

UNIVERSITY OF THE ARMED FORCES – ESPE WS32 –SOFTWARE PRINCIPLES GROUPS

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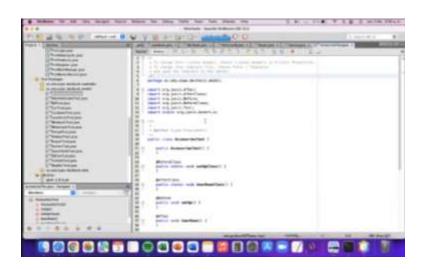
Date: 03th February 2022

NRC: 7490

Career: Telecommunications

TEAM 1:

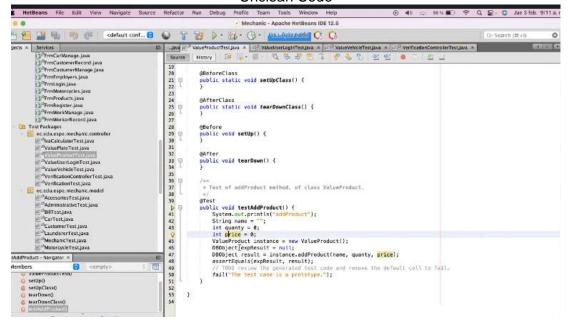
Salma Villegas Alexander Ruano Daniel Lincango Mateo Maldonado Leandro Quinga Joel Zeas

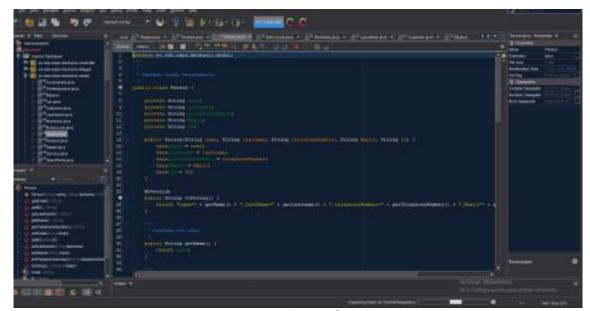


Innecesary comments, unclean code



Unclean Code

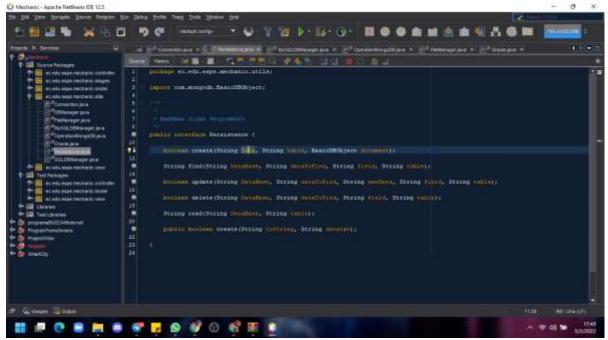




do not use the format Camelcase

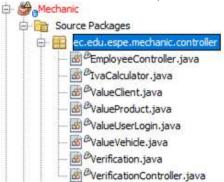
Refactor jbutton





Don't use camelcase

Very redundant class names, difficult to differentiate



• **Single ResponsibilityPrinciples:** there is no relationship between the "document" variable and the "addVehicle" class. It is also a very general term.

```
BasicDBObject document = new BasicDBObject();

public DBObject addVehicle(int Name, String LastName, String Phone, String Code)

document.put("Name", Name);
document.put("LastName", LastName);
document.put("Fhone", Phone);
document.put("Code", Code);

return null;
}
```



- Use an else variable that replaces the return and returns an actual data

public class ValueClient (

```
public boolean create(Customer customer) {
   boolean created = false;
   String personData;

   Persistence persistence;

   persistence = new FileManager();

   if (persistence.create(customer.toString(), "Data.txt")) {
        JOptionPane.showNessageDialog(null, customer + "was saved");
    }
   return created;
}
```

