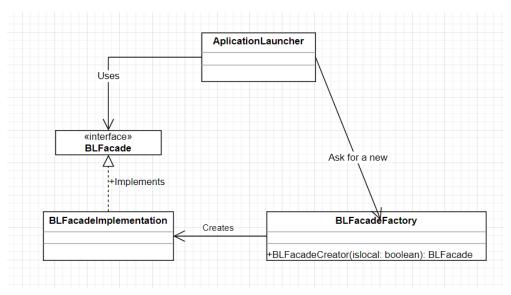
RIDES PROJECT PATTERNS EXTENSIONS

Software Ingenieritza II 09/11/2024



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1. Factory Patroia



- Aldaketak:
- BLFacadeFactorysortu, zeinetan beste BLFacadeimplementation deitzen dioenean, BLFacade berri bat sortuko du, kasu honetan boolear bat pasatuz, lokala edo urrutikoa sortuko du.

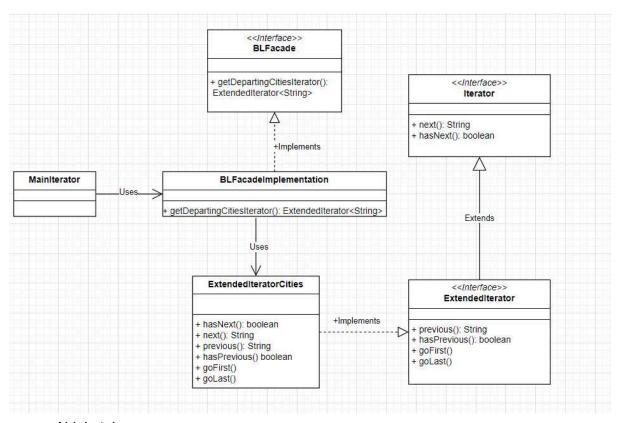
BLFacadeFactory klasean:



Aplication Launcher klasean:

```
BLFacadeFactory factory = new BLFacadeFactory();
appFacadeInterface = factory.BLFacadeCreator(c.isBusinessLogicLocal());
```

2. Iterator Patroia



- Aldaketak:
- 1. ExtendedIterator interfazea sortu, Iterator inferfazea implementatzen duena.
- 2. ExtendedIteratorCities klasea sortu ExtendedIterator implementatzen duena.
- 3. BLFacade interfazean eta BLFacadeimplementation klasean getDepartingCitiesIterator() metodoa implementatu.



```
implements ExtendedIterator<String> {
private List<String> citiesList;
private int pos;
   pos = 0;
    if(pos <= citiesList.size() - 1) return true;</pre>
    String ret = citiesList.get(pos);
    this.pos++;
    return ret;
    this.pos--;
public boolean hasPrevious() {
   this.pos = 0;
    this.pos = citiesList.size();
```

BLFacade interfazean:

public ExtendedIterator<String> getDepartingCitiesIterator();

BLFacadeImplementation klasean:

```
gOverride
public ExtendedIterator<String> getDepartingCitiesIterator() {
    ExtendedIterator<String> i = new ExtendedIteratorCities(this.getDepartCities());
    return i;
}
```



```
public class MainIterator {

public static void main(String[] args) {

    // the BL is local
    boolean isLocal = true;

    BLFacade blFacade = new BLFacadeFactory().BLFacadeCreator(isLocal);
    ExtendedIterator<String> i = blFacade.getDepartingCitiesIterator();

    String c;

    System.out.println(" ");
    System.out.println("FROM LAST TO FIRST");
    i.goLast(); // Go to last element
    while (i.hasPrevious()) {
        c = i.previous();
        System.out.println(c);
    }

    System.out.println(" ");
    System.out.println("FROM FIRST TO LAST");
    i.goFirst(); // Go to first element
    while (i.hasNext()) {
        c = i.next();
        System.out.println(c);
    }
}
```

