

TALLER 2

“ASPECTJ”



Integrantes:

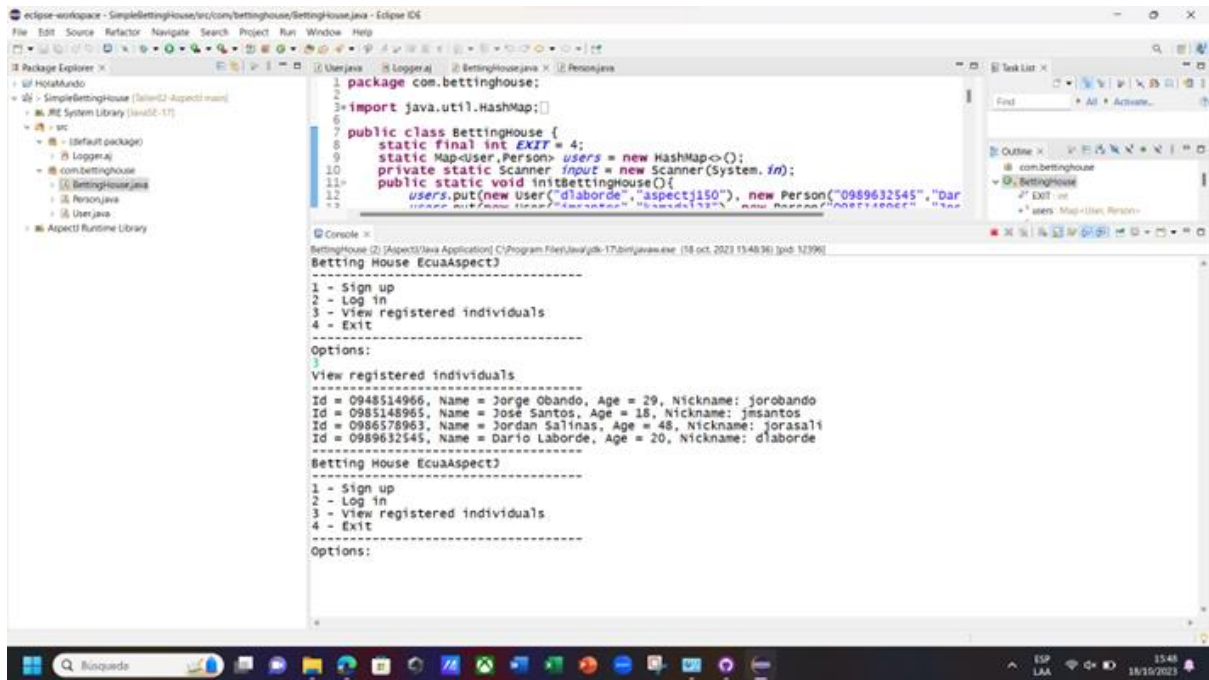
- ❖ Benites Alex
- ❖ Cabrera Leonel
- ❖ Estrella Austin

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Evidencia del Taller

- Funcionamiento de la Sección “B” ejecución del menú ingreso Usuario.



- Funcionamiento de la sección “C”:

✓ parte1:

código del Aspect Logger cuando se realiza la opción de “sign up”

```
private SimpleDateFormat fecha = new SimpleDateFormat("EEE MMM dd HH:mm:ss z yyyy");
pointcut registerUser() : call(* com.bettinghouse.BettingHouse.successfulSignUp(..));
after() returning : registerUser() {
    User user = (User) thisJoinPoint.getArgs()[0];
    recordAction("Register.txt", user, "Usuario registrado");
}
private void recordAction(String fileName, User user, String actionType) {
    File file = new File(fileName);
    String time = fecha.format(Calendar.getInstance().getTime());

    try (PrintWriter out = new PrintWriter(new FileWriter(file, true))) {
        String message;
        if (actionType.equals("Usuario registrado")) {
            message = actionType + ": [nickname=" + user.getNickname() + ", password=" + user.getPassword() + "] Fecha: [" +
        } else {
            message = actionType + " por usuario: [" + user.getNickname() + "] Fecha: [" + time + "];
        }
        System.out.println(message);
        out.println(message);
    } catch (IOException e) {
        e.printStackTrace();
    }
}
```

