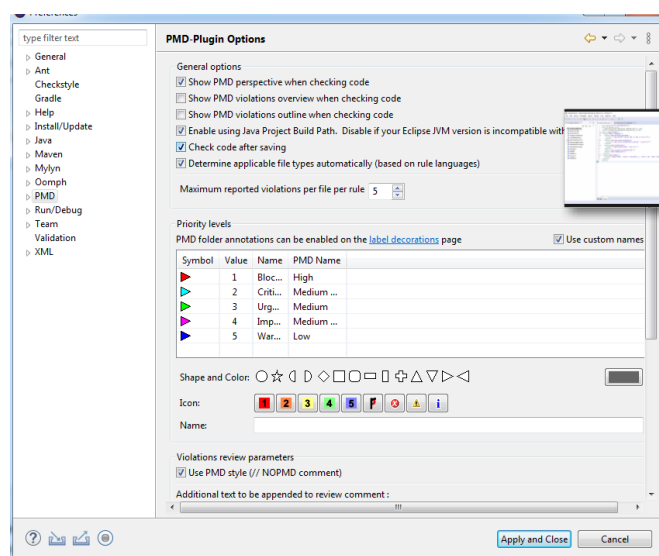
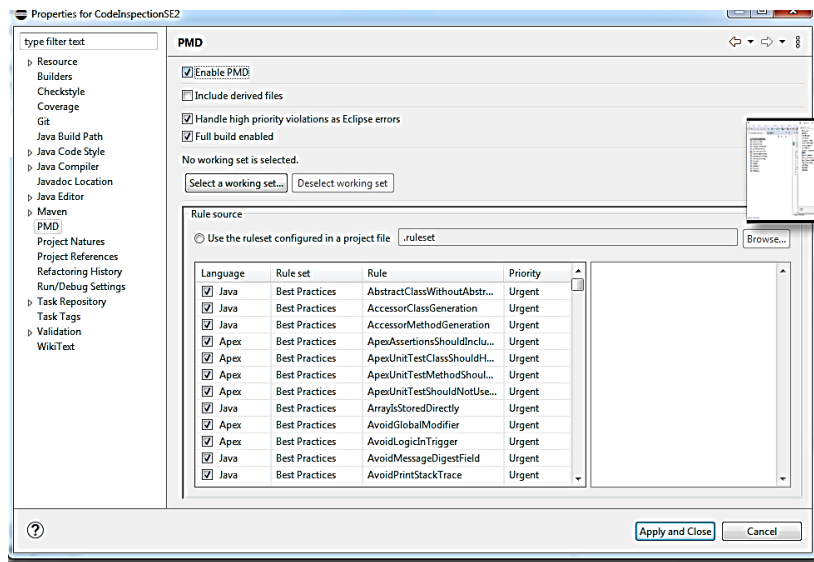
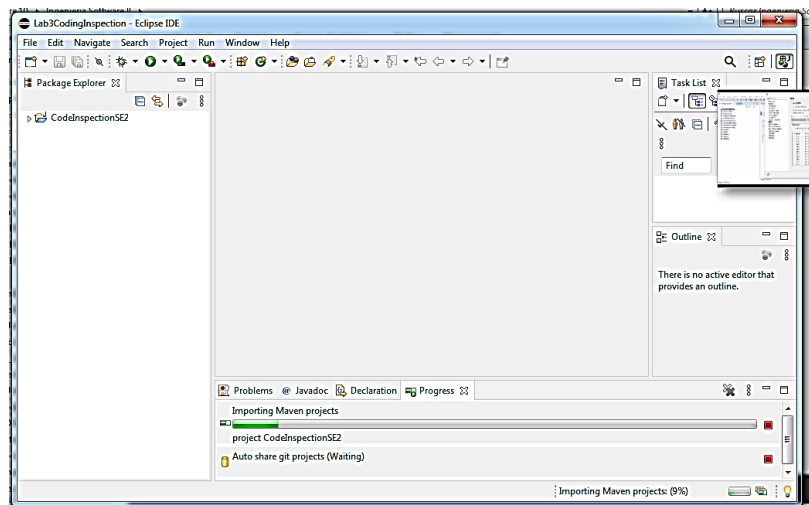


