



Universidad de las Fuerzas Armadas ESPE

OBJECT ORIENTED PROGRAMMING

GROUP 4

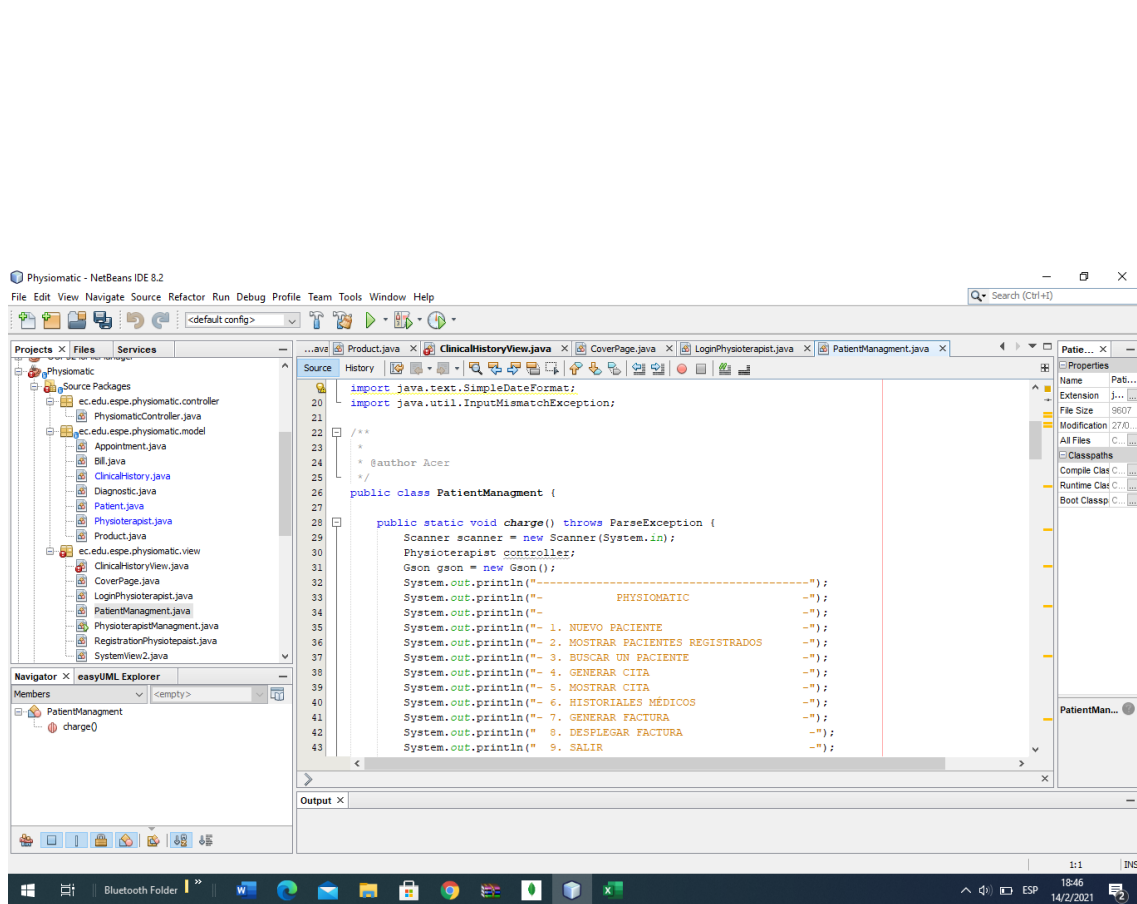
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INSPECTION OF SMELLS CODE FOR GROUP 2

```
history | public static void manageClinicalHistory() throws ParseException {
    Scanner scanner = new Scanner(System.in);

    Gson gson = new Gson();
    System.out.println("-----");
    System.out.println("- HISTORIALES MÉDICOS -");
    System.out.println("-");
    System.out.println("- 1. CREAR NUEVO HISTORIAL MÉDICO -");
    System.out.println("- 2. DESPLEGAR UN HISTORIAL MÉDICO -");
    System.out.println("- 3. AÑADIR UN DIAGNÓSTICO AL HISTORIAL MÉDICO -");
    System.out.println("- 4. REGRESAR. -");
    System.out.println("-----");
    System.out.println("ELIJA UNA OPCIÓN: ");
    String option1;
    int option=1;
    try {
        option1 = scanner.nextLine();
        while(!Physioterapist.isNumeric(option1)){
            System.out.println("ELIJA UNA OPCIÓN CORRECTA: ");
            option1 = scanner.nextLine();
        }
        try{
            option=Integer.valueOf(option1);
        }catch(Exception e){
            System.out.println("NO SE PUEDE TRANSFORMAR");
        }
    }
```

- The method manageClinicalHistory is too large. You can Split in some methods.



- The method charge is too large

```
Diagnostic diagnostic = new Diagnostic(pathology, treatment, symptoms, allergies, dateOfDiagno
return diagnostic;
}
//basado en algoritmo de http://lineadecodigo.com/java/validar-si-un-dato-es-numerico-en-java
// Class validation en utils
public static boolean isNumeric(String string) {
    try {
        Integer.parseInt(string);
        return true;
    } catch (NumberFormatException nfe) {
        return false;
    }
}
public static boolean isFloat(String string) {
    try {
        Float.parseFloat(string);
        return true;
    } catch (NumberFormatException nfe) {
        return false;
    }
}
```

- There are two methods: isNumeric, isFloat, these methods must be in utils package.

```
public static Patient generatePatient() {
    Scanner scanner = new Scanner(System.in);
    System.out.println("INGRESE EL No. DE CÉDULA DEL PACIENTE: ");
    String idPatient1 = scanner.nextLine();
    long idPatient=1;
    while (!Physioterapist.isNumeric(idPatient1)) {
        System.out.println("INGRESE UN DATO NUMÉRICO: ");
        idPatient1 = scanner.nextLine();
    }
    try {
        idPatient = Integer.valueOf(idPatient1);
    } catch (Exception e) {
        System.out.println("NO SE PUEDE TRANSFORMAR");
    }

    System.out.println("INGRESE EL NOMBRE DEL PACIENTE: ");
    String namePatient = scanner.nextLine();

    System.out.println("INGRESE EL APELLIDO DEL PACIENTE: ");
    String lastNamePatient = scanner.nextLine();

    System.out.println("INGRESE EL No. DE CONTACTO DEL PACIENTE: ");
```

- There are many methods that printing in model package.

