

ESCUELA SUPERIOR POLITÉCNICA DEL LITORAL



SOFTWARE ENGINEERING II

2022-IT

WORKSHOP: CODE INSPECTION

MEMBERS:

- CHOEZ ESPINOZA ELVIS JOEL
- DEL ROSARIO CARRASCO MARCO STEVEN
- GARCIA VINTIMILLA DAVID ANDRES
- INTRIAGO SANCHEZ NOELIA ALEJANDRA
- LOOR MACIAS MANUEL ALEJANDRO
- ROBLES PEREZ ADRIEL GIAMPIER
- SANCHEZ PLAZA LUIS CARLOS
- VILLACIS FRANCISCO
- VILLAGOMEZ BORJA TOMMY JOEL
- YEPEZ VERA TATIANA LISBETH

PARALLEL: 2

Initial Code

- Email.java

The screenshot shows the Eclipse IDE with the `Email.java` file open. The code defines a `labcodeinspection` package with an `Email` class. The class has private fields for `firstName`, `lastName`, `password`, `department`, and `defaultpasswordLength`. It includes a constructor, a `showInfo()` method, and a `setDepartment()` method with a switch statement. The `Violations Overview` table at the bottom shows the following data:

Element	# Violations	# Violations/K...	# Violations/M...	Project
labcodeinspection	19	404.3	3.17	CodeInspection
Email.java	17	500.0	3.40	CodeInspection
EmailApp.java	2	153.8	2.00	CodeInspection

The screenshot shows the Eclipse IDE with the `Email.java` file open, displaying updated code. The `setDepartment()` method now includes three more cases: `dev`, `acct`, and `acct`. A new `randomPassword()` method is added, and the `generateEmail()` method is updated to use `randomPassword()` and `espol.edu.ec`. The `Violations Overview` table at the bottom shows the following data:

Element	# Violations	# Violations/K...	# Violations/M...	Project
labcodeinspection	19	404.3	3.17	CodeInspection
Email.java	17	500.0	3.40	CodeInspection
EmailApp.java	2	153.8	2.00	CodeInspection

- EmailApp.java

The screenshot shows the Eclipse IDE interface with the following components:

- Package Explorer:** Displays the project structure, including `src/main/java/labcodeinspection` and `EmailApp.java`.
- Editor:** Shows the source code of `EmailApp.java`. The code includes a package declaration, imports, and a `main` method that uses `Scanner` for input and `Email` for output.
- Violations Outline:** A table listing PMD violations found in the code.

P	Line	created	Rule
5		Thu Jun 30 13:18:55 ...	UseUtilityClass
7		Thu Jun 30 13:18:55 ...	CommentRequired
- Violations Overview:** A table summarizing the violations across the project.

Element	# Violations	# Violations/K...	# Violations/M...	Project
labcodeinspection	19	404.3	3.17	CodeInspection
Email.java	17	500.0	3.40	CodeInspection
EmailApp.java	2	153.8	2.00	CodeInspection

Fixed Code

- Email.java

The screenshot shows the Eclipse IDE with the 'Email.java' file open. The Package Explorer on the left shows the project structure. The main editor displays the code for the 'Email' class. The 'Violations Outline' pane at the bottom left is empty. The 'Violations Overview' pane at the bottom right shows a table with 2 violations for 'EmailApp.java'.

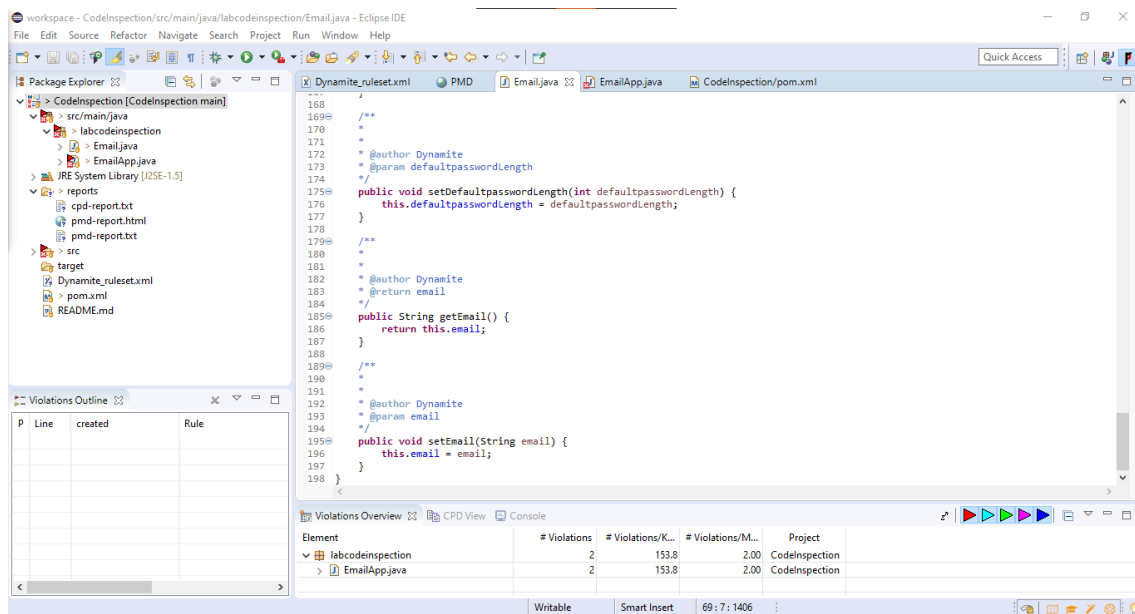
```
1 package labcodeinspection;
2
3 import java.util.Locale;
4
5 public class Email {
6
7     private String m_firstName;
8     private String m_lastName;
9     private String password;
10    private String department;
11    private int defaultpasswordLength = 8;
12    private String email;
13
14    /**
15     *
16     * @author Dynamite
17     * @param firstName
18     * @param lastName
19     */
20
21    public Email(String firstName, String lastName) {
22        this.m_firstName = firstName;
23        this.m_lastName = lastName;
24    }
25
26    /**
27     *
28     * @author Dynamite
29     */
30
31    public void showInfo() {
```

Element	# Violations	# Violations/K...	# Violations/M...	Project
labcodeinspection	2	153.8	2.00	CodeInspection
EmailApp.java	2	153.8	2.00	CodeInspection

The screenshot shows the Eclipse IDE with the 'Email.java' file open. The Package Explorer on the left shows the project structure. The main editor displays the code for the 'Email' class. The 'Violations Outline' pane at the bottom left is empty. The 'Violations Overview' pane at the bottom right shows a table with 2 violations for 'EmailApp.java'.

```
28 *
29 * @author Dynamite
30 */
31 public void showInfo() {
32     System.out.println("\nFIRST NAME= " + m_firstName + "\nLAST NAME= " + m_lastName);
33     System.out.println("DEPARTMENT= " + department + "\nEMAIL= " + email + "\nPASSWORD= " + password);
34 }
35
36 /**
37 *
38 * @author Dynamite
39 * @param depChoice
40 */
41
42 public void setDepartment(int depChoice) {
43     switch (depChoice) {
44         case 1:
45             this.department = "sales";
46             break;
47         case 2:
48             this.department = "dev";
49             break;
50         case 3:
51             this.department = "acct";
52             break;
53         default:
54             break;
55     }
56 }
57
58 private String randomPassword(int length) {
```

Element	# Violations	# Violations/K...	# Violations/M...	Project
labcodeinspection	2	153.8	2.00	CodeInspection
EmailApp.java	2	153.8	2.00	CodeInspection



- **EmailApp.java**

