6.1	The information created by the system on the report file is not the same as specified on SRS (REQ004): Comparison date is missing; Total line number is missing
/Project/GOF Project/Client/Code Line Counter/Cycle 2	04/29/2009	Interface	Code	SW Int Test	3	Text box to inform files names should be larger to better see the files names provided by the user.