muestra del resultado por pantalla:

```
10 public aspect Logger {
11
12     private SimpleDateFormat fecha = new SimpleDateFormat("EEE MMM dd HH:mm:ss z yyyy");
13     @pointcut registerUser() : call(* com.bettinghouse.BettingHouse.successfulSignUp(..));
14     @after() returning : registerUser() {
15         User user = (User) thisJoinPoint.getArgs()[0];
16         recordAction("Register.txt", user, "Usuario registrado");
17     }
18     private void recordAction(String fileName, User user, String actionType) {
19         File file = new File(fileName);
20         String time = fecha.format(Calendar.getInstance().getTime());
```

Problems Javadoc Declaration Console Cross References

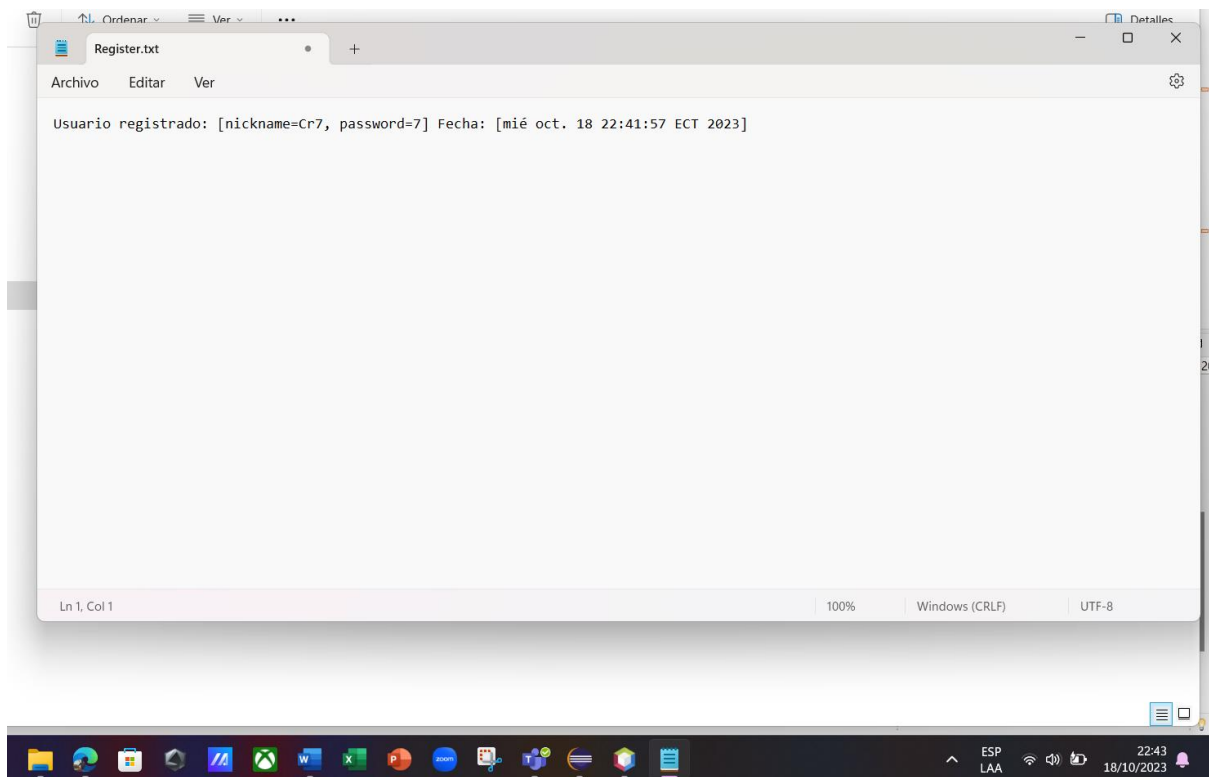
BettingHouse (3) [Aspect//Java Application] C:\Users\Aben\Downloads\eclipse-java-2023-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.17.0.8.v20230831-1047\jre\bin\javaw.exe (18 c

