PRÀCTICA ARQUITECTURA DEL SOFTWARE

LLIURAMENT 1

Robert Almar Graupera Daniel García Romero Alvaro Martínez Arroyo Alex Vilarrubla Martín 1.

Joc de proves

```
package as,
import java.util.ArrayList;
import java.util.Terator;
import java.mageio.spi.ServiceRegistry;
import org.hibernate.Session;
import org.hibernate.Dost.registry.StandardServiceRegistry;
import org.hibernate.Dost.registry.StandardServiceRegistry;
import org.hibernate.Dost.registry.StandardServiceRegistryBuilder;
import org.hibernate.Dost.registry.StandardServiceRegistryBuilder;
import org.hibernate.Tost.org
public class AS {
            bblic static void main(String[] args) {
// TODO code application logic here
Configuration config = new Configuration();
config. addAnnotatedClass(Seient.class);
config. addAnnotatedClass(Local.class);
config.configure("hibernate.cfg.xml");
               new SchemaExport(config).create(true, true
               Standard Service Registry \ service Registry = new \ Standard Service Registry Builder().apply Settings (config.get Properties()).build(); \\
               SessionFactory factory = config.buildSessionFactory(serviceRegistry);
Session session = factory.openSession();
session.beginTransaction();
               ArrayList<Seient> s = new ArrayList⇔();
ArrayList<Seient> s2 = new ArrayList⇔();
               Local l = new Local();
l.setAdreca("Calle Desengaño 21");
l.setNom("Cine Iluro");
l.setSeients(s);
               Local l2 = new Local();
l2.setAdreca("Calle del Ave del Paraiso 7");
l2.setNom("Cine Lauren");
l2.setNom("Cine Lauren");
               CompoundKeySeient CKS = new CompoundKeySeient();
CKS.setColumna(1);
CKS.setFila(1);
CKS.setLocal(1);
               CompoundKeySeient CKS2 = new CompoundKeySeient(); CKS2.setColumna(1); CKS2.setFilo(1); CKS2.setLocal(12);
               CompoundKeySeient CKS3 = new CompoundKeySeient();
CKS3.setColumna(2);
CKS3.setFila(1);
CKS3.setCocal(12);
               Seient seient = new Seient();
seient.setCompoundKeySeient(CKS);
l.setSeient(seient);
               Seient seient2 = new Seient();
seient2.setCompoundKeySeient(CKS2);
l2.setSeient(seient2);
               Seient seient3 = new Seient();
seient3.setCompoundKeySeient(CKS3);
l2.setSeient(seient3);
                session.getTransaction().commit();
                System.out.println("GET ADREÇA DEL LOCAL L2: " + 12.getAdreca());
System.out.println("GET NOM DEL LOCAL L2: " + 12.getNom());
System.out.println("GET SEEINTS DEL LOCAL L2:");
Iterator<Seient> it = 12.getTotsSeients().iterator();
int i = 1:
```

Sortida consola

GET ADREÇA DEL LOCAL L2: Calle del Ave del Paraiso 7

GET NOM DEL LOCAL L2: Cine Lauren

GET SEIENTS DEL LOCAL L2:

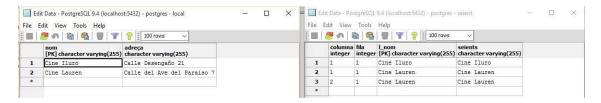
Seient 1

LOCAL DEL SEIENT: Cine Lauren FILA: 1 COLUMNA: 1

Seient 2

LOCAL DEL SEIENT: Cine Lauren FILA: 1 COLUMNA: 2

Sortida Postgres



Local.java

```
package as;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.Set;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.Table;
import javax.persistence.OneToMany;
/**
 *
* @author rober_000
@Entity
@Table(name = "LOCAL")
public class Local {
   @Id
    private String nom;
@Column(name = "Adreça")
     private String adreca;
    @OneToMany
@JoinColumn(name = "Seients")
    private Collection<Seient> seients;
    public Local(){}
public Local(String name){
         nom = name;
    public String getNom(){
          return nom;
    public String getAdreca(){
          return adreca;
    public Collection<Seient> getTotsSeients(){
          return seients;
    public void setNom(String name){
         nom = name;
    1
    public void setAdreca(String address){
         adreca = address;
    public void setSeients(Collection<Seient> s){
          seients = s;
    public void setSeient(Seient s){
          seients.add(s);
    }
}
```

