

# Object Oriented Programming

## WWS 37 - PROJECT INSPECTION

**DATE: 24th february 2022**

Inspector Team

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Modularity	/10	packages	7:47-7:52	
Clean code	/10	variables, vertical/horizontal, CamelCase, nouns, verbs, comments	7:57-8:07	
MVC	/10	View (no code, calling to functions), Controller/Utils (functions), Model (no BR methods, only attributes POJO)	8:10 - 8:20	
One design pattern	/10	Singleton, Template Method, Strategy		
		8:22 - 8:27		
Diagrams consistency	/10	Use Case -> actions (GUI), Class Diagram -> View, Model		8:27
- 8:37				
Unit tests	/10	assert(expected,actual) -> 100, run (error (red), green		8:37 - 8:42
GUI navigability	/10	navigate to the system options		8:47-8:52
GUI fields validation	/10	every TextField must be validated (-1)		8:52:-9:02
Functionality	/10	3 to 4 computations, MongoDB Atlas		9:02-9:07
MongoDB	/10	Data in the Cloud		9:07-9:12
<hr/>				
TOTAL	/100			

Modularity

Clean code

MVC

One design pattern

Diagrams consistency

Unit tests

GUI navigability

GUI fields validation

Functionality

MongoDB

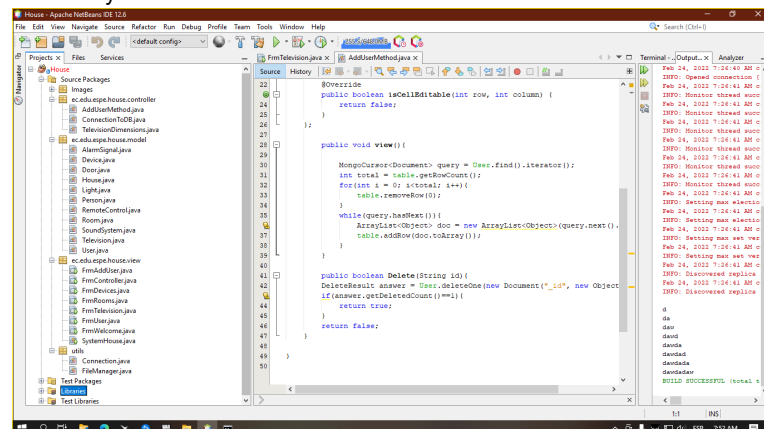
Inspector: T5 (JavaLegendsTeam) Leader: Guitarra Jhon  
 Team: T1 (Alpha Team) Leader: Altamirano Cristhian  
 Project: Smart Home

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- 2 ALTAMIRANO BENALCAZAR CRISTHIAN ALEXANDER
- 3 ALVAREZ RAMIREZ MICHELLE ESTEFANIA
- 4 ANDRADE CARATE ALAN DAMIAN
- 5 ANDRANGO ESPINOSA ALEX PAÚL

Modularity	10/10
Clean code	9/10
MVC	8/10
One design pattern	0/10
Diagrams consistency	8/10
Unit tests	10/10
GUI navigability	10/10
GUI fields validation	10/10
Functionality	10/10
MongoDB	10/10

TOTAL 85/100

## Modularity



## Clean code

```

    * @param args the command line arguments
    */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc="Look and feel setti
        /* If Nimbus (introduced in Java SE 6) is not available, stay with
        * For details see http://download.oracle.com/javase/tutorial/uisw
        */
        try {

```

inspector: unremoved comments in code.

```

23  /**
24  * @return the status
25  */
26  public boolean isStatus() {
27      return status;
28  }
29
30

```

```

    /**
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        Look and feel setting code (optional)
        //<editor-fold>

        /* Create and display the form */

```

```

    }

    /**
     * This method is called from within the constructor to i
     * WARNING: Do NOT modify this code. The content of this
     * regenerated by the Form Editor.
     */
    @SuppressWarnings({unchecked,rawtypes})
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        Look and feel setting code (optional)
    }

```

inspector: repeat mistake

MVC

```

2
3 private void BtnDeleteActionPerformed(java.awt.event.ActionEvent
4     int renglon = jTableUser.getSelectedRow();
5     if(renglon == -1){
6         JOptionPane.showMessageDialog(this, "Error, Select the
7         return;
8     }
9     String idRemove = jTableUser.getValueAt(renglon, 0).toString();
10    int respuesta = JOptionPane.showConfirmDialog(this, "Are you
11    if(respuesta == JOptionPane.OK_OPTION){
12        boolean answerDelete = Delete(idRemove);
13        if(answerDelete==true){
14            view();
15            JOptionPane.showMessageDialog(this, "The user was s
16        }else{
17            JOptionPane.showMessageDialog(this, "The user could
18        }
19    }
20 }
21