Last Name:
Ronaldo
Age:
39
Nickname:
Cr7
Password:
7
You have registered successfully.
Usuario registrado: [nickname=Cr7, password=7] Fecha: [mié oct. 18 22:41:57 ECT 2023]

Betting House EcuaAspectJ

1 - Sign up
2 - Log in
3 - View registered individuals
4 - Exit

Escritura en el archivo Register.txt



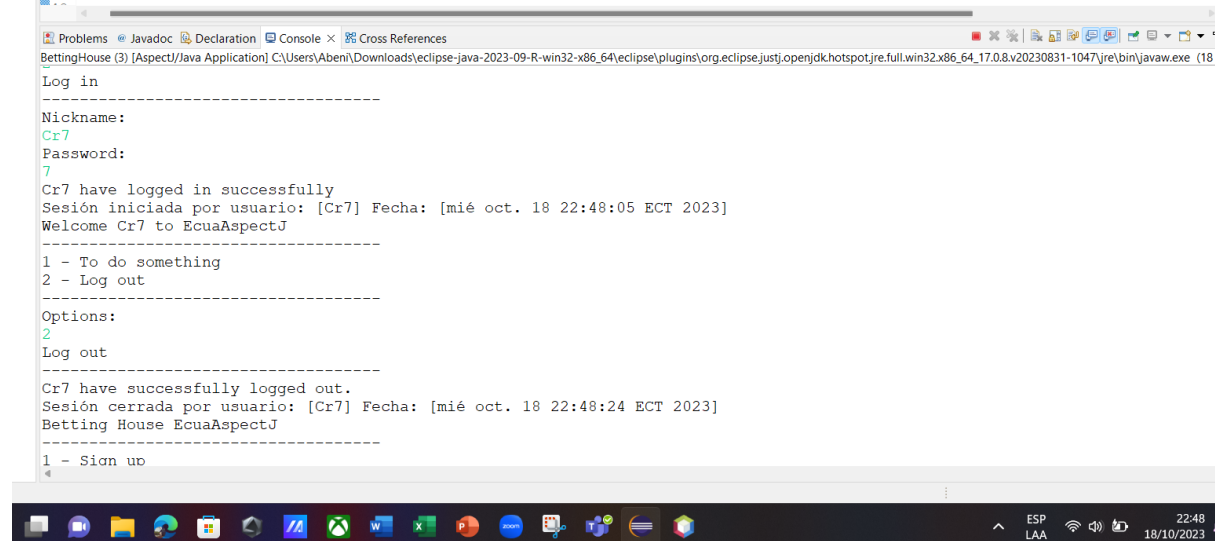
✓ Parte 2:

código del Aspect Logger cuando se realiza la opción de “Log in y Log out”

```
37     pointcut loginAndLogoutUser() : (call(* com.bettinghouse.BettingHouse.effectiveLogIn(..)) || call(* com.bettinghouse.effectiveLogOut(..)))
38
39     after() returning : loginAndLogoutUser() {
40         User user = (User) thisJoinPoint.getArgs()[0];
41         if (thisJoinPoint.getSignature().getName().equals("effectiveLogIn")) {
42             recordAction("Log.txt", user, "Sesión iniciada");
43         } else if (thisJoinPoint.getSignature().getName().equals("effectiveLogOut")) {
44             recordAction("Log.txt", user, "Sesión cerrada");
45         }
46     }
47
48 }
49
50 }
```