Use lower case for variables

```
public DBObject addVehicle(int year, String Registration, String Plate, String trademark, String model, float mileage) {
    document.put("Year", year);
    document.put("Registration", Registration);
    document.put("Plate", Plate);
```

 Getters and setters must be programmed in the ".model" package, no in the ".controller" package

```
Projects X Services
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                                 Source History 100 to - III - 10 15 27 18 17 18 48
⊕ 🍅 ContactBook
                                 16
⊜ ØoMechanic
                                 17 🖯
  ⊕ Source Packages
                                 18
                                           * Greturn the user
    ec.edu.espe.mechanic.controller
                                 19
         EmployeeController.java
                                 20 🗐
                                          public String getUser() (
         ∰ <sup>B</sup>īvaCalculator.java
                                 21
                                              return user;
         WalueClent.java
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         <sup>®</sup>ValueProduct.java
                                 23
         24 🗇
         <sup>®</sup>ValueVehicle.java
                                           * Sparan user the user to set
                                 25
         Verification Java
                                26
                                 27 □
                                          public void setUser(String user) (

    ec.edu.espe.mechanic.images

                                 28
                                              this.user = user;
                                 29

    ec.edu.espe.mechanic.model

    ec.edu.espe.mechanic.utils

    ec.edu.espe.mechanic.view

                                 31
  * Sreturn the password
                                33
  III g Libraries
  34 🗐
                                          public String getPassword() (
SmartCityPlanet
                                35
                                              return password;
⊕ 🍃 Zoo
                                 36
                               37
```

- **Open/Closed Principle:** Very general variable and method names, also the user validation programming is usually done in the .view package and it must be open to extend

```
public boolean login(Verification verification, String user, String password) {

   boolean logged = false;
   String readLine;
   Persistence persistence;
   persistence = new FileManager();
   readLine = persistence.read("", "Users.json");

   Gson gson = new Gson();

   verification = gson.fromJson(readLine, Verification.class);

if (user.isEmpty() || password.isEmpty()) {
        JOptionPane.showMessageDialog(null, "FILL ALL THE FIELDS");
    } else if (user.equals(verification.getUser()) == false is password.equals(verification.getPassword()) == false) {
```

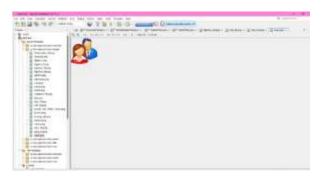


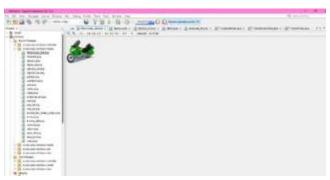
Source Packages

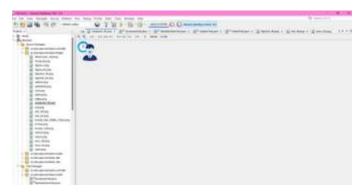
Package: ec.edu.espe.mechanic.images

Nothing to mention, each class has only one image.

Used Principles: Single Responsibility Principle (each class have only one image)







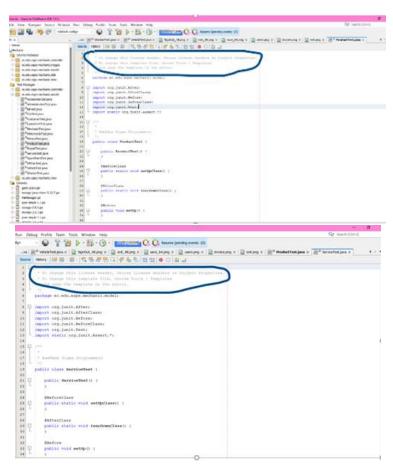


Test Packages

Package: ec.edu.espe.mechanic.model

Unnecessary comments, unclean code,

Used Principles: Single Responsibility Principle (This package is being used for testing only, so each class has a unique reason)





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