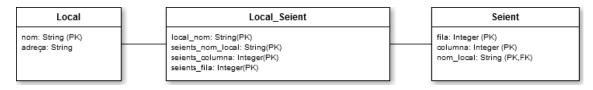
Seient.java

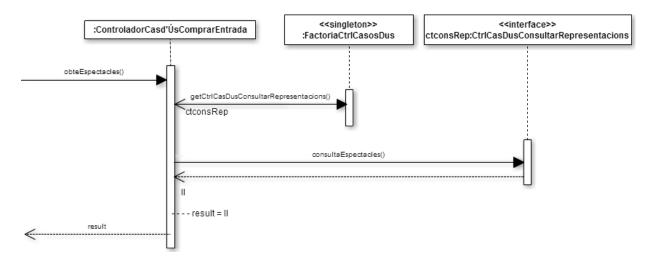
```
package as;
 * @author rober_000
import java.util.ArrayList;
import javax.persistence.Entity;
import javax.persistence.ForeignKey;
import javax.persistence.Id;
import javax.persistence.Table;
@Entity
@Table(name = "SEIENT")
public class Seient {
    @Id
    private CompoundKeySeient CKS;
    public Seient(){
    public CompoundKeySeient getCompoundKeySeient(){
        return CKS;
   }
   public void setCompoundKeySeient(CompoundKeySeient compoundKeySeient){
        CKS = compoundKeySeient;
}
```

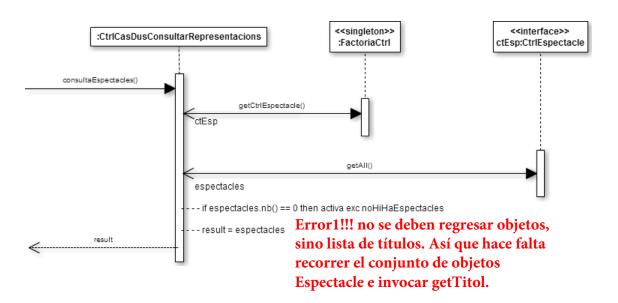
CompoundKeySeient.java

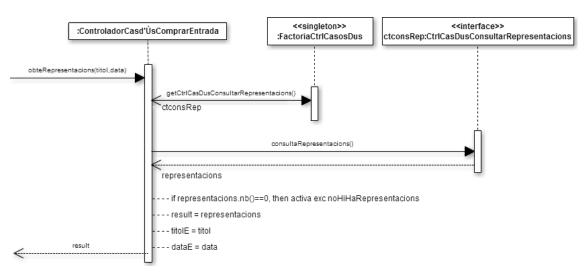
```
package as;
import java.io.Serializable;
import javax.persistence.Column;
import javax.persistence.Embeddable;
import javax.persistence.JoinColumn;
import javax.persistence.ManyToOne;
  * @author rober_000
@Embeddable
@Embeddable
public class CompoundKeySeient implements Serializable{
  @Column(name = "fila")
  private Integer fila;
  @Column(name = "columna")
  private Integer columna;
      @ManyToOne
//@Column(name = "Nom Local")
      private Local L;
      public CompoundKeySeient(){}
      public CompoundKeySeient(Local loc, Integer row, Integer column){
            L = loc;
fila = row;
            columna = column;
     public Integer getFila(){
    return fila;
     }
      public Integer getColumna(){
    return columna;
     public Local getLocal(){
     public void setFila(Integer row){
     public void setColumna(Integer column){
            columna = column;
     public void setLocal(Local local){
            L = local;
}
```