```

inspector: code in the button.

```

FrmAddUser.java X
Source Design History
547
548 public boolean Delete(String id){
549     DeleteResult answer = User.deleteOne(new Document("_id", new Object()
550     if(answer.getDeletedCount()==1){
551         return true;
552     }
553     return false;
554 }
555
556 public void view(){
557
558     MongoClient mongoClient = new MongoClient(new MongoClientOptions.Builder()
559     MongoCursor<Document> query = User.find().iterator();
560
561     int total = table.getRowCount();
562     for(int i = 0; i<total; i++){
563         table.removeRow(0);
564     }
565     while(query.hasNext()){
566         ArrayList<Object> doc = new ArrayList<Object>(query.next().value().toArray());
567         table.addRow(doc.toArray());
568     }
569 }

```

inspector: Code in Frm(view)

```

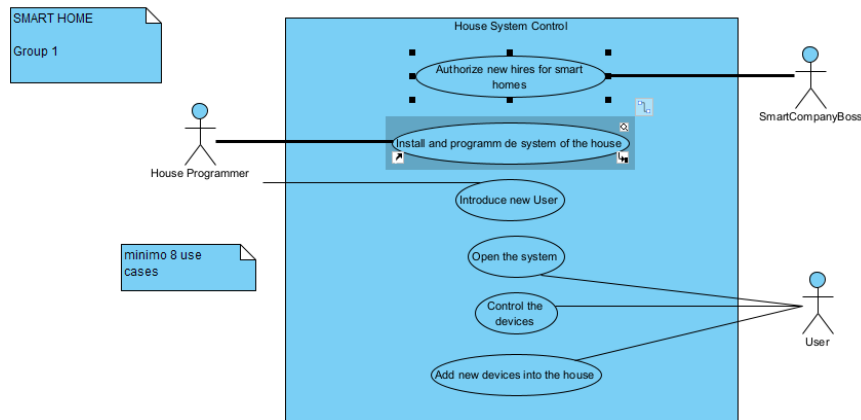
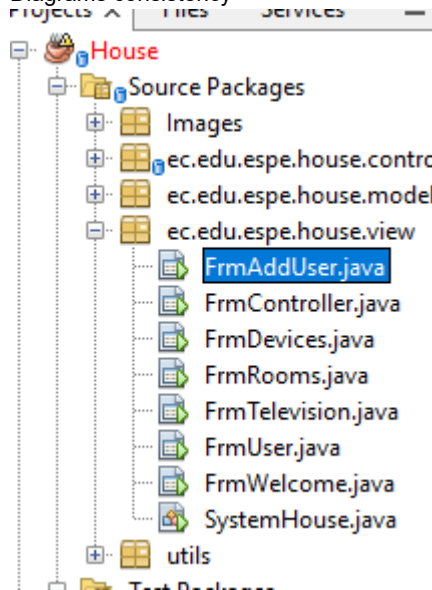
6 import com.mongodb.client.MongoClient;
7 import com.mongodb.client.MongoClients;
8 import com.mongodb.client.MongoDatabase;
9
10
11 /**
12  *
13  * @author malvarez, altamirano, almaches, andrade, andrangos
14  */
15 public class ConnectionToDB {
16
17     ConnectionString connectionString = new ConnectionString("mongodb+srv://andersm:andersm@cluster00.3poht.mongodb.net/?retryWrites=true&w=majority");
18     MongoClientSettings settings = MongoClientSettings.builder()
19         .applyConnectionString(connectionString)
20         .build();
21     MongoClient mongoClient = MongoClient.create(settings);
22     MongoDatabase database = mongoClient.getDatabase("Home");
23
24
25     public MongoDatabase getDB(){
26         return database;
27     }
28
29 }

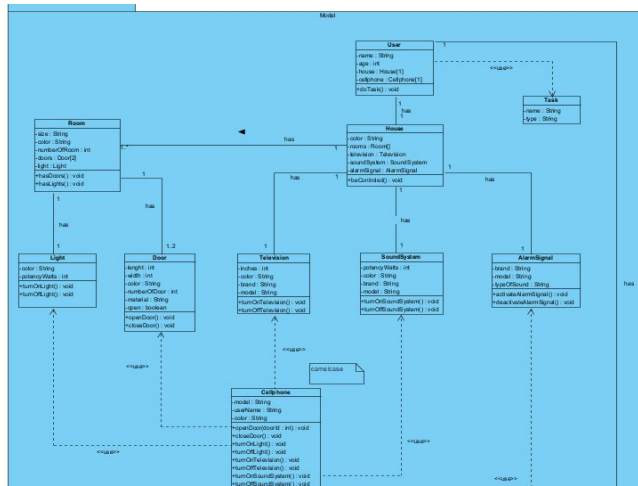
```

