# **SWE**

# Assignment-3

# **Group Members**

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Bsef20a036	Aiza

# **Assignment -3**

# **Tasks**

- 1. Download the ARGOUML Source Code in 3 different Programming Languages
- 2. <a href="https://github.com/argouml-tigris-org">https://github.com/argouml-tigris-org</a>
- 3. Provide the Code Quality Results from using three different tools of ARGOUML
- 4. Provide Feature Information Reported
- 5. Provide Bugs issues
- 6. Provide Project Release Report
- 7. Provide common Pattern available in All Releases

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Download the ARGOUML Source Code in 3 different Programming Languages

Argouml-Java

Argouml-Cpp

Argouml-Csharp

Task: 2

Provide the Code Quality Results from using three different tools of ARGOUML

No#	Tools	Description
1	Code scene	Code health-Prioritize technical debt
		2. Red code, Yellow code, Green Code
		3. Hotspot code health, Average code health
		4. Worst performer
2	Codacy	1. Code pattern
		2. Issues of each files
		3. Issue, cyclomatic complexity, Duplication
		4. Coverage
3	Code Factor	Gave actionable refactoring tip
		2. Issue of each files
		3. Complexity, code style, maintainability
4	Codeac	1. Technical Debt
		2. Code errors, code warning, issues
		3. Feedback
		4. Code duplication between files
5	DeepSource	1. Bug risk, coverage, security, code style, performance
		2. Anti-pattern
		3. Auto fix
		4. Code health

# Repository 1: Argouml-SWE-Assignment3-Cpp

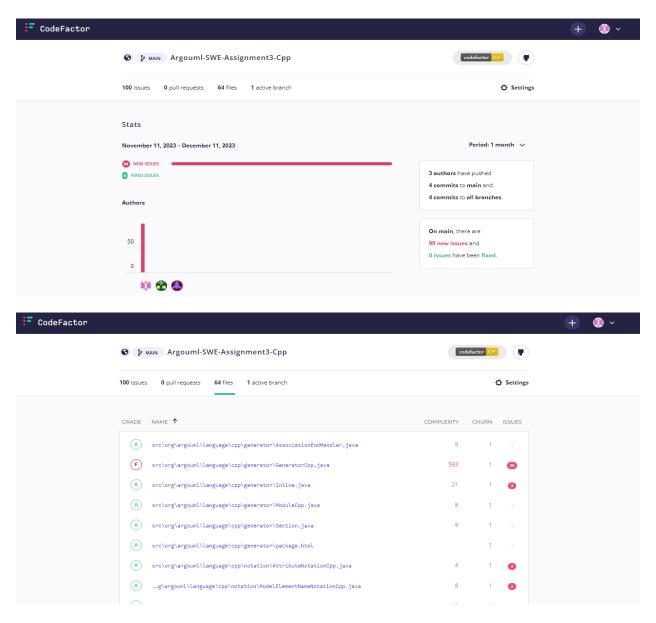
#### Argouml-Cpp

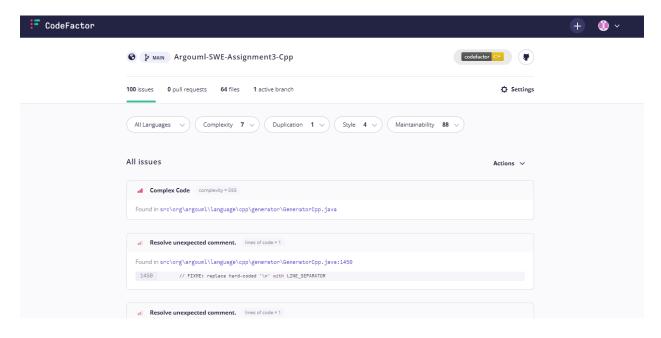
#### Tools:

1. deep source: deepsource report

codescene : <u>code-health-report</u> (drive link)
 codacy : <u>codacy badger</u> (save in read me)
 codeac : <u>codeac Badger</u> (save in read me)

