**Django Web Framework Software Metrics Measurement Using Radon and Pylint**

Nowadays, sites are complex applications that carry out transactions, render real-time information and offer interaction. Creation of web applications that allow many designers, advanced tools, and many more options. Web frameworks deliver a brilliant way between creating an application from the ground and using a content management system. This article centers around an open source web development framework, to be specific to Django. The methodology that used in the study is measuring Django Web Frameworks code quality metrics using Radon and Pylint. Django option in the main directory has 2,200 lines of code, Cyclomatic Complexity score is 16.375 considered as average complexity, and 6.69/10 by the pylint score.

**EXISTING SYSTEM:**

Flask framework is a Python micro-framework with a moderate approach and powerful by itself. Flask perfect for stand-alone applications and rapid prototyping. Pyramid known as Pylons is a framework that gives reproducibility with NoSQL integration. Pyramid best for APIs, prototyping, and extensive web apps, like content management systems development. Tornado is an event-based, non-blocking Python web server and web application framework serve high-traffic volume. The Bottle is a light and simple microframework.

**DISADVANTAGES OF EXISTING SYSTEM:**

* There will be times as a software developer when a programmer works on projects that do not have unit tests, a daily build, a mess of legacy spaghetti code
* Lines of code (LOC) are the most simple indicators and warnings. A massive, complicated project will have hundreds of thousands of LOC and that normal if the project is well-managed.

**PROPOSED SYSTEM:**

Django Reinhardt is used as the framework name Django is a framework for web development using python and created for the quick development of database driven sites. Inside Django is MVC-style, a high-level, open source bunch of libraries programmed in Python. Django is the most popular server-side web frameworks. Don’t repeat yourself is Django’s motto. As much as Python, it focuses inefficiency, giving developer to do almost all tasks with as little coding effort as possible.

**ADVANTAGES OF PROPOSED SYSTEM:**

* LLOC The variety of logical strains of code. Each logical line of code contains precisely one statement.
* SLOC The quantity of source lines of code. It does not relate to the LLOC.
* LOC The aggregate number of lines of code. It doesn't relate to the number of lines in the file.
* Multi The number of lines that represent multiline strings.
* Comments The number of comment lines. Multiline strings are not considered comment, to the Python, they are just strings.

**SYSTEM REQUIREMENTS:**

**HARDWARE REQUIREMENTS:**

* System : Pentium Dual Core.
* Hard Disk : 500 GB.
* Monitor : 15’’ LED
* Input Devices : Keyboard, Mouse
* Ram : 1GB.

**SOFTWARE REQUIREMENTS:**

* Operating system : Windows 7.
* Coding Language : Python
* Tool : PyCharm, Visual Studio Code
* Database : MYSQL

**REFERENCE:**

Suryadiputra Liawatimena Computer Science Department BINUS Graduate Program - Doctor of Computer Science, “**Django Web Framework Software Metrics Measurement Using Radon and Pylint**”, 2018 Indonesian Association for Pattern Recognition International Conference (INAPR) IEEE Xplore: 28 January 2019, DOI: 10.1109/INAPR.2018.8627009