Connection is in the (Controller)

One design pattern

Diagrams consistency





ec.edu.espe.house.model

- AlarmSignal.java
- Device.java
- Door.java
- House.java
- Light.java
- Person.java
- RemoteControl.java
- Room.java
- SoundSystem.java
- Television.java
- User.java

## Unit tests

```

Source
104 double expResult = -34.54F;
105 double result = instance.calculateHighOfTv(diagonalSize);
106 assertEquals(expResult, result, 0.01);
107
108
109
110
111
112
113
114 @Test
115 public void testCalculateHighOfTvNegativeHighFloat() {
116     System.out.println("calculateHighOfTv");
117     double diagonalSize = -1516051.65F;
118     TelevisionDimensions instance = new TelevisionDimensions();
119     double expResult = -3551000.15F;
120     double result = instance.calculateHighOfTv(diagonalSize);
121     assertEquals(expResult, result, 0.01);
122 }
123
124 /**
125  * Test of calculateWidthOfTv method, of class TelevisionDimensions.
126  */
127 @Test
128 public void testCalculateWidthOfTvInteger1() {
129     System.out.println("calculateWidthOfTv");
130     double diagonalSize = 121;
131     TelevisionDimensions instance = new TelevisionDimensions();
132 }
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## WELCOME

### REGISTER TO NEW USERS

Choose these option to create a Data Base of House's users

[Add User](#)

### CONTROL THE HOUSE

Choose these option to control the devices and rooms of the house


[Control](#)

[Return](#)
[Exit](#)

inspector:all OK

GUI fields validation

### Add New User



Name:  Name format is OK

Last Name:  Last Name format is OK

C.I.:  Error !! Enter only float numbers from 0 to ...

Cellphone:  Error !! Enter only float numbers from 0 to ...

Gender

☐ Female
 ☐ Male

inspector: all OK


Functionality

[Select a TV to calculate its dimens...](#)

[Add](#)
[Remo...](#)
[Show TV List](#)
[Calculate TV Dimensi...](#)

ID Cloud	Id	Brand	Model	Room	Size	EnergySave	Status	Volum
6217937c2...	456456	nuewTV	f456fdd654	Bedroom 2	55	Yes	On	60

Message
×



The TV High is: 121.55 centimeters, and the TV width is 68.48 centimeters.

[OK](#)

all ok

MongoDB

Add New User

Name:

alex

Name format is OK

Last Name:

sanchez

Last Name format is OK

C.I.:

123456789

CI format is OK.

Cellphone:

321654987

Cellphone format is OK.

Gender

Female

Male

Add

Delete

Show Users

Return

Exit

ID Cloud	Name	Last Name	CI	Cellphone	Gender
62178f0b2b...	alex	sanchez	123456789	321654987	Male

Guitarra's Org - 202...

Access Manager

Billing

Project 0

Atlas

Realm

Charts

DEPLOYMENT

Database

Data Lake

DATA SERVICES

Triggers

Data API

SECURITY

Database Access

Network Access

Advanced

DataBaseMedicalPro

Home

Date

Find

Indexes

Schema Anti-Patterns

FILTER

{ field: 'value' }

QUERY RESULTS 1-1 OF 1

\_id: ObjectId("62178f0b2beb2e42add7c1a7")

Name: "alex"

Last Name: "sanchez"

CI: 123456789

Cellphone: 321654987

Gender: "Male"

TELEVISION

Id:

456456

Brand:

nuewTV

Model:

f456fdd654

Room:

Bedroom 2

Size (Inches):

55

Volume:

60

0

10

20

30

40

50

60

70

80

90

100

Save Energy

Yes

No

Status

On

Off

Add

Remo...

Show TV List

Calculate TV Dimensi...

Select a TV to calculate its dimens...

ID Cloud	Id	Brand	Model	Room	Size	EnergySave	Status	Volumen
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Return

Exit

Volume: 60

0 10 20 30 40 50 60 70 80 90 100

Select a TV to calculate its dims...

Add Remo... Show TV List Calculate TV Dimensi...

ID Cloud	Id	Brand	Model	Room	Size	EnergySave	Status	Volumen
6217937c2...	456456	nuewTV	f456fdd654	Bedroom 2	55	Yes	On	60

Return Exit

Home

Date

Television

FILTER { field: 'value' }

QUERY RESULTS 1-1 OF 1