5. codefactor





Repository 2: Argouml-SWE-Assignment3-Java

#### Argouml-Java

#### Tools:

- 1. deep source: <u>deepsource report</u> (<u>issue</u>)
- 2. codescene: code-health-report java(drive link)
- 3. codacy : codacy badge (save in read me)
- 4. codeac :codeac badge (save in read me)

# Repository 3: Argouml-SWE-Assignment3-Csharp

#### **Argouml-Csharp**

#### Tools:

- 1. codescene: code-health-report csharp(drive link)
- 2. codacy : codacy badge(save in read me)
- 3. codeac : codeac badge (save in read me)

Provide Feature Information Reported

**ArgoUML Features:** <a href="https://argouml-tigris-org.github.io/tigris/argouml/features.html">https://argouml-tigris-org.github.io/tigris/argouml/features.html</a>

ArgoUML provides the following features.

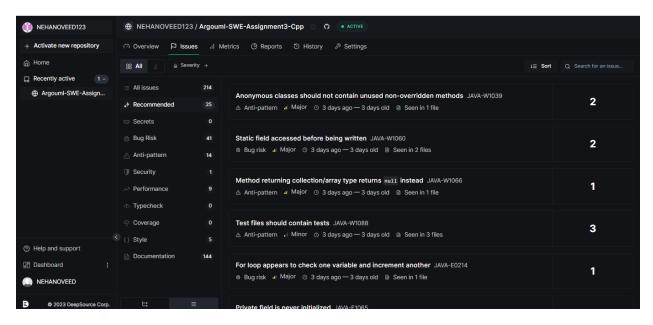
- 1. Support for all 9 UML 1.4 Diagrams
- 2. Platform-independent, compatible with Java 5+
- 3. Easy installation via Java Web Start
- 4. Standard UML 1.4 Metamodel compliance
- 5. UML Profile support with provided profiles for Java, C++, and UML 1.4
- 6. XMI Support for easy interchange with other tools
- 7. Export diagrams in various formats, including GIF, PNG, PS, EPS, PGML, and SVG
- 8. Internationalization in ten languages
- 9. Advanced diagram editing and zoom features
- 10. OCL (Object Constraint Language) support for constraint modeling
- 11. Forward and reverse engineering capabilities
- 12. Cognitive support, design critics, and corrective automations
- 13. "To Do" list for organizing and managing tasks
- 14. User model for tailoring suggestions based on the designer's context
- 15. Checklists for design reviews
- 16. Explorer perspectives with customizable rules
- 17. Multiple, overlapping views for a comprehensive understanding of complex designs

#### Provide Bugs issues

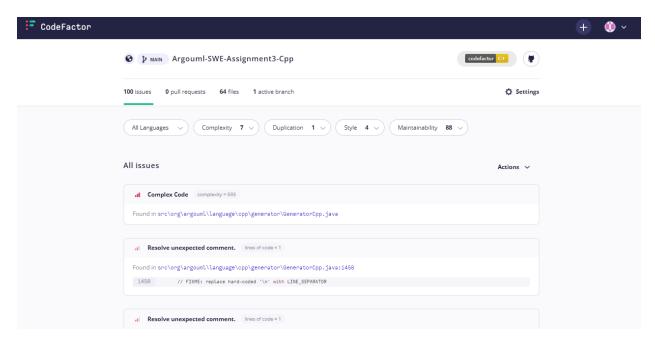
Issues before making clone <a href="https://github.com/argouml-tigris-org/argouml/issues">https://github.com/argouml-tigris-org/argouml/issues</a>

