

UNITIME

VERSION 4.8

Static analysis Report

2023-05-04

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INTRODUCTION

This document contains results of the code analysis of Unitime.


Unitime is a comprehensive educational scheduling system that supports developing course and exam timetables, managing changes to these timetables, sharing rooms with other events, and scheduling students to individual classes. It is a distributed system that allows multiple university and departmental schedule managers to coordinate efforts to build and modify a schedule that meets their diverse organizational needs while allowing for minimization of student course conflicts. It can be used alone to create and maintain a school's schedule of classes and/or exams, or interfaced with an existing student information system.

SYNTHESIS

ANALYSIS STATUS

Reliability	Security	Security Review	Maintainability
			

QUALITY GATE STATUS

Quality Gate Status	
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METRICS

Coverage	Duplication	Comment density	Median number of lines of code per file	Adherence to coding standard
0.0 %	12.6 %	3.0 %	68.5	92.3 %

TESTS

Total	Success Rate	Skipped	Errors	Failures
0	0 %	0	0	0

DETAILED TECHNICAL DEBT

Reliability	Security	Maintainability	Total
18d	5d 2h	1301d	1324d 2h 0min

METRICS RANGE

	Cyclomatic Complexity	Cognitive Complexity	Lines of code per file	Comment density (%)	Coverage	Duplication (%)
Min	0.0	0.0	3.0	0.0	0.0	0.0
Max	155,541	239,718	543,029	3.0%	0.0	12.6%

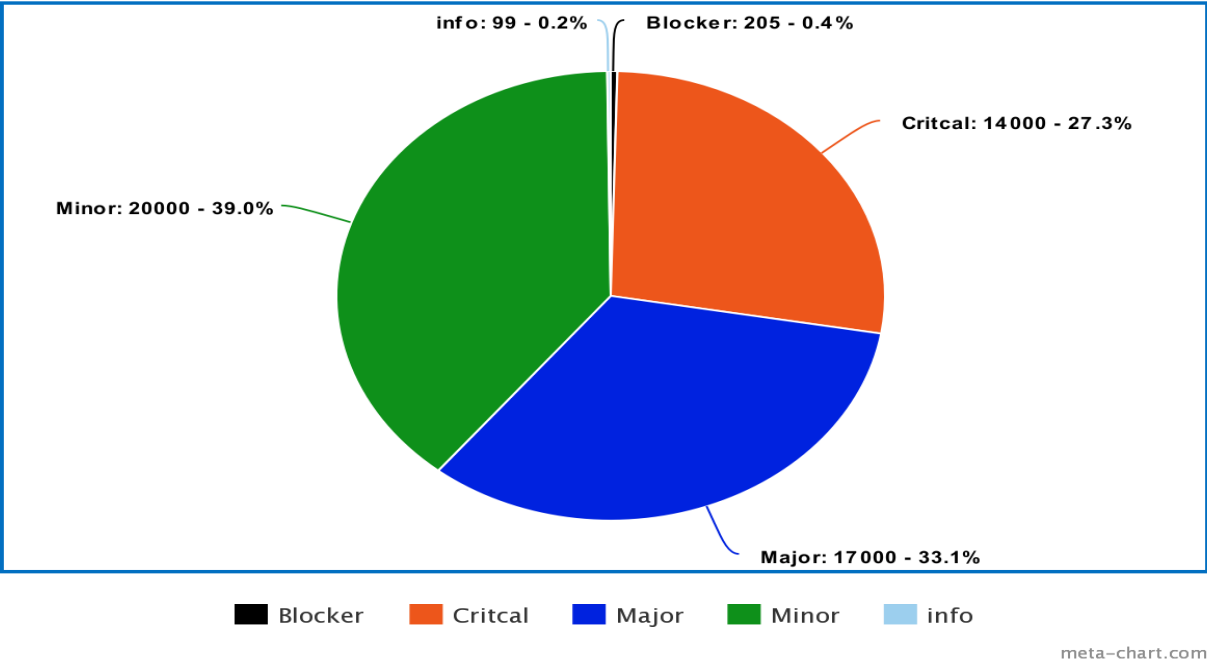
VOLUME LINE OF CODES

Language	Number
Java	516166
XML	26863
Total	543029

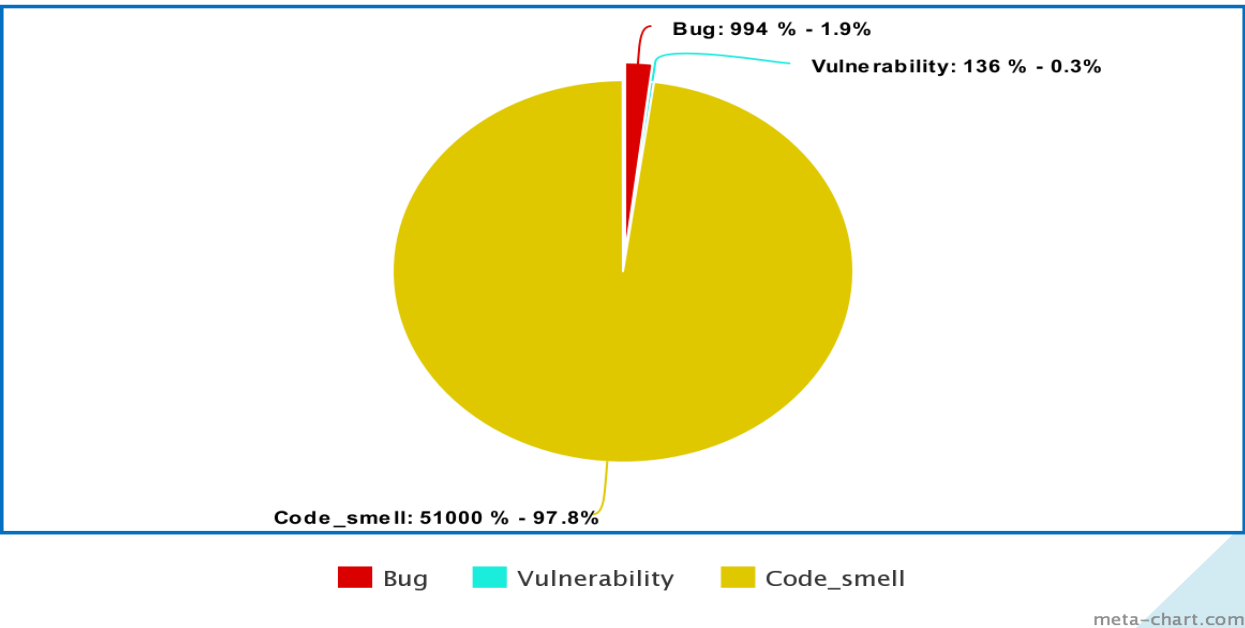
ISSUES

CHARTS

Issues Severity chart



Issues types chart



ISSUES COUNT BY SEVERITY AND TYPE

Type / Severity	INFO	MINOR	MAJOR	CRITICAL	BLOCKER
BUG	0	362	571	25	36
VULNERABILITY	0	100	0	4	32
CODE_SMELL	99	20k	17k	14k	137

SECURITY HOTSPOTS (472)

SECURITY HOTSPOTS COUNT BY CATEGORY AND PRIORITY

Category / Priority	LOW	MEDIUM	HIGH
Authentication	0	0	2
SQL Injection	0	0	267
Denial of Service (DoS)	0	21	0
Weak Cryptography	0	18	0
Insecure Configuration	139	0	0
Log Injection	20	0	0
Others	5	0	0