

UNIVERSIDAD DE LAS FUERZAS ARMADAS

ESPE



**Object-oriented programming**

**NRC: 9642**

**U2 Workshop N° 40**

**Topic: Final Project Inspection**

**Ing. Jorge Edison Lascano. PhD**

**Rubric:**

<b>Project GitHub</b>		<b>/25 (Individual Contribution)</b>
<b>Project Review (Inspection)</b>		<b>/25</b>
Requirements and modeling (updated and design patterns)		/5
Principles,CleanCode, Pitfalls		/5
Functional Requirements user test (No CRUD operations)		/5
MongoDB		/5
Design patterns code		/5
<b>Project Maintenance</b>		<b>/25 (Time effort)</b>
new user / user type	/10	
report screen	/10	
print out	/5	
<b>Project Letter</b>		<b>/25 (Letter of acceptance or review)</b>

**Evidence:****Project GitHub****Project Review (Inspection)**

Requirements and modeling (updated and design patterns)	
Principles,CleanCode, Pitfalls	
Functional Requirements user test (No CRUD operations)	7:25
MongoDB	
Design patterns code	

**Project Maintenance****Project Letter**

**Team 6:** Code Warriors      **Leader:** Edison Verdesoto

1. QUISHPE LLUMIQUINGA JOHN MATEO
2. TIPAN QUINTO LEONEL ALEJANDRO
3. VERDESOTO SEGOVIA EDISON DAMIAN

**Inspector:** Team 1 Jsons      **Leader:** Yeshua Amador

**Project:** S&O HardwareStore

**GitHub:** [https://github.com/EDVerdesoto/T06\\_SandO-System.git](https://github.com/EDVerdesoto/T06_SandO-System.git)

**MongoDB Compass:**

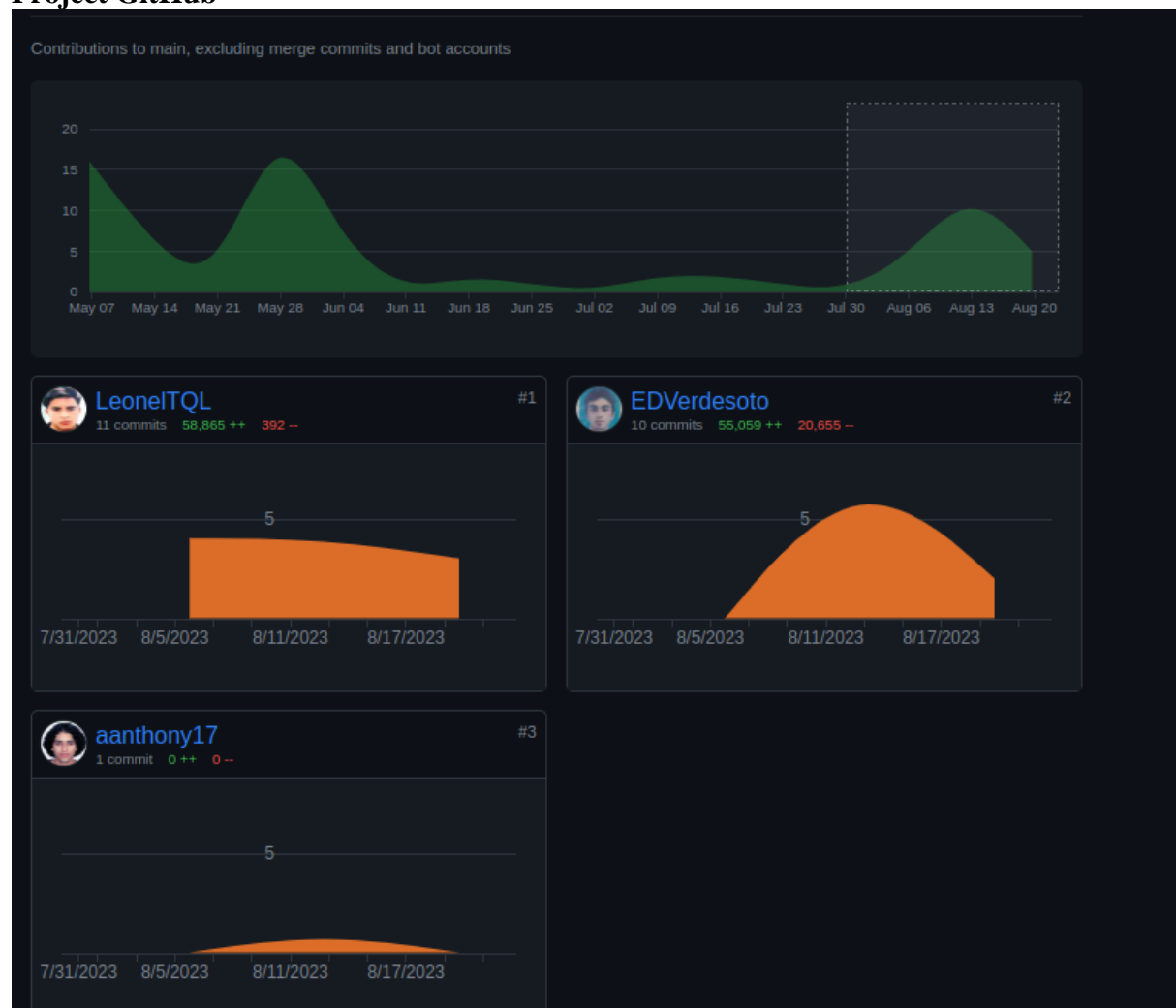
mongodb+srv://latipan06:latipan06@cluster0.kawghe4.mongodb.net/?retryWrites=true&w=majority

