Individual Assignment (5%)

Create 3 projects on Embold then compare and show the analysis and rating of your projects from four sub-ratings: Design (anti-pattern), Duplication, and Code Quality (code issues) for all components (functions or classes) and then aggregated for packages (or modules) and for the overall repository.

Use key performance indicators such as analyzability, robustness, security, usability,conceptual Integrity, efficiency, functionality, maintainability, portability and reliability.

Note: -

1. use GitHub as a repository standard.

2. Your projects should be unique.

Document Format

1. Introduction
   * Document overview
   * Abbreviations and Glossary
     + Abbreviations
     + Glossary
   * Project Descriptions(programming/scripting languages used,number of ELOC/NELO,GitHub URL)
     + - Introduction-to-JavaScript
       - Memcached-Java-Client
       - Complete-JavaScript-course

Overview of Static Code Analysis Results

2.1 Overall rating

-Introduction-to-JavaScript : **1.41**

-Memcached-Java-Client : **0.37**

-Complete-JavaScript-course : **-0.04**

2.2 Analysis Results

2.2.1. VULNERABILITIES

– Introduction-to-JavaScript

-Memcached-Java-Client project is 6 vulnerabilities per 1,000 ELOC

-Complete-JavaScript-course

2.2.2. CODE ISSUES

• CODE ISSUES

– Introduction-to-JavaScript

• Criticality

• Language

• KPIs

-Memcached-Java-Client

• Criticality

• Language

• KPIs

-Complete-JavaScript-course

• Criticality

• Language

• KPIs

2.2.3. ANTI-PATTERNS

– Introduction-to-JavaScript

• Criticality

• Language

• KPIs

-Memcached-Java-Client

• Criticality

• Language

• KPIs

-Complete-JavaScript-course

• Criticality

• Language

• KPIs

2.2.4. DUPLICATION

– Introduction-to-JavaScript

• Occurrences

• Files

• Issue

 Issue Type

 Language

 Duplicated code

 Duplication Map

-Memcached-Java-Client

• Occurrences

• Files

• Issue

 Issue Type

 Language

 Duplicated code

 Duplication Map

- Complete-JavaScript-course

• Occurrences

• Files

• Issue

 Issue Type

 Language

 Duplicated code

 Duplication Map

3. KPI Summary

– Introduction-to-JavaScript

-Memcached-Java-Client

-Complete-JavaScript-course