xideral

Juan Jesús Ávila Mota

Examen Semana02

Academia Java Xideral

Noviembre 2022

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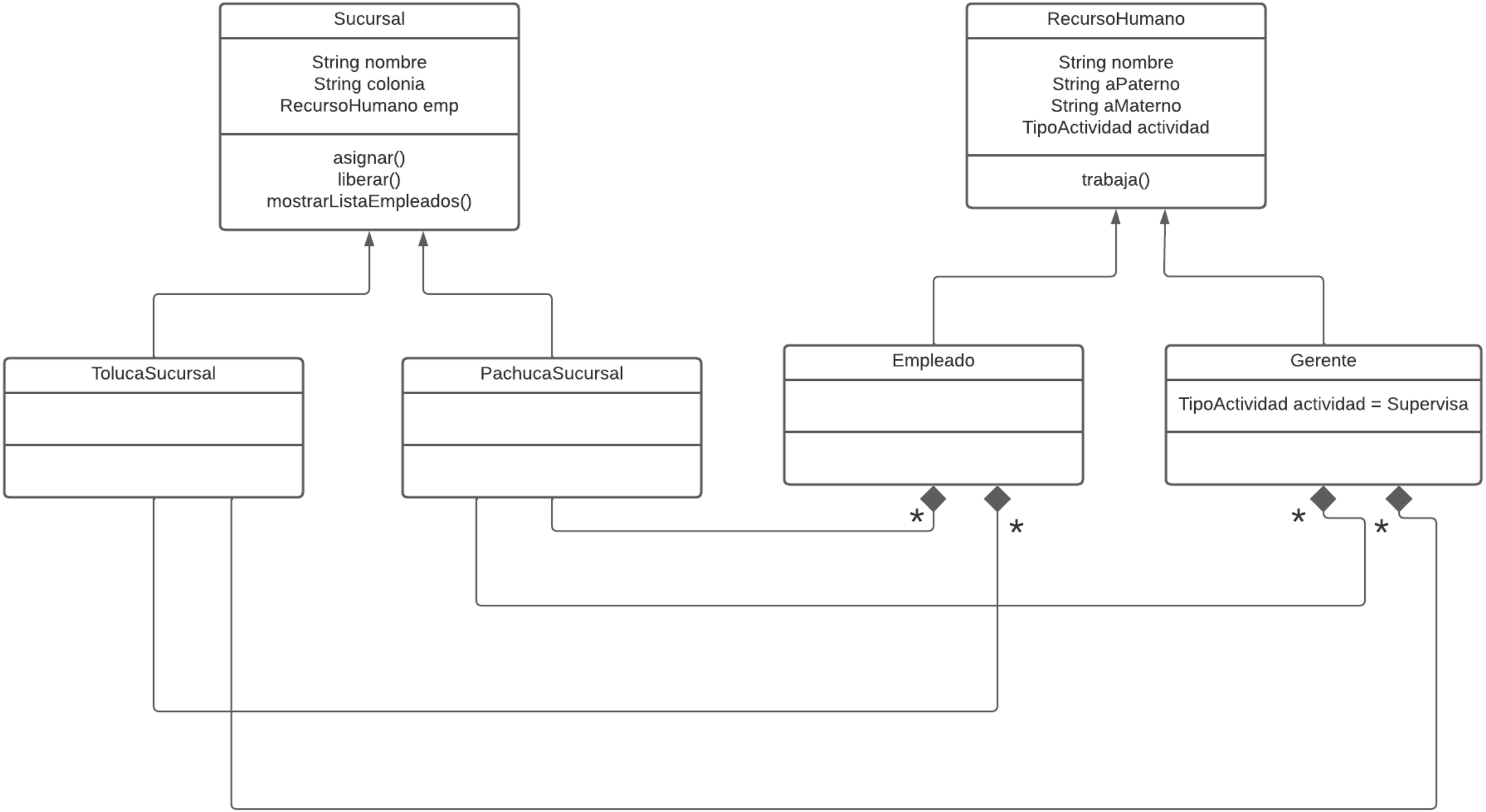
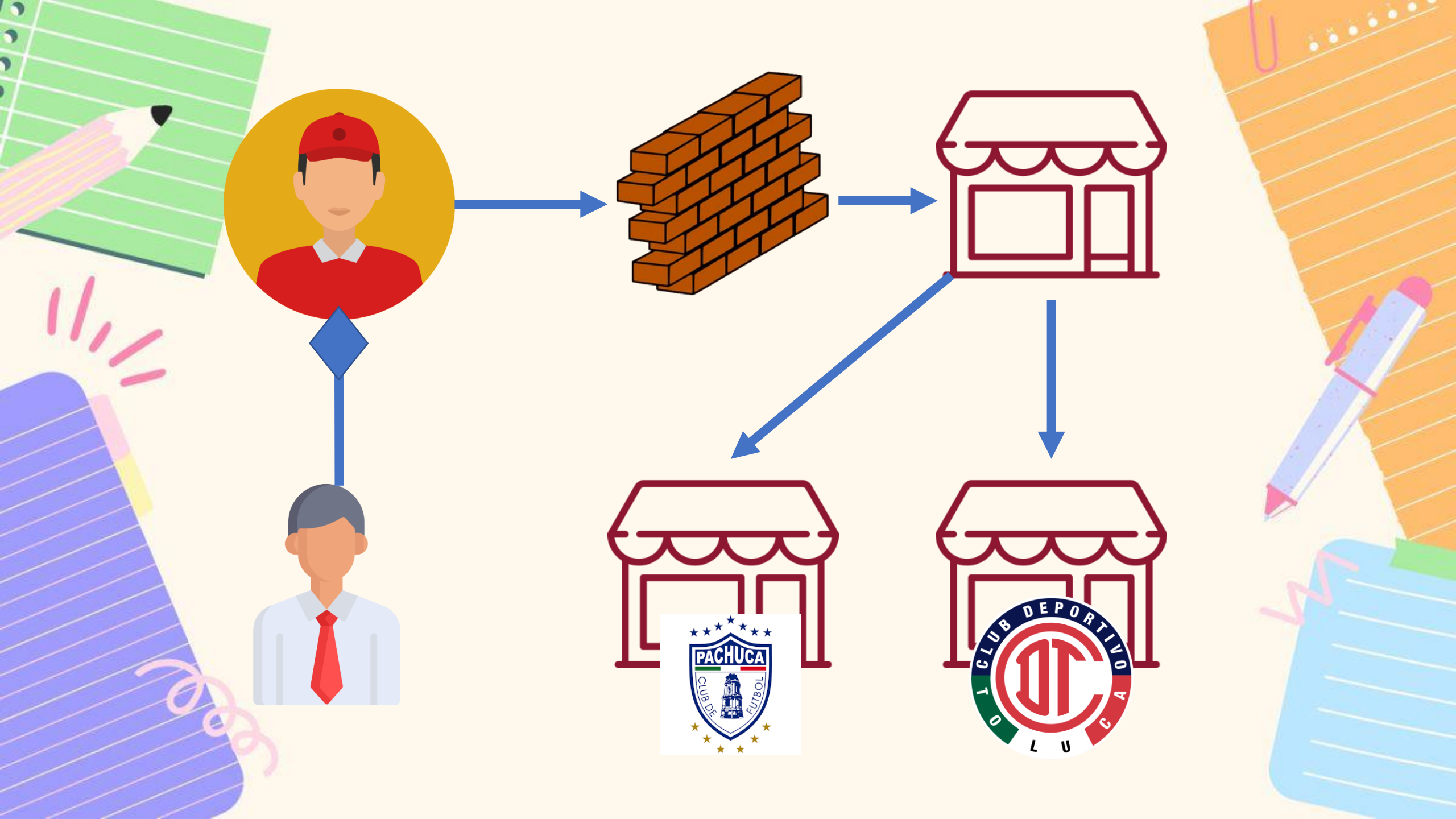
Dependency Inversion (DI)