**Grade:**      **PR:** /25,    **PM:** /25, **Letter:** /25    →44 /75

**Rubric:**

**Project Review (Inspection)**      **17.5/25**

Requirements and modeling (updated and design patterns)	4/5
Principles,CleanCode, Pitfalls	4/5
Functional Requirements user test (No CRUD operations)	4.5/5
MongoDB	5/5
Design patterns code	0/5
Project Maintenance	10/25 (Time effort)
new user / user type	0/10
report screen	5/10
print out	5/5
Project GitHub	/25 (Individual Contribution)
Project Letter	15/25 (Letter of acceptance or review) missing contact information
Evidence:	
Project GitHub	

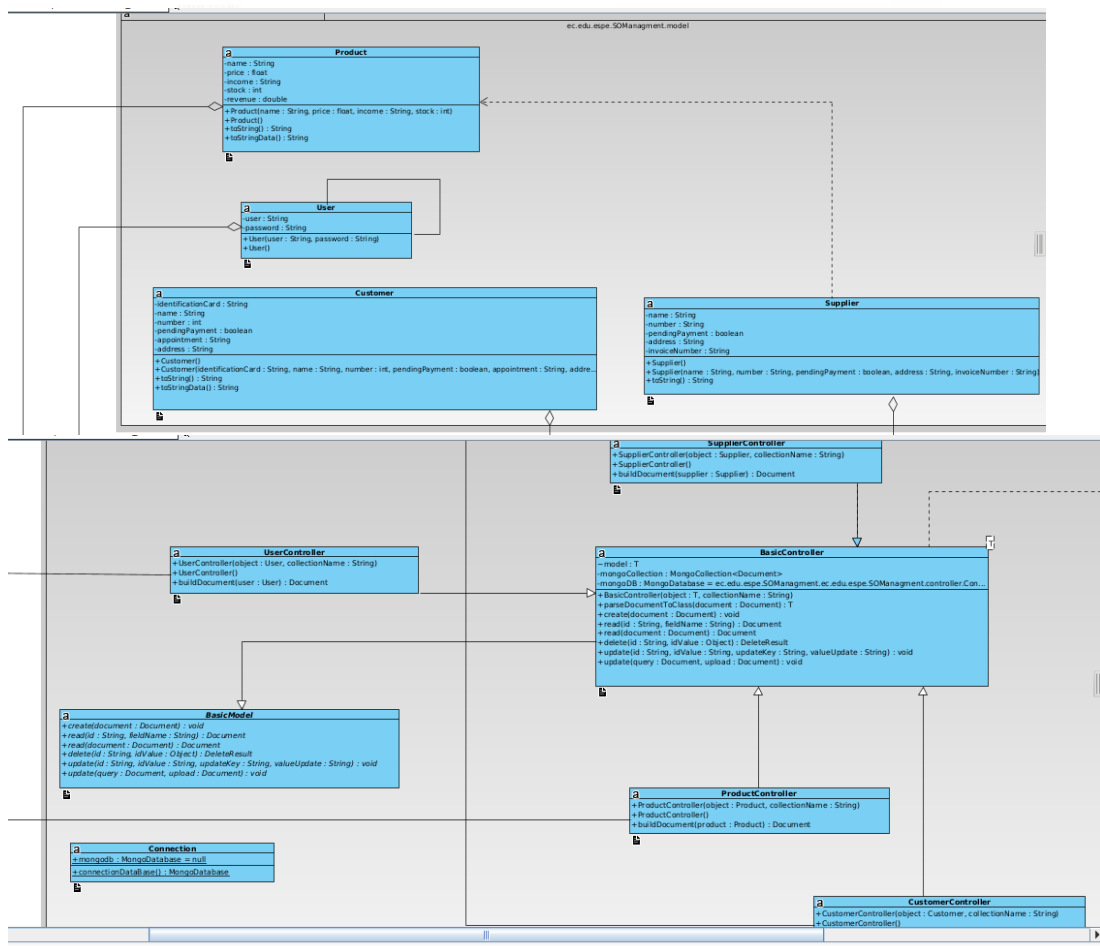


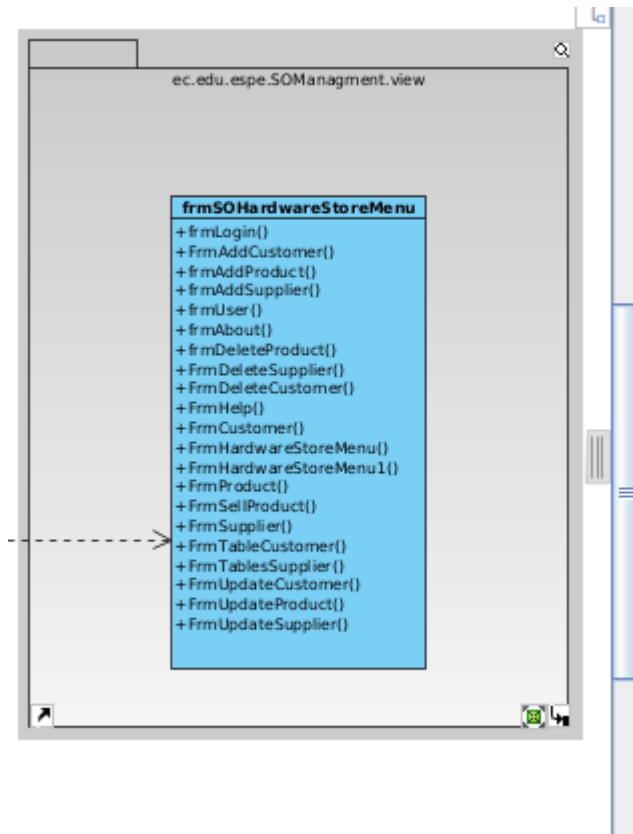
**Project Review (Inspection)**  
**Requirements and modeling (updated and design patterns)**

### 3.2. Functions

The software shall have the following functions:

- **Inventory management:**
  - Add new inventory items: The user shall be able to add new items to the inventory database.
  - Delete inventory items: The user shall be able to delete items for the inventory database.
  - Update inventory items: The user shall be able to update the information of existing items in the inventory database.
  - View inventory status: The user shall be able to view the current status of the inventory, including the quantity in stock and the location of the inventory.
  - Calculate taxes and profits: The software shall automatically calculate the IVA and 30% of the products to determine the store's profit.
- User management: The program must allow more than one user.
- Sell Products: Update the BD by selling products but don't show the bill.





```

/* @author Edison Verdesoto, Code Warriors, DCC0-ESPE
 */
public class Decimals {
    public static Double roundToTwoTenths(Double amountToRound){
        Double amountRounded;
        int dollars = (int) (amountToRound/1) ;
        Double cents = (amountToRound%1)*100;

        if(cents == 0){
            amountRounded = amountToRound;
        }
        else {
            cents = (double) Math.round(cents);
            amountRounded = dollars + (cents/100);
        }

        return amountRounded;
    }
}

```

## Principles,CleanCode, Pitfalls

```

public static boolean validateID(String identificationCard) {

    int suma = 0;

    if (identificationCard.length() != 10) {

        return false;
    }

    for (int i = 0; i < 9; i++) {
        int digit = Integer.parseInt(identificationCard.charAt(index:i) + "");
        if (i % 2 == 0) {
            digit = digit * 2;
            if (digit > 9) {
                digit -= 9;
            }
        }
    }
}