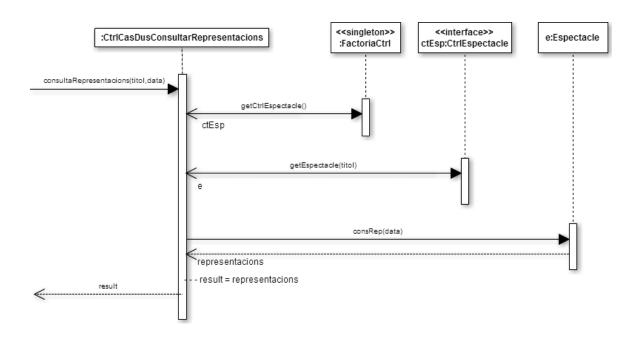
Esquema de la base de dades

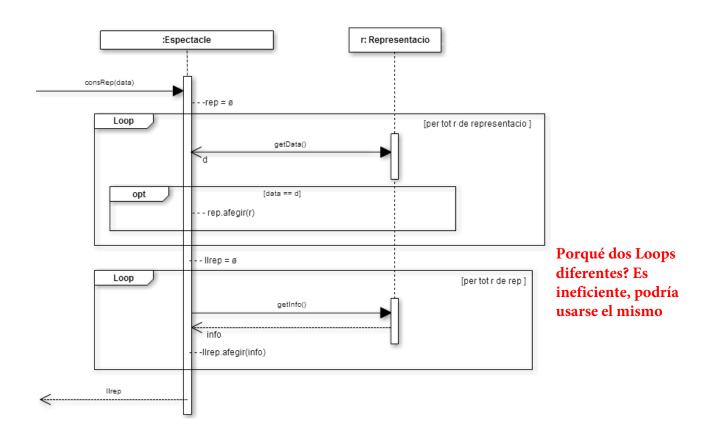


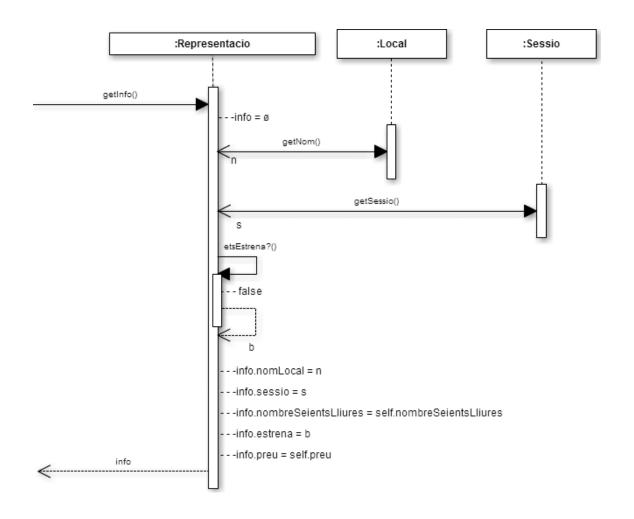


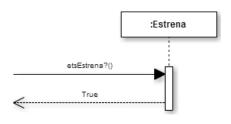


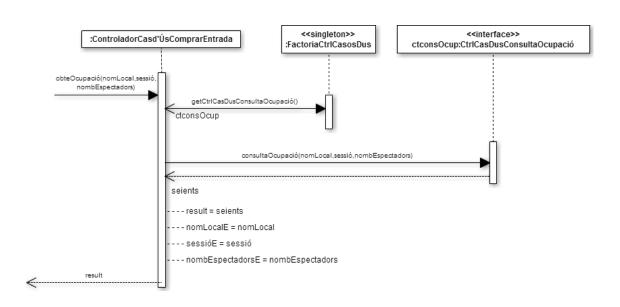


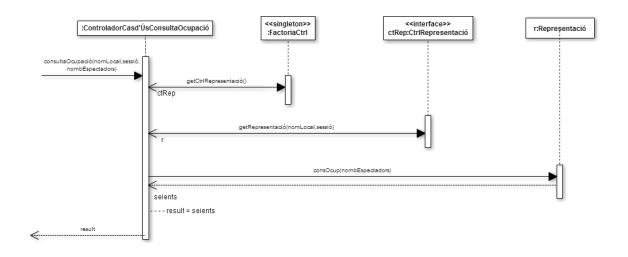


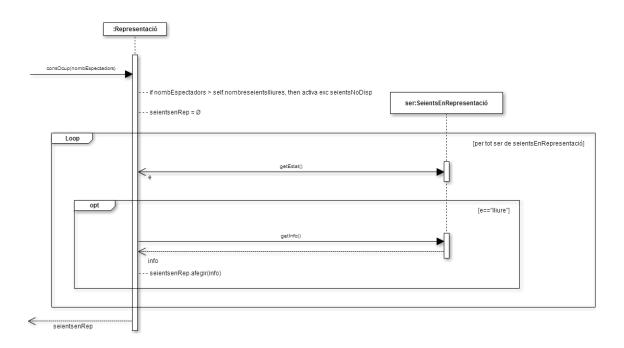


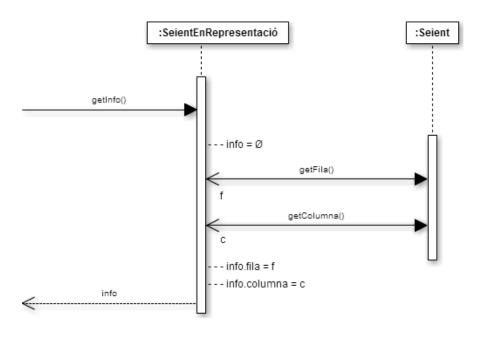