Sucursal
String nombre
String colonia
RecursoHumano emp
asignar()
liberar()
mostrarListaEmpleados()
RecursoHumano
String nombre
String aPaterno
String aMaterno
TipoActividad actividad
trabaja()
TolucaSucursal
PachucaSucursal
Empleado
Gerente
TipoActividad actividad = Supervisa
*
*
*
*


PACHUCA
CLUB DE FUTBOL
CLUB DEPORTIVO
TOLUCA

Semana02 - SucursalesID/src/ProductosAvila.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer

- FinalPropositos
- LibreriaPolimorfismo
- SucursalesID [XideralAcademiaJava main]
  - JRE System Library [JavaSE-1.8]
  - src
    - (default package)
      - Empleado.java
      - Gerente.java
      - InvalidoException.java
      - PachucaSucursal.java
      - ProductosAvila.java
      - RecursoHumano.java
      - Sucursal.java
      - TipoActividad.java
      - TolucaSucursal.java

Sucursal.java | ProductosAvila.java | Gerente.java | Empleado.java | RecursoHumano.java

```
1  import java.util.InputMismatchException;
2  import java.util.NoSuchElementException;
3  import java.util.Scanner;
4
5  public class ProductosAvila {
6
7      public static void main(String[] args) throws InvalidoException  {
8          //Creando Instantancias recurso humano
9          RecursoHumano emp1 = new Gerente("Juan","Avila","Mota");
10         RecursoHumano emp7 = new Gerente("Edgar","Sánchez","Franco");
11         RecursoHumano emp2 = new Empleado("Juan","López","Ruiz",TipoActividad.ALMACEN);
12         RecursoHumano emp3 = new Empleado("Ricardo","Perez","Bedolla",TipoActividad.CAJA);
13         RecursoHumano emp4 = new Empleado("Erika","González","Vazquez",TipoActividad.VENTAS);
14         RecursoHumano emp5 = new Empleado("Monserrat","Torres","Romero",TipoActividad.LIMPIEZA);
15         RecursoHumano emp6 = new Empleado("Luis","Allende","Trejo",TipoActividad.VENTAS);
16         RecursoHumano emp8 = new Empleado("Joel","Olvera","Trejo",TipoActividad.VENTAS);
17         //Inyectando empleados a las sucursales
18         Sucursal s1 = new PachucaSucursal("Angéles","San Cayetano",emp1);
19         Sucursal s2 = new TolucaSucursal("Esperanza","La Floresta",emp1);
20         s1.asignar(emp1);
21         s1.asignar(emp2);
22         s1.asignar(emp3);
23         s1.asignar(emp8);
24         //s1.mostrarListaEmpleados();
25
26
27         s2.asignar(emp7);
28         s2.asignar(emp4);
```

Outline

- ProductosAvila
  - main(String[]) : void
  - validar(int) : void

Problems | Javadoc | Declaration | Console

<terminated> ProductosAvila [Java Application] C:\Program Files\Java\jre1.8.0_202\bin\javaw.exe (30 nov. 2022 20:55:20 – 20:55:25) [pid: 11560]

```
1
Empleados SucursalAngéles:
Juan Avila Mota SUPERVISAR
Juan López Ruiz ALMACEN
Ricardo Perez Bedolla CAJA
Joel Olvera Trejo VENTAS
```

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MVC

Request

Response

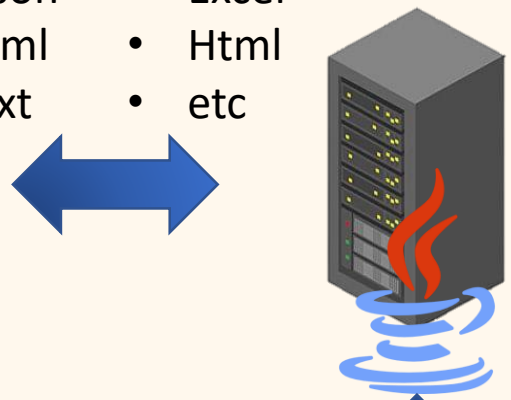
HTTP

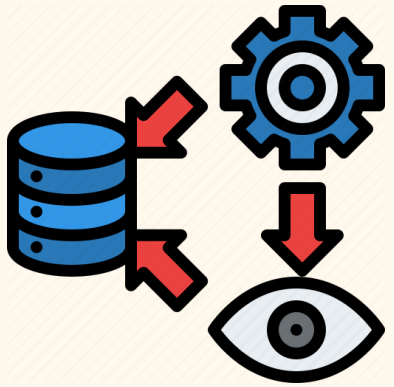
- get
- put
- post
- delete
- Etc.

