

**Sri Lanka Institute of Information Technology**

**Group Assignment**

Software Engineering Process & Quality Management (SE 3010)

Year 03 Semester 01 – 2017

Group ID : 03 (WE Batch)

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**Static Code Analysis - Kiuwan**

**Introduction to tool**: - Kiuwan is a static code analysis tool for code quality management which is offered as software as a service (SaaS) product. [1]

**Download and configuration details: -** Need to visit: - [2]

Basically, two download options

1. Free trial: - If it is for non-business purpose, have to go with the Github free repo which can be used as a free open source software. For scanning our code base, it should be in the same Github account.
2. Local analyser

**Usage of Tool: -** [3]

* CIOs need this to make strategic decisions to improve software development.
* ForQA managersand engineers who need actual state of applications under development.
* CSOs to tackle security from the application perspective.
* Project managers can know the health of the projects from a technical perspective.
* Application architects can discover structural flaws early in the development process.
* Developers want this to develop the best software possible and learn as much as possible in the process.

**Strengths and weaknesses**: -

* It has the right information to the right stakeholder in the IT department. [3]
* Supports for all major programming languages like Java, C/C++, JavaScript, PHP, C#, .NET, VB, Objective-C, Cobol, SQL, etc. [1]

**User Reviews of the tool**: - [4]

**Snapshots of tool usage using selected code samples:-**

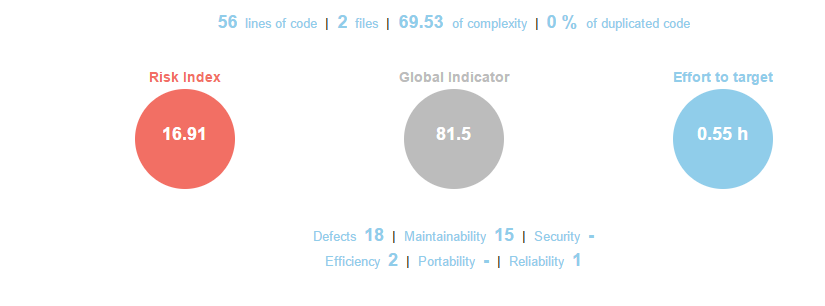
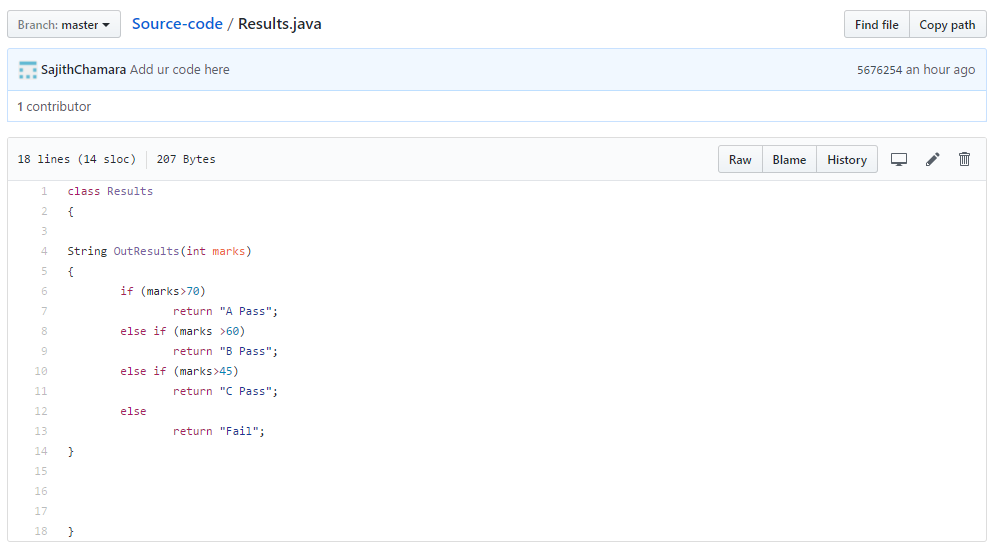


Figure 2:- Kiuwan report

Figure 1:- Results.java in Github

**References**

[1]"Technical Debt Computation: Comparison Of Top Tools". *Build Blog by ThinkApps | Content on Entrepreneurship, Mobile Apps, Web Platforms and more*. N.p., 2017. Web. 20 May 2017.

[2]"Software Analytics Platform - Kiuwan". *Kiuwan*. N.p., 2017. Web. 20 May 2017.

[3]"Who Is It For? - Kiuwan - Kiuwan Documentation". *Kiuwan.com*. N.p., 2017. Web. 20 May 2017.

[4] "Product Review For Kiuwan". Itcentralstation.com. N.p., 2017. Web. 20 May 2017.