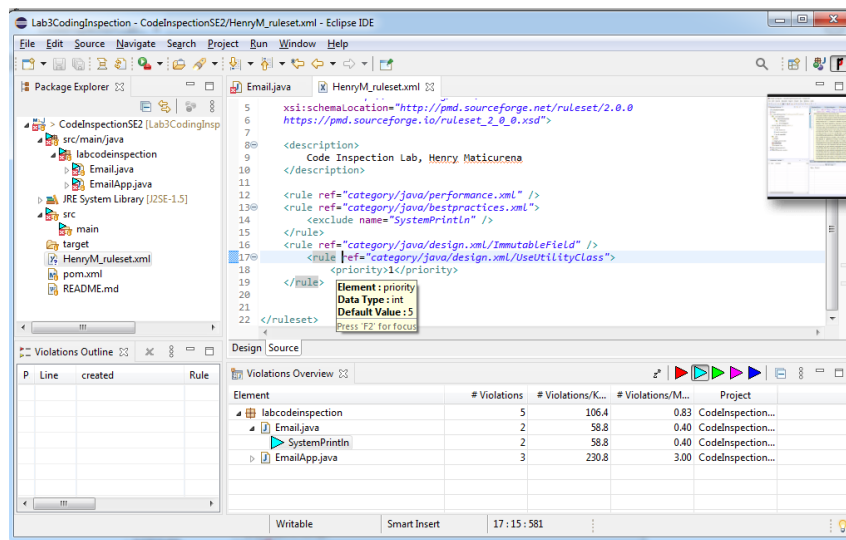
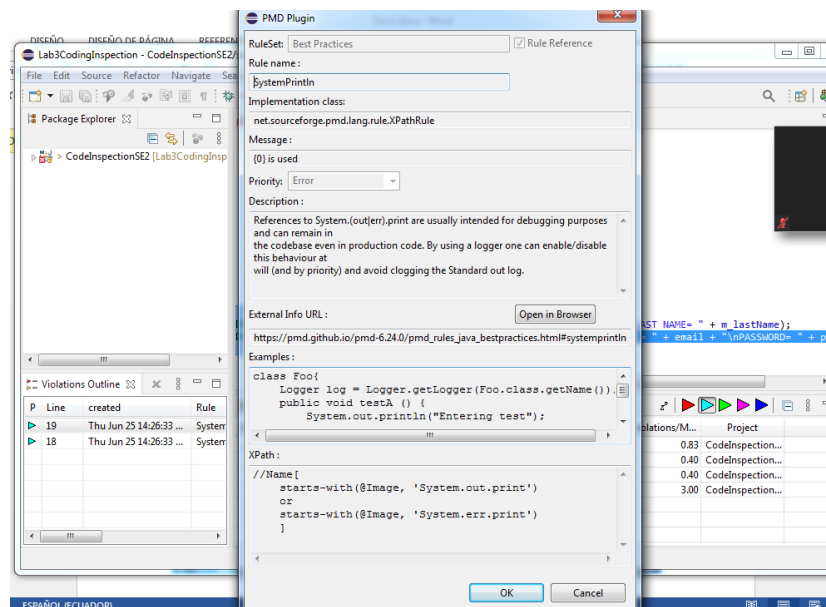
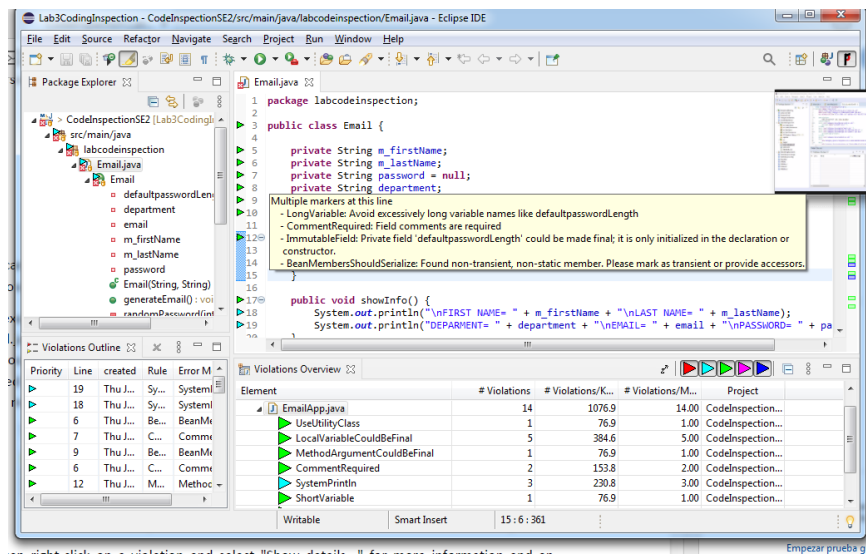
WORKSHOP