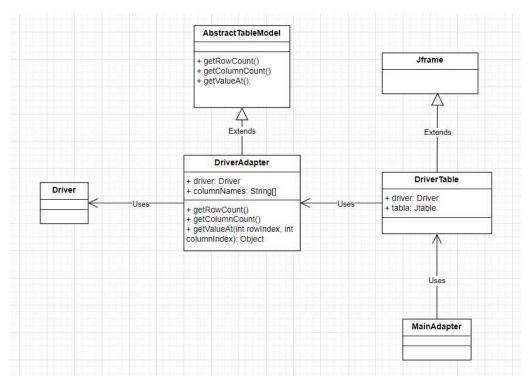
Emaitza:

```
cterminated> Mainiterator [Java Application] C:\Users\Alaitz19\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32x86_64_17.0.1x20211116-1657\jre\bin
Read from config.xml: businessLogicLocal=true databaseLocal=true dataBaseInitialized=true
File deleted
DataAccess opened => isDatabaseLocal: true
Db initialized
DataAccess created => isDatabaseLocal: true isDatabaseInitialized: true
DataAccess closed
nov 09, 2024 12:23:45 P. M. businessLogic.BLFacadeImplementation <init>
INFORMACION: Creating BLFacadeImplementation instance with DataAccess parameter
DataAccess opened => isDatabaseLocal: true
DataAccess closed
FROM LAST TO FIRST
Madrid
Irun
Donostia
Barcelona

FROM FIRST TO LAST
Barcelona
Donostia
Irun
Madrid
```



3. Adapter Patroia



Aldaketak:

- 1. DriverTable klasea sortu, DriverAdapter erabiliko duena.
- 2. DriverAdapter klasea sortu, AbstractTableModel klasea heredatzen duena
- 3. MainAdapter klasea sortu proba egiteko.

```
protected Driver driver;
      protected String[] columnNames =
0
          this.driver=d;
0
           return driver.getCreatedRides().size();
.
          return columnNames.length;
          Iterator<Ride> iterator = driver.getCreatedRides().iterator();
            Ride currentRide = null;
            for (int i = 0; i <= rowIndex; i++) {
               if(iterator.hasNext()) {
                   currentRide = iterator.next();
            if(currentRide == null) {
                 return currentRide.getFrom();
                 return currentRide.getTo();
                  return currentRide.getDate();
                  return currentRide.getnPlaces();
                 return currentRide.getPrice();
     1
```

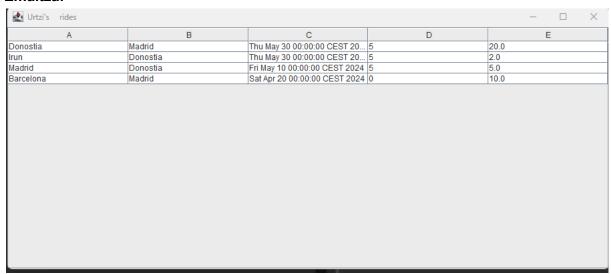
Kode honetan Driver (gidari) baten ibilaldiak (Ride objetuak) Java Swing-eko taula batean bistaratzea ahalbidetzen du. Taulak bost zutabe ditu: "From", "To", "Date", "Places", eta "Price", eta zutabe bakoitzean Ride objektuaren datu jakin bat erakusten da. getRowCount() metodoak errenkada kopurua (ibilaldi kopurua) itzultzen du, getColumnCount()-ek zutabe kopurua, eta getValueAt() metodoak errenkada eta zutabe jakin batean dagoen balioa itzultzen du.

```
package businessLogic;

import domain.Driver;

public class MainAdapter {
    public static void main(String[] args) {
        //the BL is local
        boolean isLocal = true;
        BLFacade blFacade = new BLFacadeFactory().BLFacadeCreator(isLocal);
        Driver d = blFacade.getDriver("Urtzi");
        DriverTable dt = new DriverTable(d);
        dt.setVisible(true);
    }
}
```

Emaitza:



4. Github repoa

https://github.com/Alaitz19/Rides24Complete