

DEPARTAMENTO DE CIENCIAS DE LA COMPUTACIÓN

OBJECT ORIENTED PROGRAMMING

28434

HOMEWORK:

Walkthrough

MEMBERS:

Paulo Ramos

Josue Rojas

PROFESSOR:

EDISON LASCANO

GROUP'S NAME: Team Neon Cursed

PROJECT'S NAME: Alert System of Accounting Office

1. Error logging in:

- **Roles:**

Author: Josue Rojas

Reviewer: Paulo Ramos

Scribe: Paulo Ramos

Moderator: Paulo Ramos

Description of the Problem

When the user attempted to access the Alert System, the login process failed to validate the entered credentials, displaying an “*Invalid user or password*” message even when the data was correct.

Cause of the Error

After reviewing the code in the LoginController class, the issue was caused by an incorrect comparison between the stored and entered strings.

Solution Implemented

1. The condition in the method was updated
2. Test data was entered again to verify successful authentication.
3. Exception handling and validation messages were improved for better user feedback.

Results

- Successful login was achieved using valid credentials.
- Functionality confirmed by both members during peer review.

Observation

The correction improved system usability and error traceability, enhancing user experience and system stability.

```
AlertSystem (run) #6 × AlertSystem (run) #7 ×

run:
==== Inicio de sesion ====
Usuario: josue
Contrasena: 1234

Credenciales no válidas. Intentelo de nuevo..
BUILD SUCCESSFUL (total time: 17 seconds)
```

2. Data entry validation in the menu

- **Roles:**

Author:Paulo Ramos
Reviewer: Josue Rojas
Scribe: Josue Rojas
Moderator: Josue Rojas

Description of the Problem

When incorrect data was entered in the menu section, an error was generated that prevented the program from functioning correctly.

Cause of the Error

There was no data validation when entering integers or text strings.

Solution Implemented

1. The method for validating data input has been updated; it now handles exceptions and allows the user to see the error made when running the program.

Results

- The menu now executes correctly without errors, allowing for a continuous flow of the program and not affecting its operation.

Observation

The correction improved system usability and error traceability.

```

===== MENÚ ASISTENTE =====
1. Ver mis tareas
2. Marcar tarea como completada
3. Ver mis indicadores de rendimiento
4. Ver mis alertas
0. Cerrar sesión
Selecciona una opción: j
Exception in thread "main" java.util.InputMismatchException
|   at java.base/java.util.Scanner.throwFor(Scanner.java:964)
|   at java.base/java.util.Scanner.next(Scanner.java:1619)
|   at java.base/java.util.Scanner.nextInt(Scanner.java:2284)
|   at java.base/java.util.Scanner.nextInt(Scanner.java:2238)
|   at ec.edu.espe.AlertSystem.view.AssistantView.showMenu(AssistantView.java:40)
|   at ec.edu.espe.AlertSystem.view.LoginView.showMenu(LoginView.java:37)
|   at ec.edu.espe.AlertSystem.view.Main.main(Main.java:22)
C:\Users\JOSUE\AppData\Local\NetBeans\Cache\27\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\JOSUE\AppData\Local\NetBeans\Cache\27\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 38 seconds)

```

3. Error entering a completed task

- **Roles:**

Author: Paulo Ramos

Reviewer: Josue Rojas

Scribe:Josue Rojas

Moderator: Josue Rojas

Description of the Problem

If, by mistake, a valid ID is not entered when completing a task, the program will stop and terminate its execution.

Cause of the Error

The process of opening the JSON task did not correctly check if the task already existed in the JSON file before marking it as completed.

Solution Implemented

- The taskController class was updated, allowing for simpler and error-free JSON handling.
- Validations were added when entering a value via the keyboard.

Results

If an invalid ID is entered, a warning message appears and allows the entry of a new value.

Observation

This task improved the consistency of the json files and the user experience through better validation controls.

```
out - AlertSystem (run) #7
1. Iva | Estado: Completada | Cliente: Caramelos | Entrega: 2025-12-25
2. Detalles | Estado: Incompleto | Cliente: Caramelos | Entrega: 2025-12-01

===== MENÚ ASISTENTE =====
1. Ver mis tareas
2. Marcar tarea como completada
3. Ver mis indicadores de rendimiento
4. Ver mis alertas
0. Cerrar sesión
Seleccione una opción: 2

--- MIS TAREAS ---
1. Iva | Estado: Completada | Cliente: Caramelos | Entrega: 2025-12-25
2. Detalles | Estado: Incompleto | Cliente: Caramelos | Entrega: 2025-12-01
Seleccione el número de la tarea a completar: 0
[-] Exception in thread "main" java.util.InputMismatchException
    at java.base/java.util.Scanner.throwFor(Scanner.java:964)
    at java.base/java.util.Scanner.next(Scanner.java:1619)
    at java.base/java.util.Scanner.nextInt(Scanner.java:2284)
    at java.base/java.util.Scanner.nextInt(Scanner.java:2238)
```

4. Misused comments

- **Roles:**

Author: Josue Rojas

Reviewer: Paulo Ramos

Scribe: Paulo Ramos

Moderator: Paulo Ramos

Description of the Problem

Unnecessary and inefficient comments are used when writing code.

Cause of the Error

Incorrect use of comments to avoid confusion with certain parts of the code.

Solution Implemented

- Remove and review the code to eliminate comments that do not meet a detail necessary for understanding the code.

Results

Cleaner and more organized code therefore improves the readability and understanding of the project's code functionalities

Observation

When you want to modify and update parts of the code, each part of the code is better understood.

```
if (controller.loginBoss(user, pass)) {
    System.out.println("\nBienvenido!");
    BossView bossView = new BossView();
    bossView.showBossMenu();
    loggedIn = true; // salir del bucle
} else if (controller.loginAssistant(user, pass)) {
    System.out.println("\nBienvenido!");
    AssistantView assistantView = new AssistantView(user);
    assistantView.showMenu();
    loggedIn = true; // salir del bucle|
```