Screenshots of the activity to learn how to work with checkstyle.



Henry Maticurena

Software Engineering II



Henry Maticurena
Software Engineering II

WhatsApp

Preferences

Import rules

Select a default ruleset or browse to an external one:
C:\Users\Usuario\Desktop\Espol\Semestre 10\Ingenieria Software II\LABS3\

Import by Reference Import by Copy

| Rule | Language |
|----------------------------------|--------------------------|
| AddEmptyString | LanguageModule:Java/Java |
| AppendCharacterWithChar | LanguageModule:Java/Java |
| AvoidArrayLoops | LanguageModule:Java/Java |
| AvoidFileStream | LanguageModule:Java/Java |
| AvoidInstantiatingObjectsInLoops | LanguageModule:Java/Java |
| AvoidUsingShortType | LanguageModule:Java/Java |
| BigIntegerInstantiation | LanguageModule:Java/Java |
| BooleanInstantiation | LanguageModule:Java/Java |

OK Cancel

configuration

Global rule management

Global rule management is enabled, you can deactivate rules here globally. This is in order to ignore some rules temporarily. This setting overrides project-specific settings.

Rules grouped by Rule set Active rules: 0 / 0

| Rule set / Rule | Type | Language |
|-----------------|------|----------|
|-----------------|------|----------|

Apply and Close Cancel

Lab3CodingInspection - CodeInspectionSE2\HenryM_ruleset.xml - Eclipse IDE

Package Explorer

CodeInspectionSE2 [Lab3CodingInsp
src/main/java
labcodeinspection
Email.java
EmailApp.java
JRE System Library [JSE-1.5]
src
main
target
HenryM_ruleset.xml
pom.xml
README.md

Violations Outline

Design Source

Violations Overview

Element

Violations

Violations/K...

Violations/M...

Project

Email.java

SwitchStmtsShouldHaveDefault

1

294

0.20

CodeInspection...

RedundantFieldInitializer

1

294

0.20

CodeInspection...

ImmutableField

3

88.2

0.60

CodeInspection...

EmailApp.java

1

76.9

1.00

CodeInspection...

UseUtilityClass

1

76.9

1.00

CodeInspection...

EmailApp.java

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76.9

1.00

CodeInspection...