# Repository 1: Argouml-SWE-Assignment3-Cpp

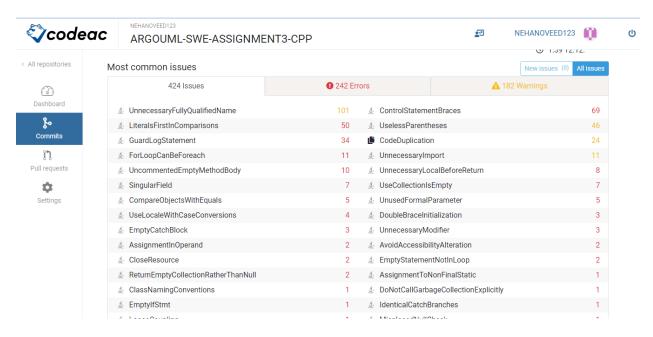
deep source:



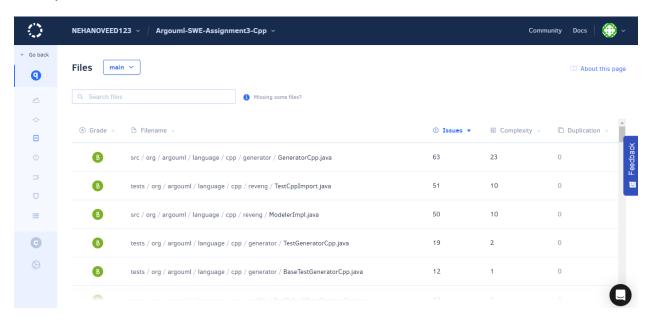
#### Code factor:



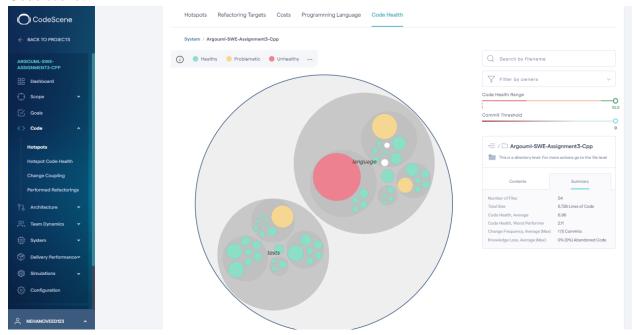
#### Codeac:



