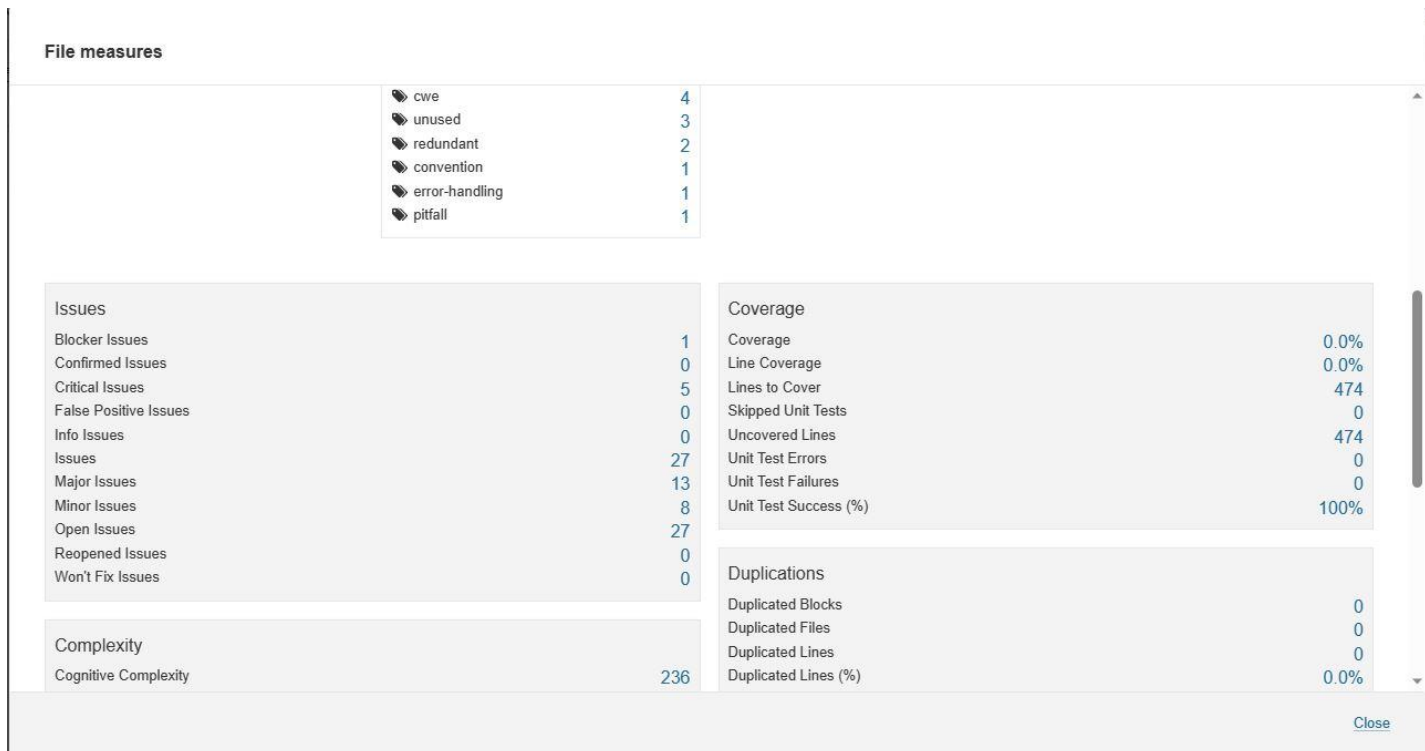
