

Repository Report

 Repository: xmicha14/libpwquality

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1. Overall Ratings

The Gamma rating is a numeric representation of the quality of software code, ranging from -5.0 (worst) to +5.0 (best). See the Appendix section for a more in-depth breakdown or read more about ratings online at <https://help.mygamma.io/guides/gamma-score/>

2.73 Overall Rating

Total LOC	3,010
Executable LOC	1,501
Components	12
Hotspots	0

4.10 Design Issues

Component-Level Issues	
High	2
Med	2

Subcomponent-Level Issues	
Med	4
Info	2

0.89 Metrics

Number Of Public Attributes	4
Access To Foreign Data	3
Number Of Arguments	1
Number Of Methods	3
Complexity	2
Lack Of Cohesion Of Methods	6

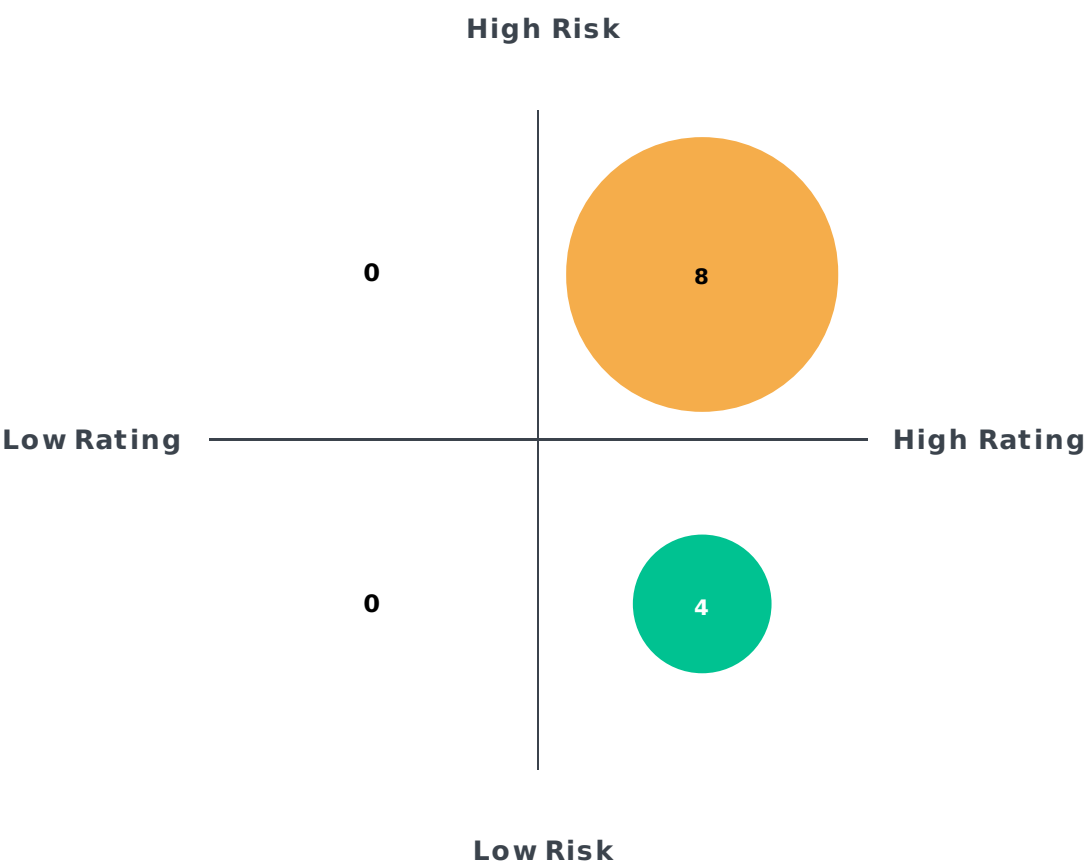
(5.00) Duplication

Clones	0
Average Clone Size	0
Duplicate Components	0
Duplicate LOC	0

(1.42) Code Issues

High	7
Medium	7
Low	129

2. Risk



Category	Count
<div>Fragile Components (Low Rating & High Risk)</div>	0
<div>Potential-Risk Components I (High Risk, But High Rating)</div>	8
<div>Potential-Risk Components II (Low Rating, But Low Risk)</div>	0
<div>Stable Components (Low Risk & High Rating)</div>	4

