

**Sri Lanka Institute of Information Technology**

**Group Assignment**

Software Engineering Process & Quality Management (SE 3010)

Year 03 Semester 01 – 2017

Submitted by:

1. IT 14098888 - S.C.G. Liyanage
2. IT 14084614 - D.A. Polwattage
3. IT 14104640 - S.R. Rajapakse
4. IT 15068774 - A.P.I.R. Jayathilaka

Submitted to:

…………………………..

Mr. Indraka Udayakumara / Mr. Saman Gunawardena

20-05-2017

**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:-**

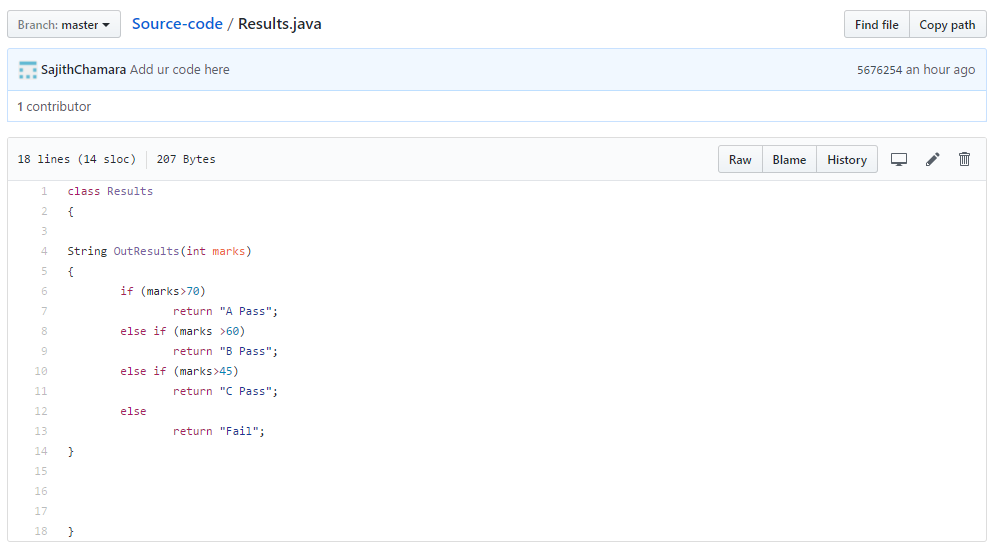


Figure 1:- Results.java in Github

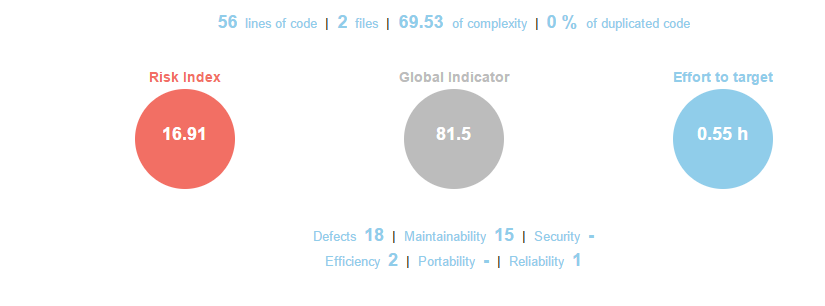


Figure 2:- Kiuwan report

**References**

[1] <http://thinkapps.com/blog/development/technical-debt-computation-top-tools/>

[2] <https://www.kiuwan.com/>

[3] <https://www.kiuwan.com/docs/pages/viewpage.action?pageId=12189824>

[4] <https://www.itcentralstation.com/products/kiuwan>