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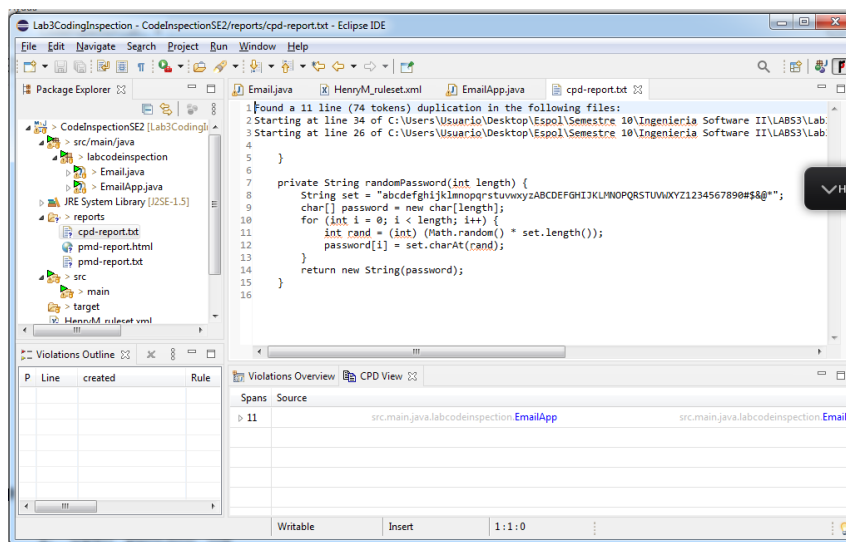
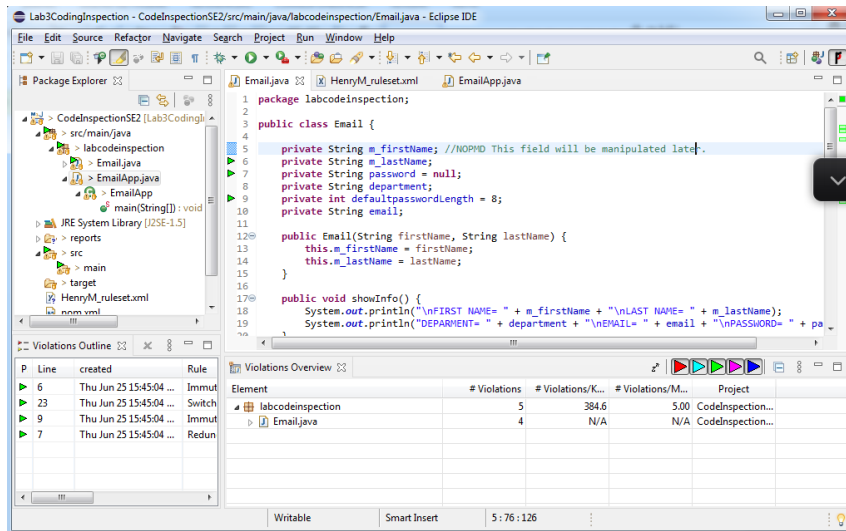
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Henry Maticurena

Software Engineering II



Violations By Priority

Priority 3

labcodeinspection/Email.java

| Rule | Violation | Line |
|------------------------------|----------------------------------------------------------------------------------------------------------------------|-------|
| ImmutableField | Private field 'm_lastName' could be made final; it is only initialized in the declaration or constructor. | 6 |
| RedundantFieldInitializer | Avoid using redundant field initializer for 'password' | 7 |
| ImmutableField | Private field 'defaultpasswordLength' could be made final; it is only initialized in the declaration or constructor. | 9 |
| SwitchStmtsShouldHaveDefault | Switch statements should have a default label | 23-33 |