```

_id: ObjectId("6217937c2beb2e42add7c1a9")
Id: 456456
Brand: "nuewTV"
Model: "f456fdd654"
Room: "Bedroom 2"
Size: "55"
EnergySave: "Yes"
Status: "On"
Volumen: "60"

```

inspector: all OK

Inspector: T4(The ½ java programmer )

Team: T5 (JavaLegends)

Project: MedicalPro

21 GUITARRA SANCHEZ JHON ALEXANDER

22 GUZMAN LOPEZ JOSE DAVID

23 INSUASTI LOPEZ JONATHAN ESTEBA

24 LANDAZURI SEGOVIA MATEO ISRAEL

25 LINCANGO CRIOLLO JOSE DANIEL

Leader:De la Cruz Alejandro

Leader. Guitarra Jhon

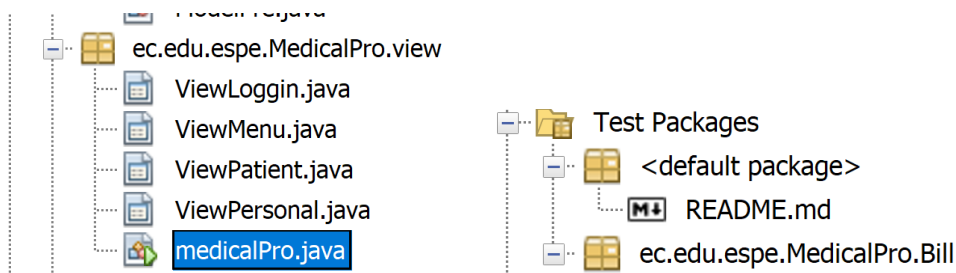
Modularity	9/10
Clean code	8/10
MVC	10/10
One design pattern	0 /10
Diagrams consistency	7.5/10
Unit tests	10/10
GUI navigability	9/10
GUI fields validation	0/10
Functionality	10/10
MongoDB	10/10

TOTAL 73.5/100

## MODULARITY

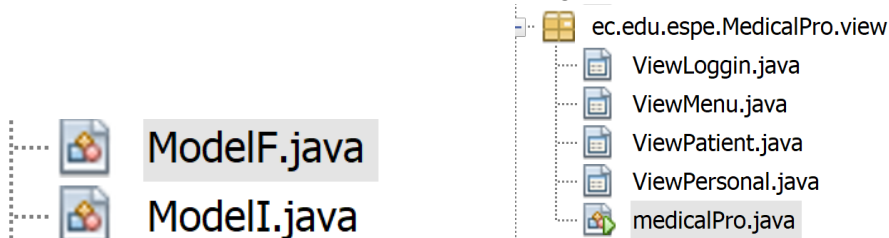
\*It has a package of more than one, it does not comply with the concept of modularity.





## CLEAN CODE

- \* The names of the classes are not understandable, does not comply with the concept of clean code