#### Codacy:

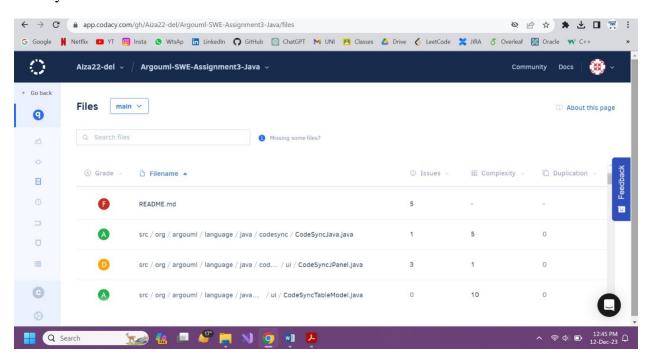


#### Code scene:

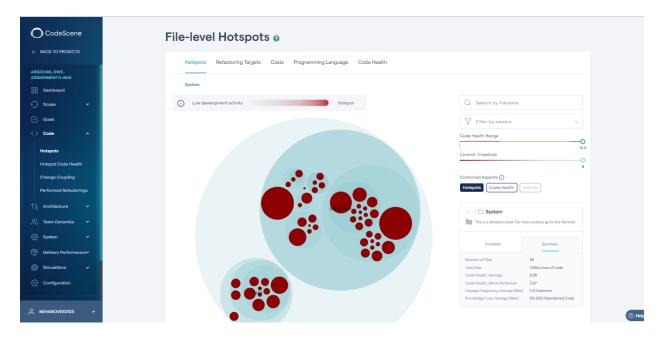


**Repository 2: Argouml-SWE-Assignment3-Java** 

# Codacy:

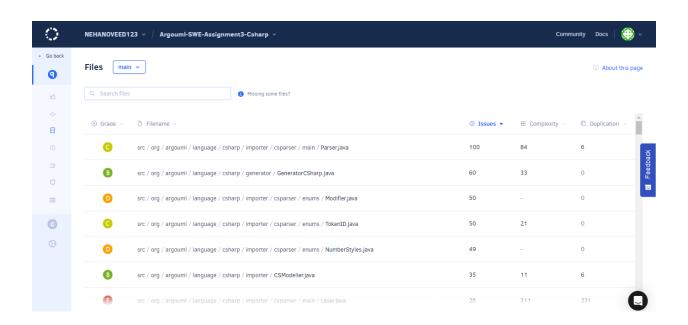


#### CodeScene:

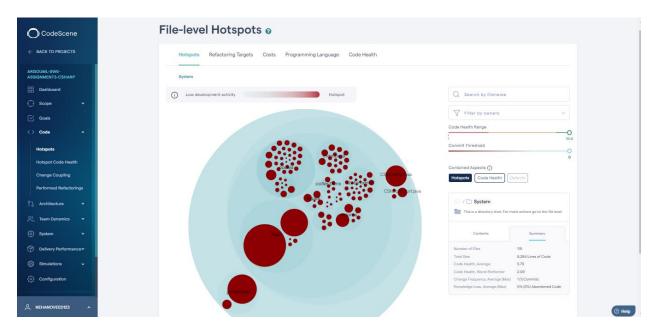


Repository 3: <u>Argouml-SWE-Assignment3-Csharp</u>

# Codacy:



# Code scene:



Provide Project Release Report

Using wiki page of Argouml <a href="https://github.com/argouml-tigris-org/argouml/wiki">https://github.com/argouml-tigris-org/argouml/wiki</a>

https://github.com/argouml-tigris-org/argouml/releases

• Releases: <a href="https://github.com/argouml-tigris-org/argouml/releases">https://github.com/argouml-tigris-org/argouml/releases</a> (old from the work done at tigris). The <a href="https://github\_IMPORT release">GITHUB\_IMPORT release</a> contains a dump of all old issues.

Release tags of each repository before clone

argouml-cpp/tags

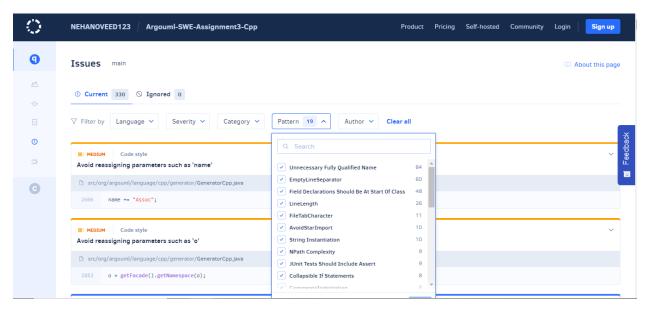
argouml-java/tag

argouml-csharp/tags

# Task: 6

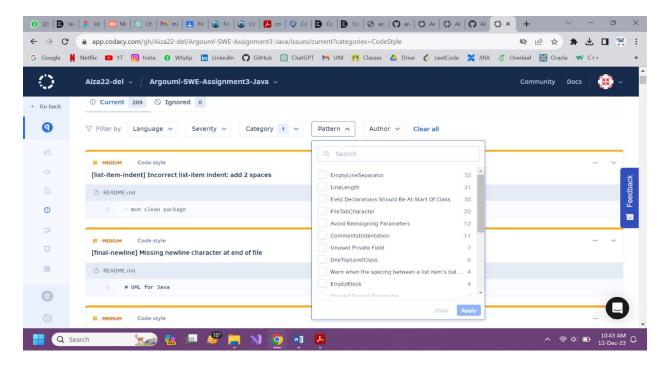
Provide common Pattern available in All Releases

Cpp <u>pattern - codacy tools</u>



# Repository 2: Argouml-SWE-Assignment3-Java

#### codacy java patterns



# Repository 3: Argouml-SWE-Assignment3-Csharp

#### Codacy Pattern csharp