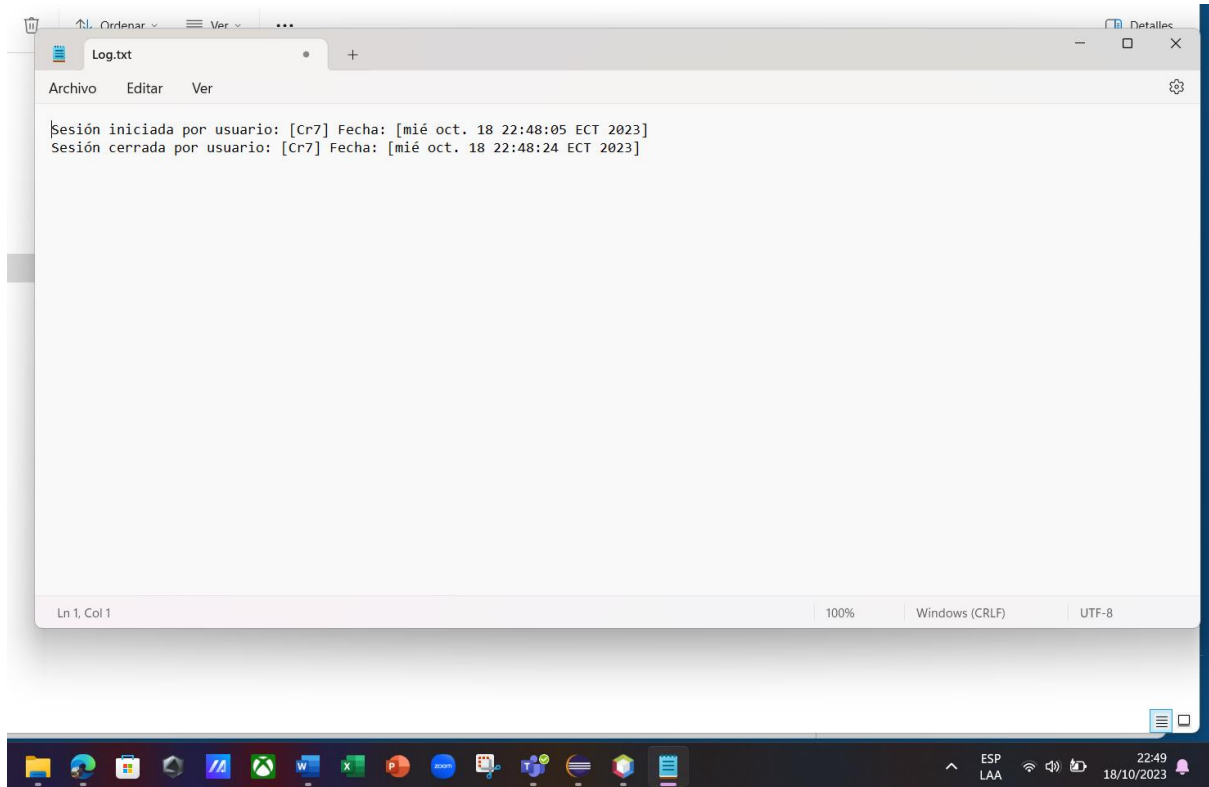
muestra del resultado por pantalla:

```
41     if (thisJoinPoint.getSignature().getName().equals("effectiveLogIn")) {
42         recordAction("Log.txt", user, "Sesión iniciada");
43     } else if (thisJoinPoint.getSignature().getName().equals("effectiveLogOut")) {
44         recordAction("Log.txt", user, "Sesión cerrada");
45     }
46 }
47
48 }
```



```
BettingHouse (3) [AspectJ/Java Application] C:\Users\Abenil\Downloads\eclipse-java-2023-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.8.v20230831-1047\jre\bin\javaw.exe (18)
Log in
-----
Nickname:
Cr7
Password:
7
Cr7 have logged in successfully
Sesión iniciada por usuario: [Cr7] Fecha: [mié oct. 18 22:48:05 ECT 2023]
Welcome Cr7 to EcuaAspectJ
-----
1 - To do something
2 - Log out
-----
Options:
2
Log out
-----
Cr7 have successfully logged out.
Sesión cerrada por usuario: [Cr7] Fecha: [mié oct. 18 22:48:24 ECT 2023]
Betting House EcuaAspectJ
-----
1 - Sign up
```

Escritura en el archivo Log.txt



Enlace al repositorio

<https://github.com/leoancab/Taller02-AspectJ.git>