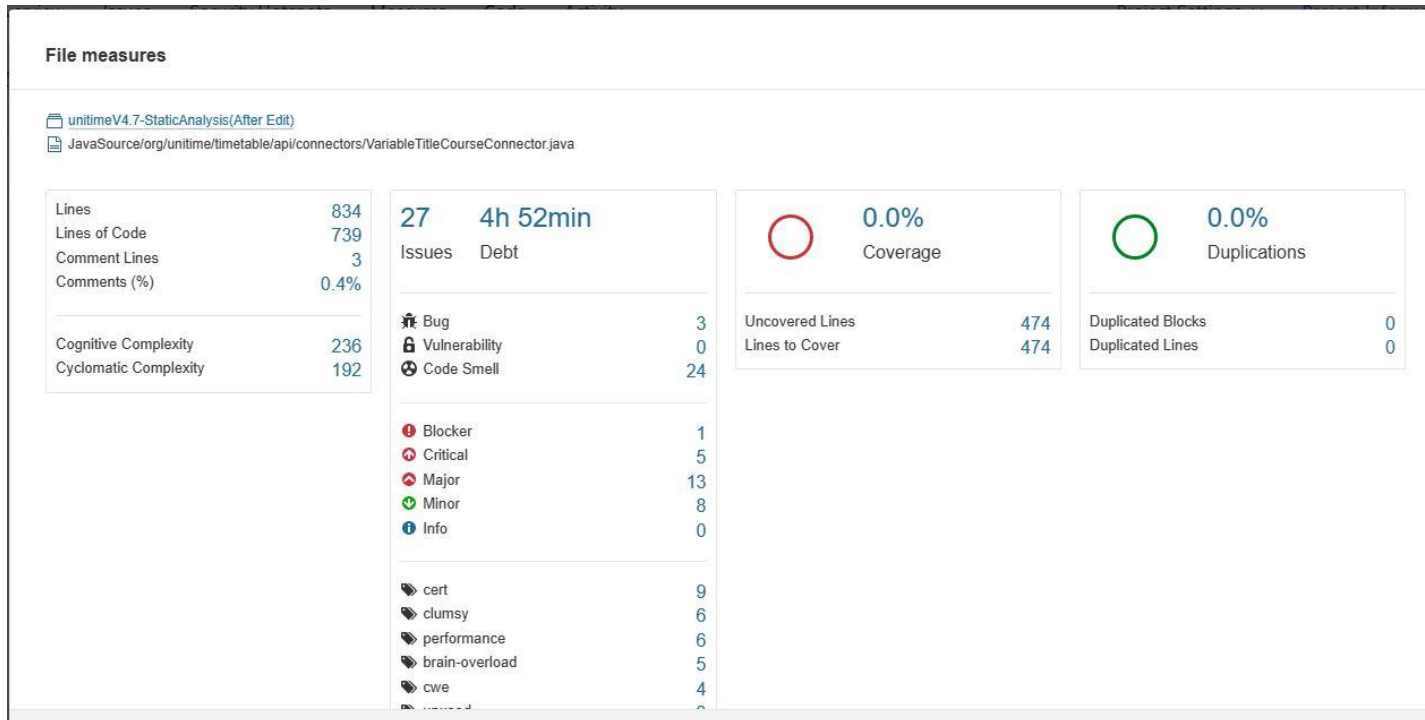


