Correción del proyecto

Team 5: NullPointerException
Project: DPEXSystem
Customer: Sheyla Lamar
GitHub URL: aarzec/OOP14575_NULLPOINTEREXCEPTION: Repository of our OOP team (github.com)

1. Ilhan Randy Rogel Villa 80
2. Mateo Nicolay Rogeron Maila 95
3. Andrés Alejandro Romero Zambrano 92
4. Luis Eduardo Sagnay Pilamunga 91

Rubric
GitHub /100
Defense /100

1. Presentation ***5.97***/10

2. Interview ⅗

   In the interview you only see the client

3. Project Definition 4.5/5

   Small details were found where the text is not understood

4. IEEE 830 8/10

   The purpose of the project is not defined but the purpose of the document is defined

5. UML
   a. Use Case Diagram 7/10
      Missing use cases, missing functionality
   b. Class Diagram 7/10
      Lack of association date, multiplicity and verb,.
      Most classes have crud operations, seeters and getters

6. Test Cases 10/10
   The test cases are complete, and it has been verified that all cases yield the results documented

7. Code Quality 8.5/10
   There is a functionality presented in the menu (Assign new role) that does not perform any action -1.
   And there are some parts where there is no cohesion. -0.5

8. Validation 8/10

   The program needs to implement functions

9. Verification 9/20

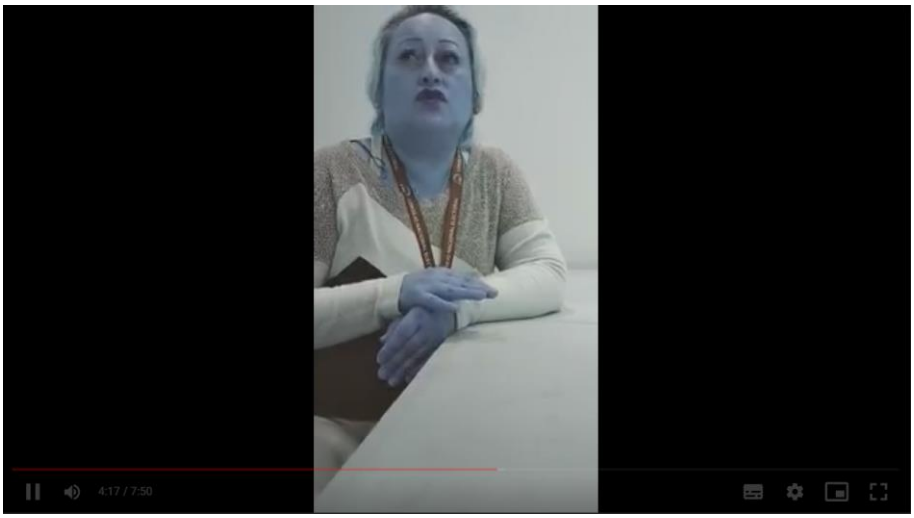
Missing validations when entering a country name or office name

Evidence

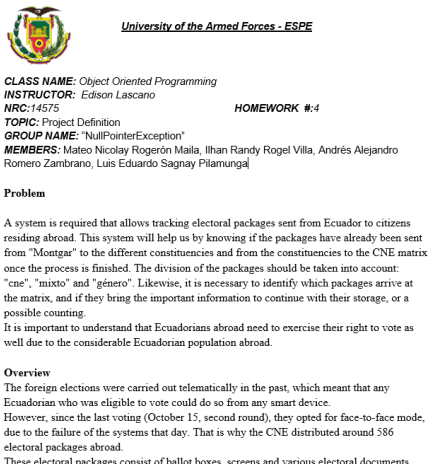
GitHub

Defense

1. Presentation
2. Interview



3. Project Definition



University of the Armed Forces - ESPE

CLASS NAME: *Object Oriented Programming*
INSTRUCTOR: *Edison Lascano*
NRC:*14575* ***HOMEWORK #:****4*
TOPIC: Project Definition
GROUP NAME: "NullPointerException"
MEMBERS: Mateo Nicolay Rogerón Maila, Ilhan Randy Rogel Villa, Andrés Alejandro Romero Zambrano, Luis Eduardo Sagnay Pilamunga

Problem

A system is required that allows tracking electoral packages sent from Ecuador to citizens residing abroad. This system will help us by knowing if the packages have already been sent from "Montgar" to the different constituencies and from the constituencies to the CNE matrix once the process is finished. The division of the packages should be taken into account: "cne", "mixto" and "género". Likewise, it is necessary to identify which packages arrive at the matrix, and if they bring the important information to continue with their storage, or a possible counting.
It is important to understand that Ecuadorians abroad need to exercise their right to vote as well due to the considerable Ecuadorian population abroad.