Files

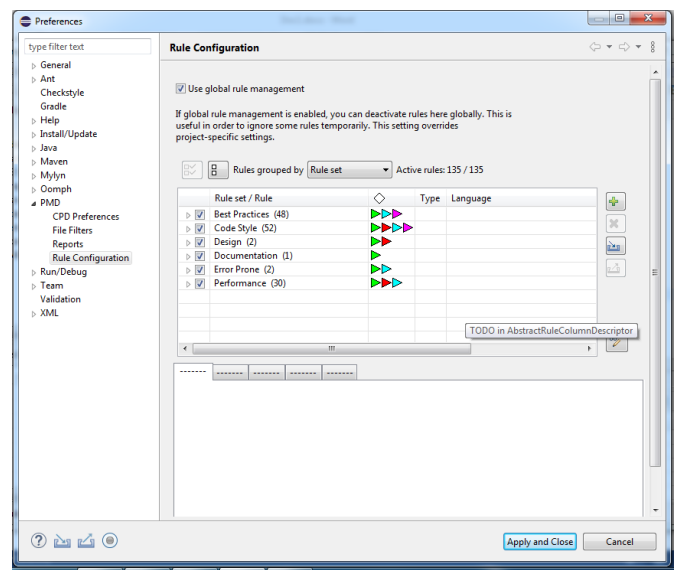
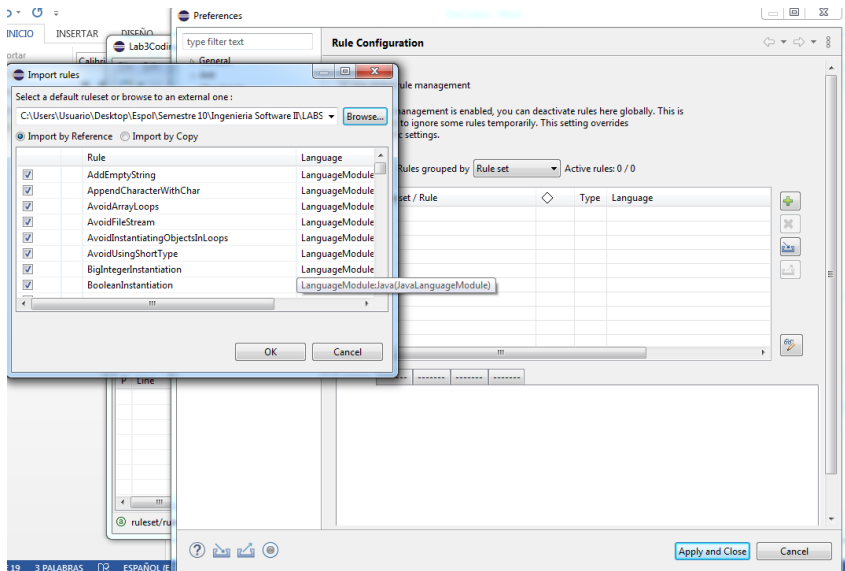
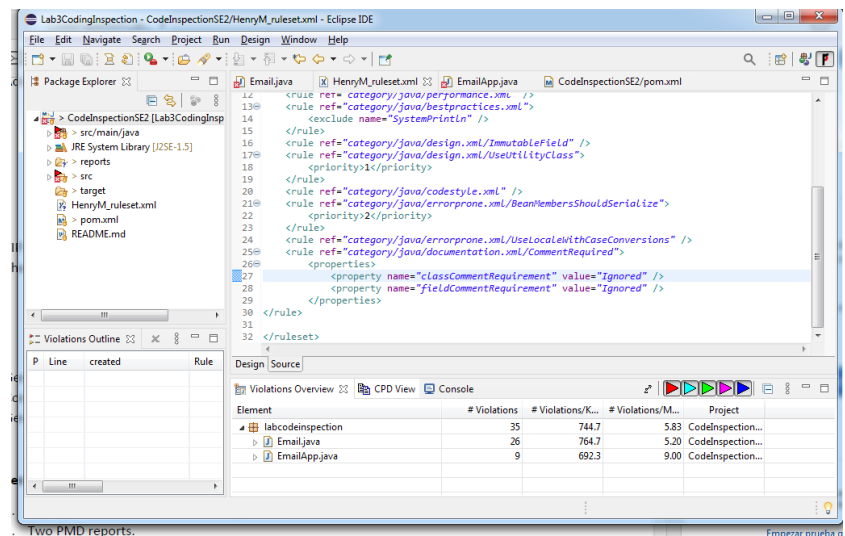
labcodeinspection/Email.java

| Rule | Violation | Priority | Line |
|------------------------------|----------------------------------------------------------------------------------------------------------------------|----------|-------|
| ImmutableField | Private field 'm_lastName' could be made final; it is only initialized in the declaration or constructor. | 3 | 6 |
| RedundantFieldInitializer | Avoid using redundant field initializer for 'password' | 3 | 7 |
| ImmutableField | Private field 'defaultpasswordLength' could be made final; it is only initialized in the declaration or constructor. | 3 | 9 |
| SwitchStmtsShouldHaveDefault | Switch statements should have a default label | 3 | 23-33 |

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Screenshots of the workshop about the modules added and the code changed so that the errors provided are eliminated.

BEFORE DE CORRECTION



Henry Maticurena
Software Engineering II

Lab3CodingInspection - file:///C:/Users/Usuario/Desktop/Espol/Semestre%2010/Ingenieria%20Software%20II/LAB3/Lab3CodingInspection/CodeInspectionSE2/repor...

File Edit Navigate Search Project Run Window Help

Package Explorer

src/main/java/labcodeinspection/Email.java

Violations Outline

Violations Overview

CPD View

Console

13 src/main/java/labcodeinspection/Email.java 7 BeanMembersShouldSerialize: Found non-transient, non-static member. Please mark as transient or provide accessors.

14 src/main/java/labcodeinspection/Email.java 7 BeanMembersShouldSerialize: Found non-transient, non-static member. Please mark as transient or provide accessors.