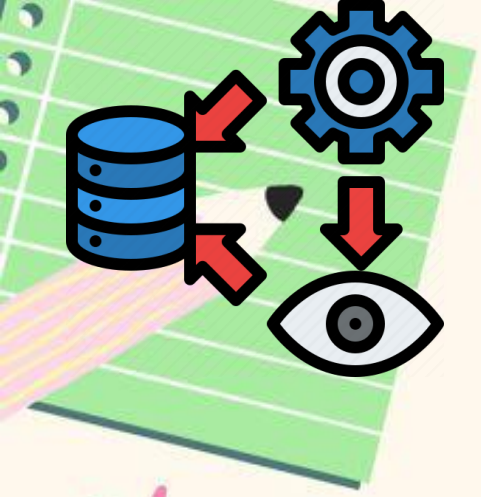
Response:

- Json
- Xml
- Txt

- Pdf
- Excel
- Html
- etc







Controller

invoke

Process and send

Build HTML, CSS, JS and remove Java code

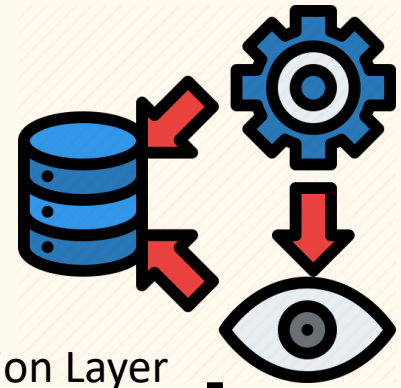
Model

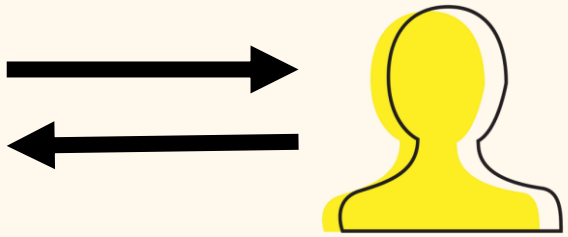
send

View

requests

response





Presentation Layer

Businnes Logic Layer

Data Access Layer

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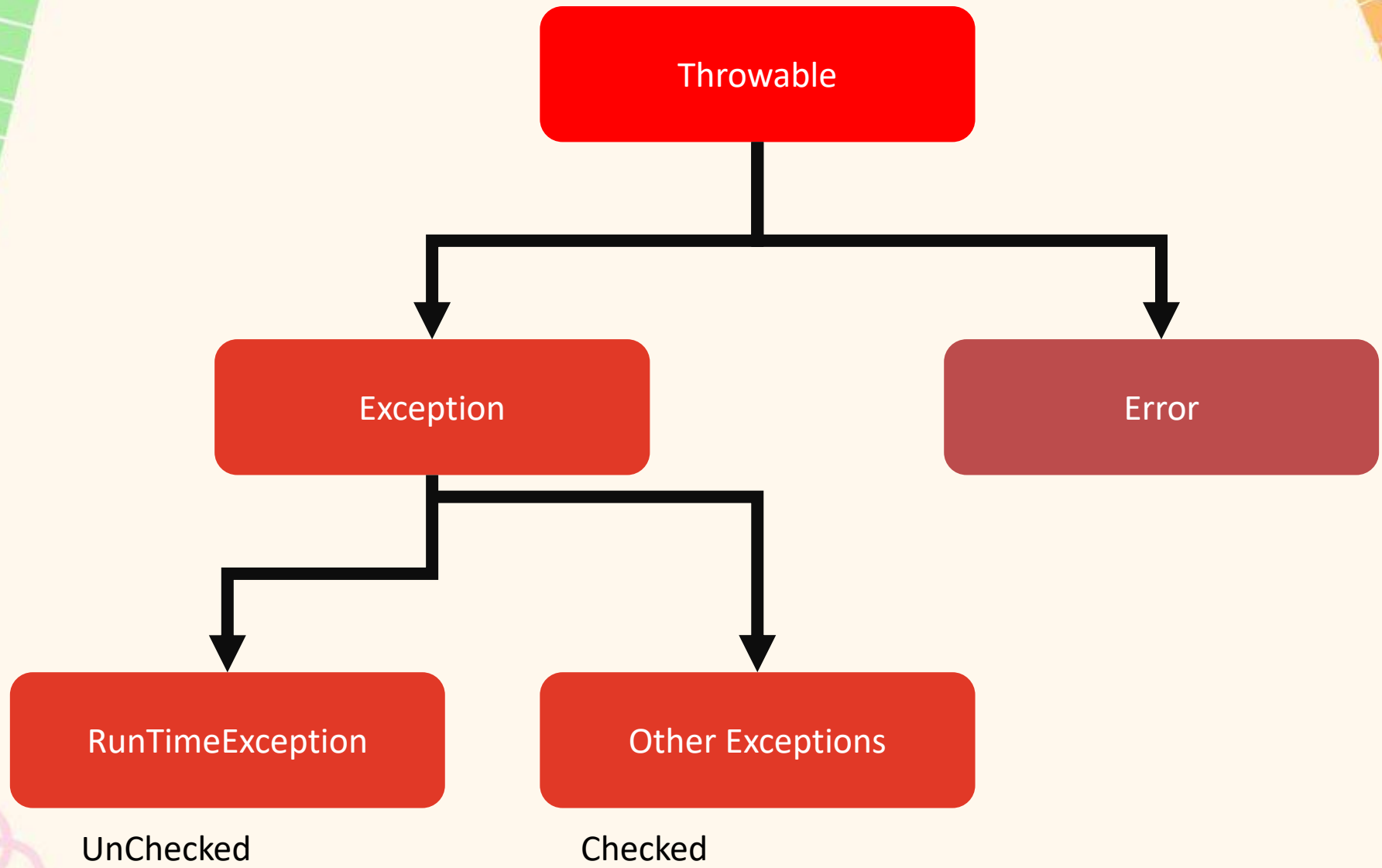
Types of Exceptions