3. KPI Distribution

KPI	Issues
Maintainability	128
Security	1

4. Top 10 High-Risk Components

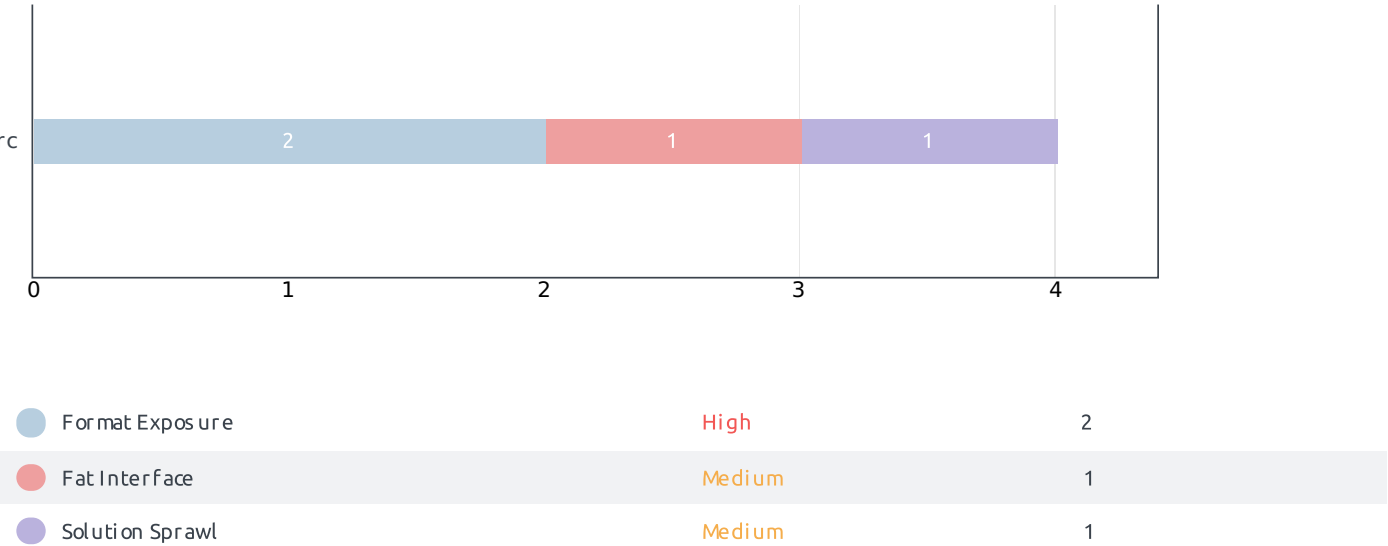
Component	Risk	Commits	Last Commit	Blocker*	Critical*	Major*
Module_options (Module_options)	5.00	14	1 Month Ago	0	0	0
{Pam_pwquality.c} (Entities@Src/Pam_pwquality.c)	5.00	14	1 Month Ago	0	0	0
{Pwquality.h} (Entities@Src/Pwquality.h)	4.87	23	1 Month Ago	0	0	0
{Settings.c} (Entities@Src/Settings.c)	4.87	23	1 Month Ago	0	0	0
{Check.c} (Entities@Src/Check.c)	3.42	19	1 Year Ago	0	0	0
(Anonymous Enum) (0)	3.42	19	1 Year Ago	0	0	0
Setting_mapping (Setting_mapping)	3.29	11	1 Month Ago	0	0	0
Pwquality_settings (Pwquality_settings)	3.29	11	1 Month Ago	0	0	0
{Pwquality.c} (Entities@Python/Pwquality.c)	2.11	11	3 Years Ago	0	0	0
{Pwscore.c} (Entities@Src/Pwscore.c)	1.56	8	1 Year Ago	0	0	0

*Number of Jira tasks affected by component (Jira plugin required)

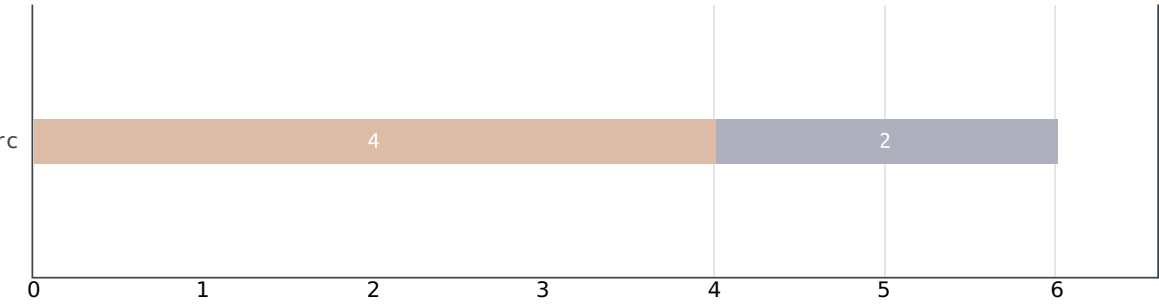
5. Worst Components

Component	Overall rating
{pwquality.h} (Entities@src/pwquality.h)	1.76
{check.c} (Entities@src/check.c)	2.39
{pwquality.c} (Entities@python/pwquality.c)	3.64
{settings.c} (Entities@src/settings.c)	3.94
{pam_pwquality.c} (Entities@src/pam_pwquality.c)	4.12
{pwscore.c} (Entities@src/pwscore.c)	4.28
{pwmake.c} (Entities@src/pwmake.c)	4.55
{generate.c} (Entities@src/generate.c)	4.57
pwquality_settings (pwquality_settings)	4.95
setting_mapping (setting_mapping)	4.95
module_options (module_options)	4.99
(anonymous enum) (0)	5