```

```

        String identificationCard;
        String name;
        int number;
        boolean pendingPayment;
        boolean validateId = true;
        String appointment;
        String address;

        identificationCard = txtId.getText();
        name = txtName.getText();
        number = Integer.parseInt(txtNumber.getText());
        pendingPayment = false;
        appointment = formatDate.format(date:txtDateService.getDate());
        address = txtAddress.getText();

        validateId = IdentificationCardController.validateID(identificationCard);

```

### Functional Requirements user test (No CRUD operations)

**Venta de Producto**

Nombre

Cantidad

**Venta de Producto**

**Message**

*i* Venta realizada y stock actualizado en la base de datos

Cantidad

–Second functional requirement: PVP with IVA and 30% of the initial price



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□

×

## Producto

Nombre

Tijeras

Fecha de ingreso

24 ago 2023



Precio

15

Stock


10

Agregar

Volver

Message

×



Successfully created

OK

Productos				
Nombre	Fecha de ingreso	Costo	Stock	Precio de venta
Brochas lisas	11-07-2023	5.0	29	6.5
SERRUCHO	16-07-2023	30.0	20	39.0
Pintura en spray	14-07-2023	20.0	17	26.0
Cemento de cont...	17-07-2023	4.0	64	5.2
Tornillo en cruz	12-08-2023	14.0	18	18.2
Tornillo plano	25-07-2023	50.0	89	65.0
Destornillador	25-07-2023	20.5	83	26.65
Martillo	25-07-2023	20.5	89	26.65
Cinta de embalaje	25-07-2023	20.5	23	26.65
piintura	11-08-2023	23.0	3	29.9
Canastas	22-08-2023	20.0	20	26.0
uwu	19-08-2023	1.0	0	1.3
Tijeras	24-08-2023	15.0	10	19.5

Creating Users Modified:

MongoDB Compass - cluster0.kawgh4.mongodb.net/S&OHardWareStore.customers

My Queries  
Databases  
Search

cluster0.kawgh...  
Documents  
S&OHardWareSt...

S&OHardWareStore customers  
S&OHardWareStore.customers

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find Options

ADD DATA EXPORT DATA 1-5 of 5

```
pendingPayment: false
appointment: "10-08-2023"
address: "conocoto"

_id: ObjectId('64d970b758240f3a33f95021')
identificationCard: "1714236252"
name: "sandra ortiz"
number: 987063377
pendingPayment: false
appointment: "11-08-2023"
address: "conocoto"

_id: ObjectId('64e7544151bc1860f1b51986')
identificationCard: "1758932568"
name: "Pablo Carrera"
number: 32154896
pendingPayment: false
appointment: "24-08-2023"
address: "Fondo de Bikini"
```

My Queries  
Databases  
Search

cluster0.kawgh...  
Documents  
S&OHardWareSt...

S&OHardWareStore customers  
S&OHardWareStore.customers

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ADD DATA EXPORT DATA 1-5 of 5

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identificationCard: "1758932568"
name: "Pablo Carrera"
number: 32154896
pendingPayment: false
appointment: "24-08-2023"
address: "Fondo de Bikini"
```

MongoDB

5/5

cluster0.kawgh...  
Documents  
S&OHardWareSt...

S&OHardWareStore products  
S&OHardWareStore.products

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find Options

ADD DATA EXPORT DATA 1-12 of 12

```
name: "pinnura"
price: 23
income: "11-08-2023"
stock: 3
PVP: 29.9

_id: ObjectId('64e5390aefb530a4d245ebc')
name: "Canastas"
price: 20
income: "22-08-2023"
stock: 20
PVP: 26

_id: ObjectId('64e74d1d51bc1860f1b51985')
name: "uwu"
price: 1
income: "19-08-2023"
stock: 50
PVP: 1.3
```

-Second functional requirement updated in database



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```
_id: ObjectId('64e7525af195e276e75953ed')
name: "Tijeras"
price: 15
income: "24-08-2023"
stock: 10
PVP: 19.5
```

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-Third functional requirement updated in database  
CRUD modifications in MongoDB

**Design patterns code      0/5**

**Project Maintenance**  
**Project Letter**