Throwable
Exception
Error
RunTimeException
Other Exceptions
UnChecked
Checked

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Purposes of final

Semana02 - FinalPropositos/src/Principal.java - Eclipse IDE

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Package Explorer

- FinalPropositos [XideralAcademiaJava main]
  - JRE System Library [JavaSE-1.8]
  - src
    - (default package)
      - Antirrobo.java
      - Cangurera.java
      - Mochila.java
      - Principal.java
      - Producto.java
  - LibreriaPolimorfismo
- SucursalesID [XideralAcademiaJava main]
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Principal.java

```java
public class Principal {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        Mochila m1 = new Cangurera(150.0,0.30);
        final Mochila m2 = new Antirrobo(350.0,0.30);

        double m1Precio = m1.getPrecioVenta();
        System.out.println("Precio de m1 " +m1Precio);

        double m2Precio = m2.getPrecioVenta();
        System.out.println("Precio de m2 " +m2Precio);
        //m2 = new Cangurera(130,0.10);// no se puede cambiar de referencia


        m1 = new Antirrobo(500,20);
        m1Precio = m1.getPrecioVenta();
        System.out.println("Precio de m1 despues de cambiar de referencia: " +m1Precio);

        System.out.println("////////////////////////////////////");
        final StringBuilder sb = new StringBuilder("Hola");
        sb.append(" Mundo");
        //sb = sb.append(" Mundo");
        System.out.println(sb);
    }

}
```

Outline

- Principal
  - main(String[]) : void

Problems Javadoc Declaration Console

<terminated> Principal [Java Application] C:\Program Files\Java\jre1.8.0_202\bin\javaw.exe (30 nov. 2022 20:57:58 – 20:57:58) [pid: 6744]

```
Precio de m1 226.2
Precio de m2 527.8
Precio de m1 despues de cambiar de referencia: 12180.0
////////////////////////////////////
Hola Mundo
```

Writable Smart Insert 1 : 1 : 0

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Multicatch and Try with resources

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Sucursal.java | ProductosAvila.java | Gerente.java | Empleado.java | RecursoHumano.java

```
37          //Ejecución con multicatch
38          /*try(Scanner sr = new Scanner(System.in)){
39              if(sr.hasNextInt()) {
40              numeroSucursal = sr.nextInt();
41              validar(numeroSucursal);
42              switch(numeroSucursal) {
43              case 1 : s1.mostrarListaEmpleados();
44              break;
45              case 2 : s2.mostrarListaEmpleados();
46              break;
47              }
48              }
49          }catch(NumberFormatException |NoSuchElementException |InvalidoException e) {
50              //e.printStackTrace();
51              System.out.println("Dato Invalido");
52              main(args);
53          }*/
54
55          //Ejecución con try with resources
56          try(Scanner sr = new Scanner(System.in)){
57          if(sr.hasNextInt()) {
58          numeroSucursal = sr.nextInt();
59          validar(numeroSucursal);
60          switch(numeroSucursal) {
61          case 1 : s1.mostrarListaEmpleados();
62          break;
63          case 2 : s2.mostrarListaEmpleados();
64          break;
```

Outline

- ProductosAvila
  - main(String[]) : void
  - validar(int) : void

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```

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Asynchronous vs Synchronous

SYNCHRONOUS

Process 1

Process 2

Process 3

Process 4

ASYNCHRONOUS

Process 1

Process 2

Process 3

Process 4