6. Component-Level Design Issues

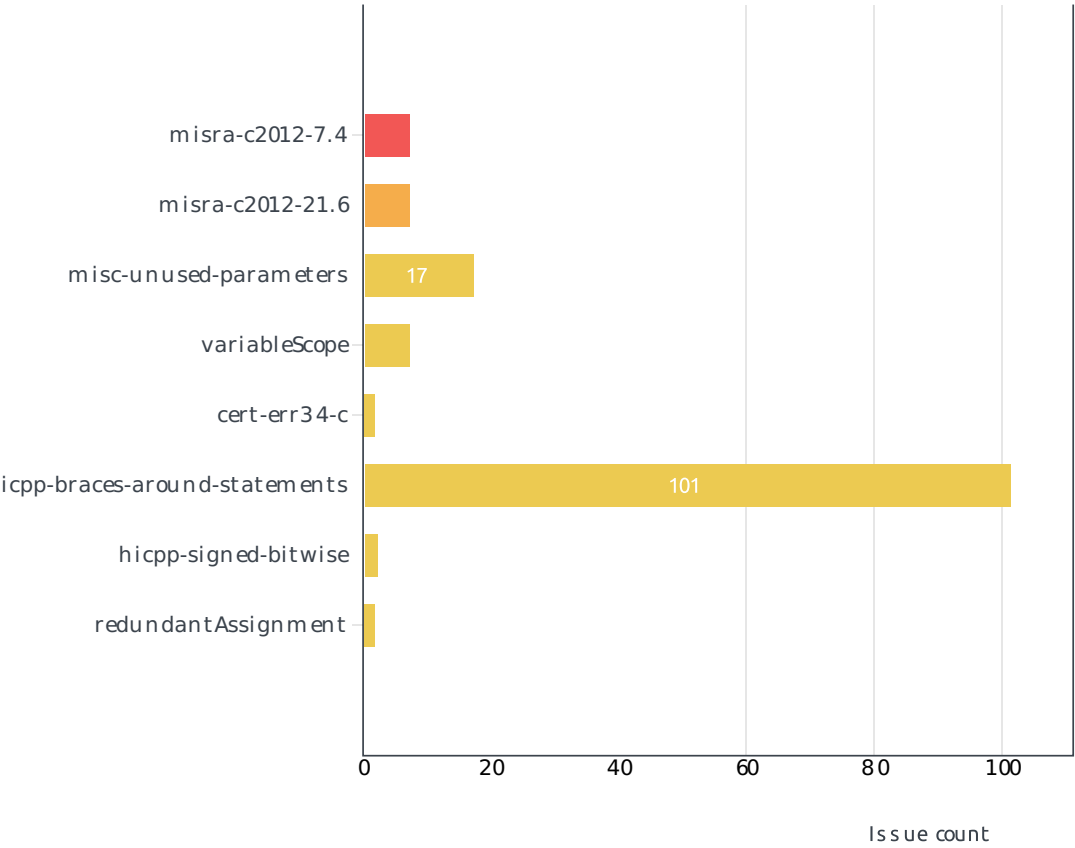


7. Method-Level Design Issues



<div></div> Feature Envy	Medium	4
<div></div> Test Hungry	Info	2

8. Code Issues



High	7
Medium	7
Low	129

9. Appendix

Understanding the Gamma Rating

The Gamma rating is a numeric representation of the quality of software code, ranging from -5.0 (worst) to +5.0 (best). See the diagram below for further interpretation

- 4.0 or Greater** Indicates good system quality.
- 2.0 - 4.0** Indicates overall good health, with some localised issues to be cautious of.
- 1.0 - 2.0** Indicates some issues, usually localised to specific hotspots.
- 0.0 - 1.0** Indicates major issues across multiple hotspots.
- 5.0 - 0.0** Indicates severe, system-wide issues.

Read more about ratings at <https://help.mygamma.io/>

Helpful Resources (Online)

Topic	URL
Gamma Reference Guide	https://help.mygamma.io/
Anti-Patterns	https://help.mygamma.io/guides/gamma-score/