Overview
The foreign elections were carried out telematically in the past, which meant that any Ecuadorian who was eligible to vote could do so from any smart device.
However, since the last voting (October 15, second round), they opted for face-to-face mode, due to the failure of the systems that day. That is why the CNE distributed around 586 electoral packages abroad.
These electoral packages consist of ballot boxes, screens and various electoral documents

4. IEEE 830

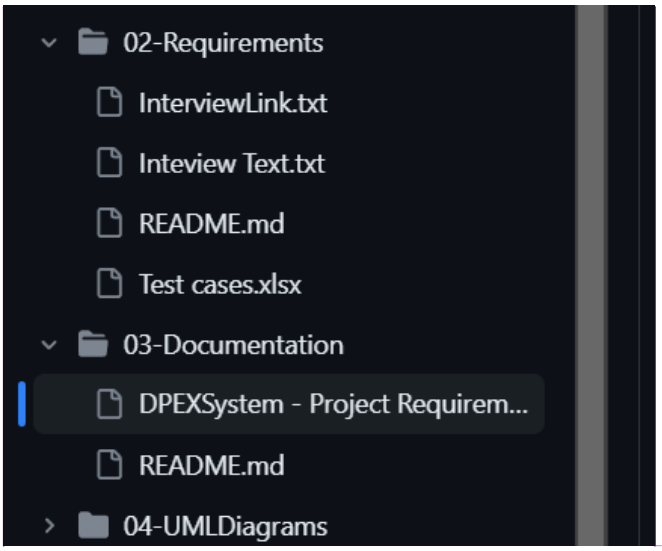
1.1 Purpose

This document serves three main objectives:

- To explain the methodology used to analyze and enhance the initial requirements provided by DPEX.
- To state the requirements for the DPEX Package Tracking System.
- To present a detailed analysis of the requirements, including dependencies, resolved issues, comprehension of the requirements, and their interrelations.

As such, this document goes beyond a mere requirements specification; it also serves as an articulation of the derivation process from the input and the interconnected nature of the requirements

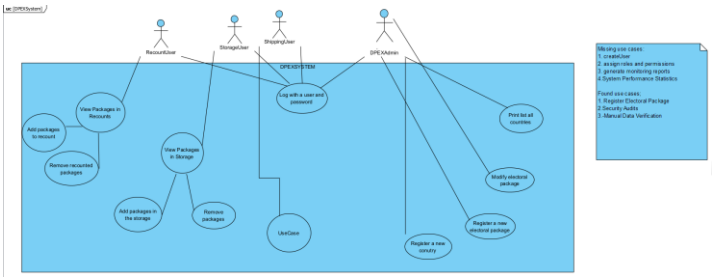
Comentado [1]: You should write the purpose of your app, not the purpose of the document



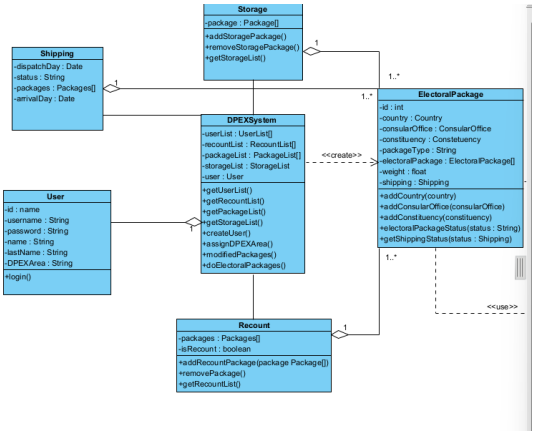
Comentado [2]: IEEE830 should be in 02-Requirements

5. UML

a) Use case diagram



b) Class Diagram



Test Cases

1. Input: Wrong name
   Expected output: The program should inform you that the country does not exist and should prompt you again for the country name."
   When attempting to register a new electoral package, if the country information is entered incorrectly, the message appears that the country is not correct. However, it still directs me to the next part of the registration

```
Enter the country name:
Guayaquil
The country you entered doesn't exist
Enter the name of the consular office:
```

   Status: Failed

2. Input: Data is entered incorrectly multiple times.
   Expected output: The program should instruct the customer to review the information again or return them to the main menu
   If multiple pieces of data are entered incorrectly, the program crashes.

```
Exception in thread "main" java.lang.MultiplinterException: Cannot invoke "rc.edu.espe.dpexsystem.model.Country.getEcuadorianPopulation()" because "country" is null
    at rc.edu.espe.dpexsystem.util.MainMenu.registerElectoralPackage(MainMenu.java:99)
    at rc.edu.espe.dpexsystem.util.MainMenu.showMainMenu(MainMenu.java:42)
    at rc.edu.espe.dpexsystem.util.MainMenu.showMainMenu(MainMenu.java:35)
    at rc.edu.espe.dpexsystem.view.DPEXSystem.main(DPEXSystem.java:42)
```