- \* The medical pro class is not in the package it should be.

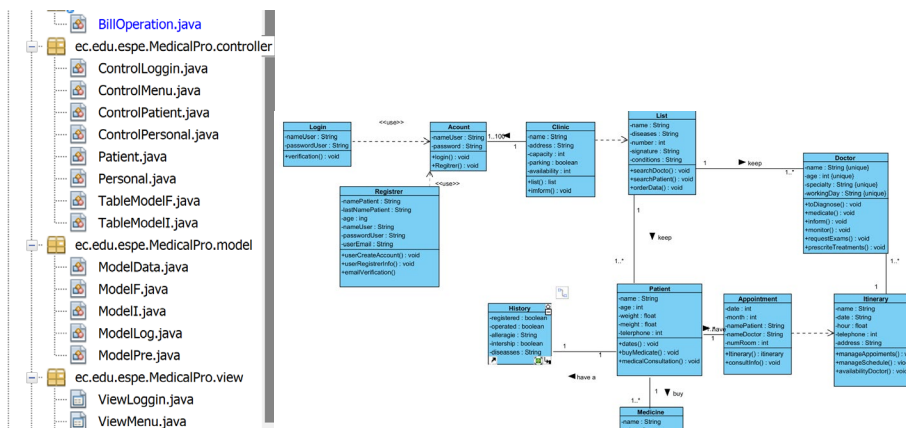


## MODEL, CONTROLLER AND VIEW

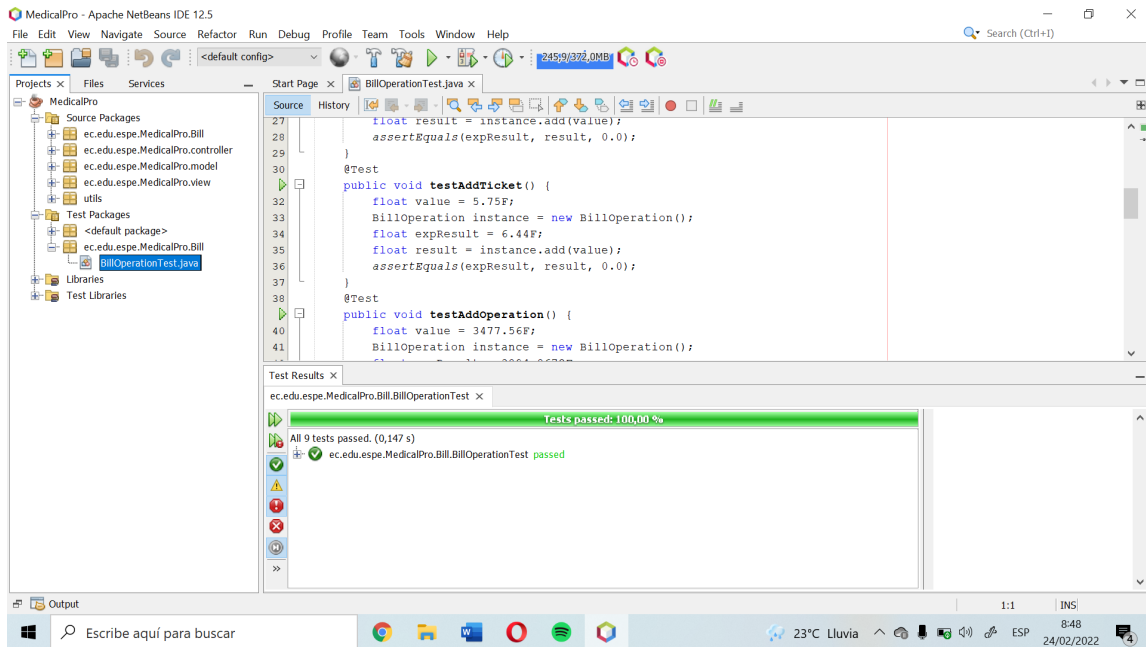
All is it ok.

## ONE DESIGN PATTERN DOES NOT HAVE

## DIAGRAMS CONSISTENCY

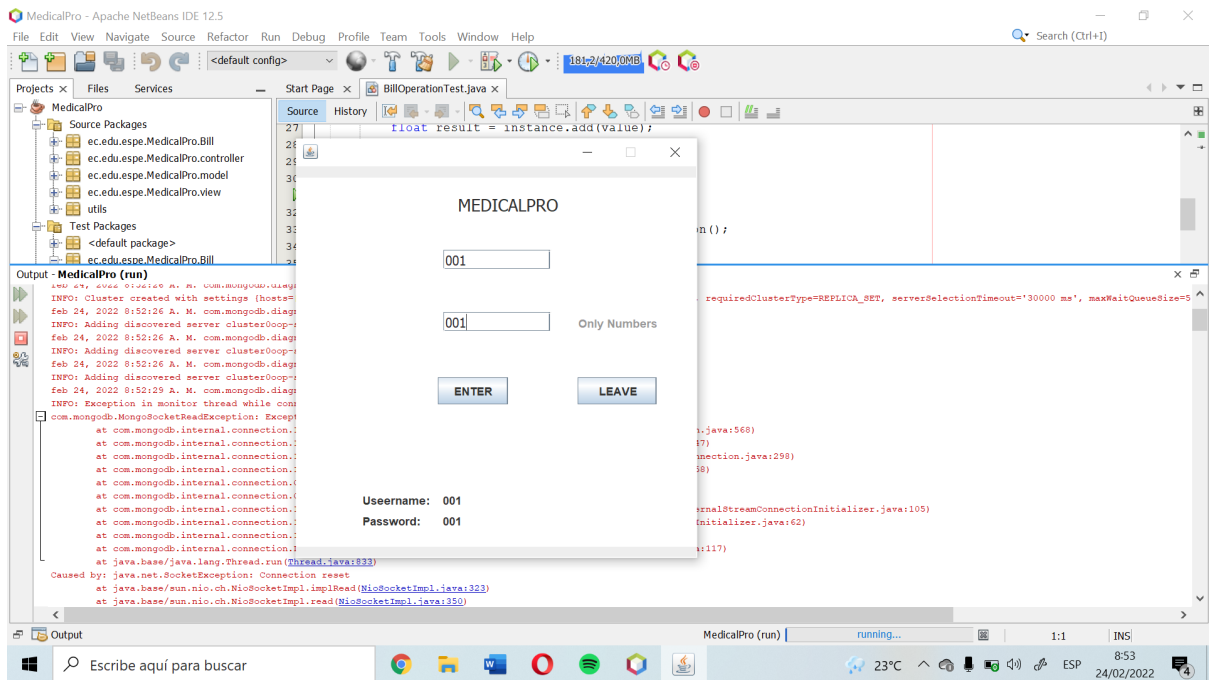


## UNIT TEST

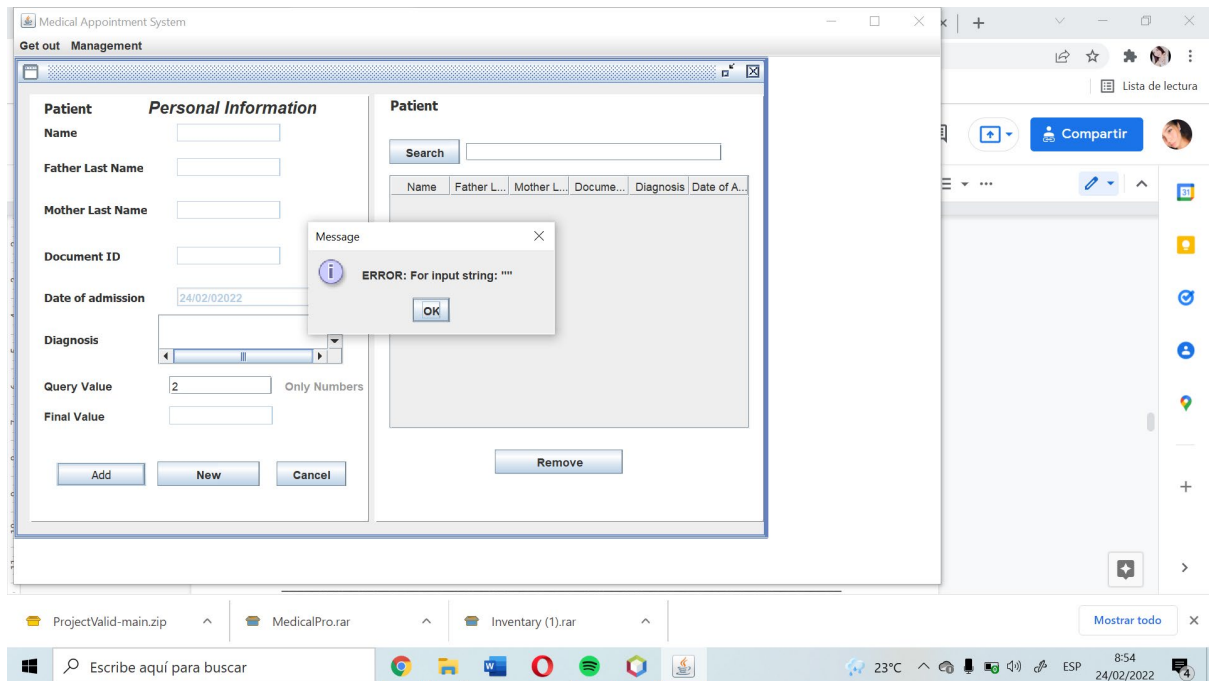


## GUI NAVIGABILITY

its Ok



\*Error inconsistency



## GUI FIELDS VALIDATION

\*all right, if you add the data