15 src/main/java/labcodeinspection/Email.java 7 RedundantFieldInitializer: Avoid using redundant field initializer for 'password'

16 src/main/java/labcodeinspection/Email.java 7 RedundantFieldInitializer: Avoid using redundant field initializer for 'password'

17 src/main/java/labcodeinspection/Email.java 8 BeanMembersShouldSerialize: Found non-transient, non-static member. Please mark as transient or provide accessors.

18 src/main/java/labcodeinspection/Email.java 8 BeanMembersShouldSerialize: Found non-transient, non-static member. Please mark as

| Element | # Violations | # Violations/K... | # Violations/M... | Project |
|-------------------|--------------|-------------------|-------------------|-------------------|
| labcodeinspection | 35 | 744.7 | 5.83 | CodeInspection... |
| Email.java | 26 | 764.7 | 5.20 | CodeInspection... |
| EmailApp.java | 9 | 692.3 | 9.00 | CodeInspection... |

WhatsApp

Lab Code Inspection - PMD Re: x

Documentation | PMD Source C x

Nueva pestaña

Lab Code Inspection - PMD Re: x

Archivo

C:/Users/Usuario/Desktop/Espol/Semestre%2010/Ingenieria%20Software%20II/LAB3/Lab3CodingInspection/CodeInspectionSE2/target...

Aplicaciones

El teorema Katherin...

Facebook - Entra o...

Sci-Hub: removing...

Compiler Explorer

Express Admin

Build a Basic CRUD...

TensorFlow

Otros marcadores

Violations By Priority

Priority 1

labcodeinspection/Email.java

| Rule | Violation | Line |
|------------------------|----------------------------------------------------------------|------|
| FieldNamingConventions | The field name 'm_firstName' doesn't match '[a-z][a-zA-Z0-9]*' | 5 |
| FieldNamingConventions | The field name 'm_lastName' doesn't match '[a-z][a-zA-Z0-9]*' | 6 |

