Método "Builder" - Constructor de pizzas completo

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Modelos de Programación I Grupo 81

Docente de la asignatura:

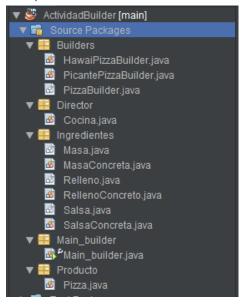
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Paquetes



Builders

HawaiPizzaBuilder.java

```
package Builders;
import Ingredientes.Masa;
import Ingredientes.MasaConcreta;
import Ingredientes.Relleno;
import Ingredientes.RellenoConcreto;
import Ingredientes.Salsa;
import Ingredientes.SalsaConcreta;
import Producto.Pizza;

public class HawaiPizzaBuilder extends PizzaBuilder {

    public HawaiPizzaBuilder() {
        super.pizza = new Pizza();
    }

    public void buildMasa() {
        Masa tipoMasa = new MasaConcreta();
        pizza.setMasa(tipoMasa.masaSuave());
    }

    public void buildSalsa() {
        Salsa tipoSalsa = new SalsaConcreta();
        pizza.setSalsa(tipoSalsa.salsaDulce());
    }

    public void buildRelleno() {
        Relleno tipoRelleno = new RellenoConcreto();
        pizza.setRelleno(tipoRelleno.rellenoChorizo());
    }
}
```

PicantePizzaBuilder.java

```
package Builders;
 2 — import Ingredientes.Masa;
    import Ingredientes.MasaConcreta;
    import Ingredientes.Relleno;
    import Ingredientes.RellenoConcreto;
    import Ingredientes.Salsa;
    import Ingredientes.SalsaConcreta;
    Limport Producto.Pizza;
    public class PicantePizzaBuilder extends PizzaBuilder {
        public PicantePizzaBuilder() {
            super.pizza = new Pizza();
        public void buildMasa() {
🦬 🖃
            Masa tipoMasa = new MasaConcreta();
            pizza.setMasa(tipoMasa.masaCocida());
        public void buildSalsa() {
%↓ 🖃
            Salsa tipoSalsa = new SalsaConcreta();
            pizza.setSalsa(tipoSalsa.salsaPicante());
🦬 🗀
        public void buildRelleno() {
            Relleno tipoRelleno = new RellenoConcreto();
            pizza.setRelleno(tipoRelleno.rellenoPepinillos());
```

PizzaBuilder.java

```
package Builders;
import Producto.Pizza;

public abstract class PizzaBuilder {

protected Pizza pizza;

public Pizza getPizza() {
 return pizza;
}

public abstract void buildMasa();

public abstract void buildSalsa();

public abstract void buildRelleno();

public abstract void buildRelleno();
}
```

Director

Cocina.java

```
package Director;

import Builders.PizzaBuilder;

import Producto.Pizza;

public class Cocina {

private PizzaBuilder pizzaBuilder;

public Pizza cocinarPizza(PizzaBuilder pb) {
    pizzaBuilder = pb;
    pizzaBuilder.buildMasa();
    pizzaBuilder.buildSalsa();
    pizzaBuilder.buildRelleno();
    return pizzaBuilder.getPizza();
}

}
```

Ingredientes

Masa.java

```
package Ingredientes;

public abstract class Masa {
    public abstract String masaSuave();
    public abstract String masaCocida();
}
```

Relleno.java

```
package Ingredientes;

public abstract class Relleno {
    public abstract String rellenoChorizo();
    public abstract String rellenoPepinillos();
}
```

Salsa.java

```
package Ingredientes;

public abstract class Salsa {
   public abstract String salsaPicante();
   public abstract String salsaDulce();
}
```

MasaConcreta.java

```
package Ingredientes;

public class MasaConcreta extends Masa {

    @Override
    public String masaSuave() {
        return "Masa suave";
    }

@Override
    public String masaCocida() {
        return "Masa cocida";
    }

public String masaCocida() {
        return "Masa cocida";
    }
}
```

RellenoConcreto.java

SalsaConcreta.java

```
package Ingredientes;

public class SalsaConcreta extends Salsa {

    @Override
    public String salsaPicante() {
        return "Salsa picante";
    }

@Override
    public String salsaDulce() {
        return "Salsa dulce";
    }

public String salsaDulce() {
        return "Salsa dulce";
    }
}
```

Main builder

Main_builder.java

```
package Main_builder;

import Director.Cocina;
import Builders.HawaiPizzaBuilder;
import Builders.PizzaBuilder;
import Builders.PizzaBuilder;
import Producto.Pizza;

public class Main_builder {

public static void main(String[] args) {
    Cocina cocina = new Cocina();

    PizzaBuilder objHawaiPizzaBuilder = new HawaiPizzaBuilder();
    PizzaBuilder objPicantePizzaBuilder = new PicantePizzaBuilder();

Pizza pizza = cocina.cocinarPizza(objPicantePizzaBuilder);
}

public static void main(String[] args) {
    Cocina cocina = new Cocina();
    PizzaBuilder objHawaiPizzaBuilder = new HawaiPizzaBuilder();
    Pizza pizza = cocina.cocinarPizza(objPicantePizzaBuilder);
}
```

Producto

Pizza.java

```
package Producto;
public class Pizza {
    private String masa;
    private String salsa;
    private String relleno;
    public void setMasa(String masa) {
        this.masa = masa;
    public void setSalsa(String salsa) {
        this.salsa = salsa;
    public void setRelleno(String relleno) {
        this.relleno = relleno;
    public String getMasa() {
    public String getSalsa() {
    public String getRelleno() {
```