# Bug And Smell Code fixes

After Edit In the Code according to test analisize Sonar qube:



File measures				
Complexity			Duplicated Blocks	0
Cognitive Complexity	236		Duplicated Files	0
Cyclomatic Complexity	192		Duplicated Lines	0
			Duplicated Lines (%)	0.0%
Size			Maintainability	
Classes	2		Code Smells	24
Comment Lines	3		Effort to Reach Maintainability Rating A	0
Comments (%)	0.4%		Maintainability Rating	A
Files	1		Technical Debt	4h 52min
Functions	54		Technical Debt Ratio	1.3%
Generated Lines	0		Reliability	
Generated Lines of Code	0		Bugs	3
Lines	834		Reliability Rating	C
Lines of Code	739		Reliability Remediation Effort	25min
Statements	406		Security	
Security Review			Security Rating	A
Security Hotspots	1		Security Remediation Effort	0
Security Hotspots Reviewed	0.0%		Vulnerabilities	0
Security Review Rating	E			

## Before Edit In the Code according to test analisize Sonar qube:

File measures				
			unused	3
			redundant	2
			convention	1
			error-handling	1
			pitfall	1
			serialization	1
Issues			Duplications	
Blocker Issues	1		Duplicated Blocks	0
Confirmed Issues	0		Duplicated Files	0
Critical Issues	5		Duplicated Lines	0
False Positive Issues	0		Duplicated Lines (%)	0.0%
Info Issues	0		Coverage	
Issues	31		Coverage	0.0%
Major Issues	15		Line Coverage	0.0%
Minor Issues	10		Lines to Cover	475
Open Issues	31		Skipped Unit Tests	0
Reopened Issues	0		Uncovered Lines	475
Won't Fix Issues	0		Unit Test Errors	0
Size			Unit Test Failures	0
Classes	2		Unit Test Success (%)	100%

## File measures

unitimeV4.7-StaticAnalysis

JavaSource/org/unitime/timetable/api/connectors/VariableTitleCourseConnector.java

Lines 836  
Lines of Code 741  
Comment Lines 3  
Comments (%) 0.4%

Cognitive Complexity 237  
Cyclomatic Complexity 192

31 4h 59min

Issues Debt

🐛 Bug 5  
🛡️ Vulnerability 0  
🕸️ Code Smell 26

🚫 Blocker 1  
🔴 Critical 5  
🔴 Major 15  
🟢 Minor 10  
📘 Info 0

🐛 cert 11  
🐛 clumsy 8  
🐛 performance 6  
🐛 brain-overload 5  
🐛 cwe 5

0.0%  
Coverage

Uncovered Lines 475  
Lines to Cover 475

0.0%  
Duplications

Duplicated Blocks 0  
Duplicated Lines 0

Close

## File measures

Classes 2  
Comment Lines 3  
Comments (%) 0.4%  
Files 1  
Functions 54  
Generated Lines 0  
Generated Lines of Code 0  
Lines 836  
Lines of Code 741  
Statements 407

Reliability  
🐛 Bugs 5  
Reliability Rating C  
Reliability Remediation Effort 45min

Security  
Security Rating A  
Security Remediation Effort 0  
🛡️ Vulnerabilities 0

Unit Test Success (%) 100%

Maintainability  
🕸️ Code Smells 26  
Effort to Reach Maintainability Rating A 0  
Maintainability Rating A  
Technical Debt 4h 59min  
Technical Debt Ratio 1.3%

Complexity  
Cognitive Complexity 237  
Cyclomatic Complexity 192

Security Review  
Security Hotspots 1  
Security Hotspots Reviewed 0.0%  
Security Review Rating E

Close

# Over View Sonal Qube Analisize

<div>☆ <a href="#">unitimeV4.7-StaticAnalysis</a> <span>Passed</span></div> <div>Last analysis: 13 days ago</div>							
<div>Bugs</div> <div>969 <span>E</span></div>	<div>Vulnerabilities</div> <div>136 <span>E</span></div>	<div>Hotspots Reviewed</div> <div>0.0% <span>E</span></div>	<div>Code Smells</div> <div>51k <span>A</span></div>	<div>Coverage</div> <div>0.0% <span></span></div>	<div>Duplications</div> <div>12.6% <span></span></div>	<div>Lines</div> <div>543k <span>XL</span> Java, XML</div>	
<div>☆ <a href="#">unitimeV4.7-StaticAnalysis(After Edit)</a> <span>Passed</span></div> <div>Last analysis: 59 minutes ago</div>							
<div>Bugs</div> <div>967 <span>E</span></div>	<div>Vulnerabilities</div> <div>136 <span>E</span></div>	<div>Hotspots Reviewed</div> <div>0.0% <span>E</span></div>	<div>Code Smells</div> <div>51k <span>A</span></div>	<div>Coverage</div> <div>0.0% <span></span></div>	<div>Duplications</div> <div>12.6% <span></span></div>	<div>Lines</div> <div>543k <span>XL</span> Java, XML</div>	