   Status: Failed

3. Input: An incorrect ID is entered.
   Expected output: The program should inform the customer that the ID is not found and provide information on where to locate that data
   At no point is the package ID known, so when attempting to modify it, it is not possible as that information is not available

```
Enter the ID of the package you want to modify:
152030320
Package not found with ID: 152030320

Press enter to continue...
```

   Status: Failed

4. Input: A "name" is typed with numerical values.
   Expected result: warning message that different words or characters should be placed
   Status : failed

```
21478
Enter the country's consular office name:
02 26 - 15
Enter the consular office's address:
Isidro ayora
```

5. Input: Enter 5
   Expected result: A new section of the program is entered to be able to assign new roles
   Status : failed

```
Press enter to continue...
```

```
private static void createNewRole() {
    // TO DO
}
```

6. Input: Enter 6
   Expected result: You enter a new section of the program to Export electoral package data
   Status : failed

```
Main Menu - Administrator
==================================
1. Register a new electoral package
2. Modify a registered package
3. List all countries
4. Register a new country
5. Assign new roles
6. Export electoral packages data
7. Logout
8. Quit
==================================

Enter your choice (1-8): 6

Press enter to continue...
```

```
Main Menu - Administrator
==================================
1. Register a new electoral package
2. Modify a registered package
3. List all countries
4. Register a new country
5. Assign new roles
6. Export electoral packages data
7. Logout
8. Quit
==================================

Enter your choice (1-8): 2
Enter the ID of the package you want to modify:
2

Package not found with ID: 2

Press enter to continue...
```

9. In the section to modify a registry package, I am expected to enter the id of the record, but it does not provide me with information on the id of each record so I know which one I want to modify.
   - Input: Select a registry package to modify.
   - Expected Output: Information about the selected registry package for modification
   - status:
     Failed

```
Main Menu - Administrator
==================================
1. Register a new electoral package
2. Modify a registered package
3. List all countries
4. Register a new country
5. Assign new roles
6. Export electoral packages data
7. Logout
8. Quit
==================================

Enter your choice (1-8): 2
Enter the ID of the package you want to modify:
2

Package not found with ID: 2

Press enter to continue...
```

10. When you exit the program and log in again it does not allow you to do so
    - Input: Exit the program and log in again.
    - Expected Output: return to main menu.
    - status: Failed

7. Input: A "country name" is written with numerical values.
   Expected result: Warning message that different words or characters should be placed
   Status : failed

```
-> Bolivi: Ecuadorian population: 27000
-> chile: Ecuadorian population: 21478
-> 15478: Ecuadorian population: 21478

Press enter to continue...
```

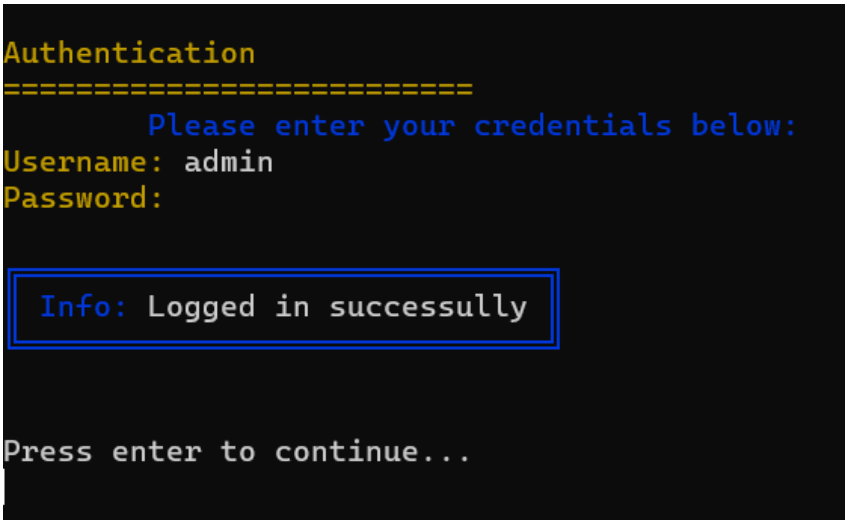
8. Test Case: Return to Main Menu from Any Section
   - Input: "Exit menu" or equivalent (may be a specific option in the current section to return to the main menu).
   - Expected Output: Successful return to the main menu of the application.
   - status: Failed

Code Quality

```
    }

    private static void logInNewUser() {

        System.out.println(x: "Executing option 6: Log in as a different user");
    }

    private static void LogOut() {
        System.out.println(x: "Logged out succesfuly");
        LoginMenu.showLoginPrompt();
    }
```

Validation