labcodeinspection/EmailApp.java

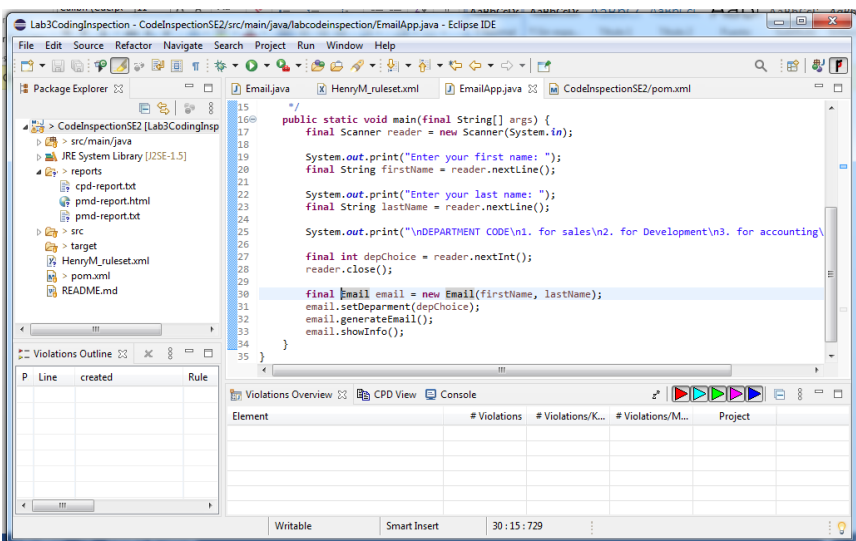
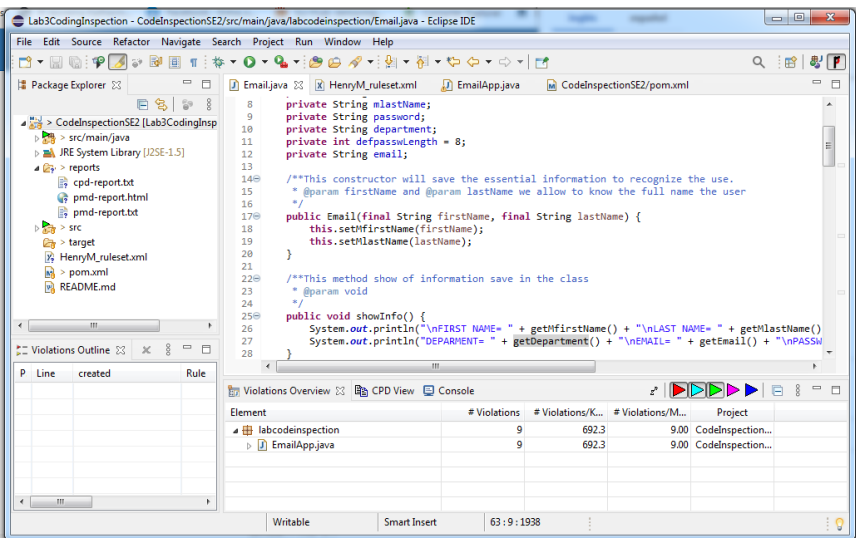
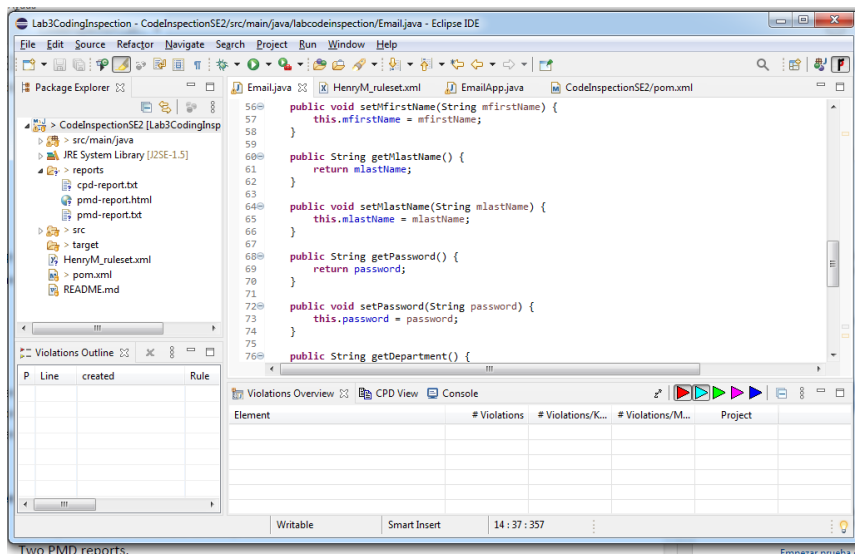
| Rule | Violation | Line |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| UseUtilityClass | All methods are static. Consider using a utility class instead. Alternatively, you could add a private constructor or make the class abstract to silence this warning. | 6-27 |

Priority 2

labcodeinspection/Email.java

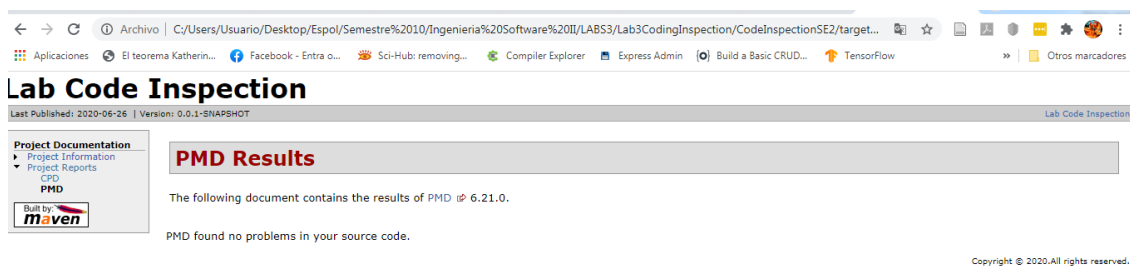
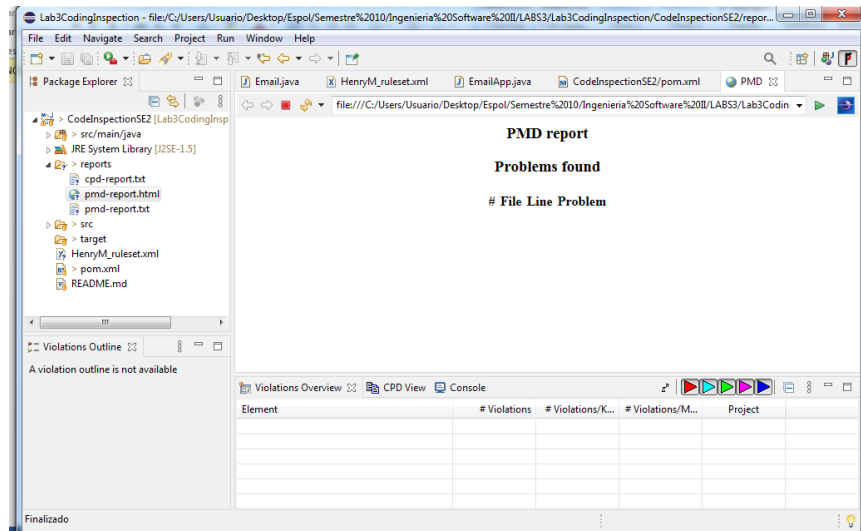
| Rule | Violation | Priority | Line |
|------------------------------|----------------------------------------------------------------------------------------------------------------------|----------|-------|
| BeanMembersShouldSerialize | Found non-transient, non-static member. Please mark as transient or provide accessors. | 2 | 5 |
| FieldNamingConventions | The field name 'm_firstName' doesn't match '[a-z][a-zA-Z0-9]*' | 1 | 5 |
| ImmutableField | Private field 'm_firstName' could be made final; it is only initialized in the declaration or constructor. | 3 | 5 |
| BeanMembersShouldSerialize | Found non-transient, non-static member. Please mark as transient or provide accessors. | 2 | 6 |
| ImmutableField | Private field 'm_lastName' could be made final; it is only initialized in the declaration or constructor. | 3 | 6 |
| FieldNamingConventions | The field name 'm_lastName' doesn't match '[a-z][a-zA-Z0-9]*' | 1 | 6 |
| BeanMembersShouldSerialize | Found non-transient, non-static member. Please mark as transient or provide accessors. | 2 | 7 |
| RedundantFieldInitializer | Avoid using redundant field initializer for 'password' | 3 | 7 |
| BeanMembersShouldSerialize | Found non-transient, non-static member. Please mark as transient or provide accessors. | 2 | 8 |
| LongVariable | Avoid excessively long variable names like defaultpasswordLength | 3 | 9 |
| BeanMembersShouldSerialize | Found non-transient, non-static member. Please mark as transient or provide accessors. | 2 | 9 |
| ImmutableField | Private field 'defaultpasswordLength' could be made final; it is only initialized in the declaration or constructor. | 3 | 9 |
| BeanMembersShouldSerialize | Found non-transient, non-static member. Please mark as transient or provide accessors. | 2 | 10 |
| CommentRequired | Public method and constructor comments are required | 3 | 12-15 |
| MethodArgumentCouldBeFinal | Parameter 'lastName' is not assigned and could be declared final | 3 | 12 |
| MethodArgumentCouldBeFinal | Parameter 'firstName' is not assigned and could be declared final | 3 | 12 |
| CommentRequired | Public method and constructor comments are required | 3 | 17-20 |
| CommentRequired | Public method and constructor comments are required | 3 | 22-34 |
| MethodArgumentCouldBeFinal | Parameter 'depChoice' is not assigned and could be declared final | 3 | 22 |
| SwitchStmtsShouldHaveDefault | Switch statements should have a default label | 3 | 23-33 |
| MethodArgumentCouldBeFinal | Parameter 'length' is not assigned and could be declared final | 3 | 36 |
| LocalVariableCouldBeFinal | Local variable 'set' could be declared final | 3 | 37 |
| LocalVariableCouldBeFinal | Local variable 'rand' could be declared final | 3 | 40 |
| CommentRequired | Public method and constructor comments are required | 3 | 46-50 |
| UseLocaleWithCaseConversions | When doing a String.toLowerCase()/toUpperCase() call, use a Locale | 3 | 48 |
| UseLocaleWithCaseConversions | When doing a String.toLowerCase()/toUpperCase() call, use a Locale | 3 | 48 |

AFTER OF CORRECTION



Henry Maticurena

Software Engineering II



URL OF REPOSITORY

<https://github.com/HenryMaticurena/Lab3CodingInspection>