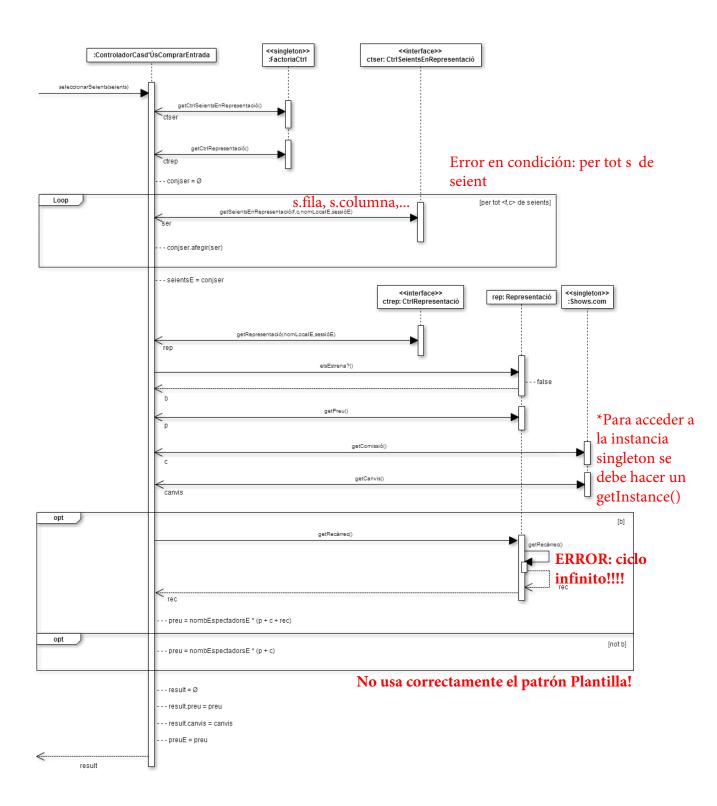




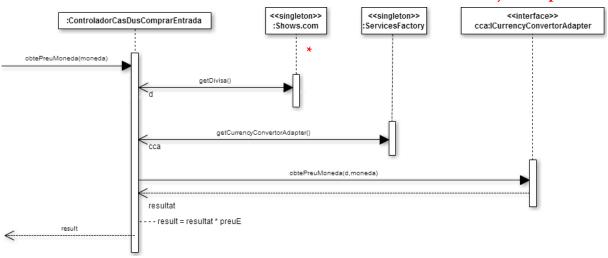


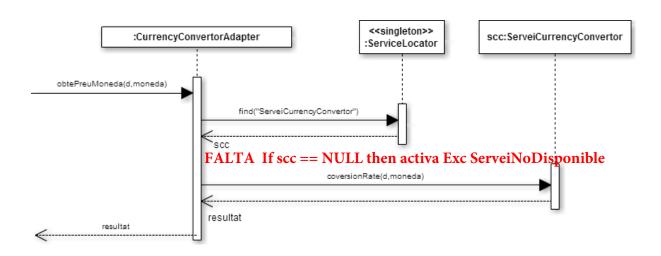


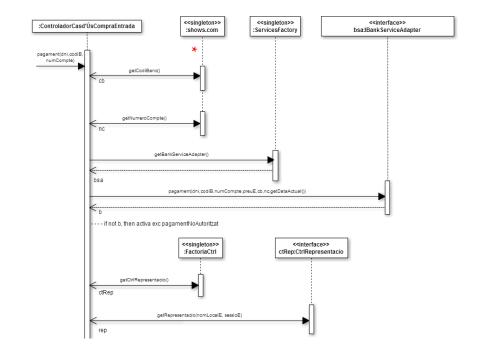




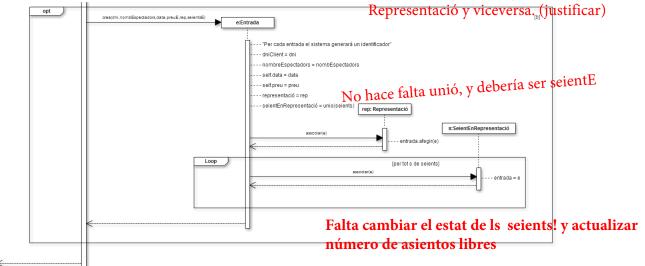
Nombre confuso:mejor AdaptersFactory

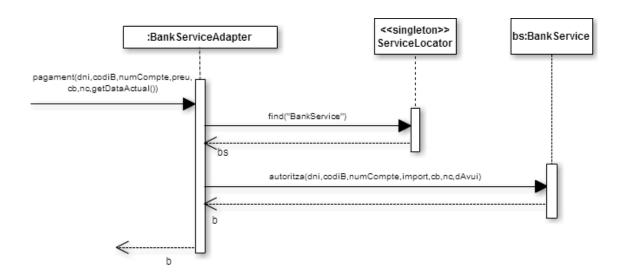


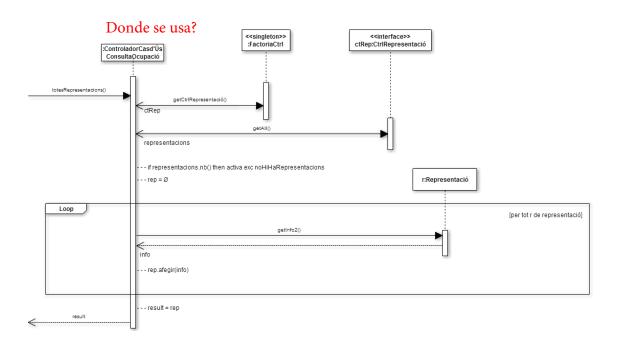


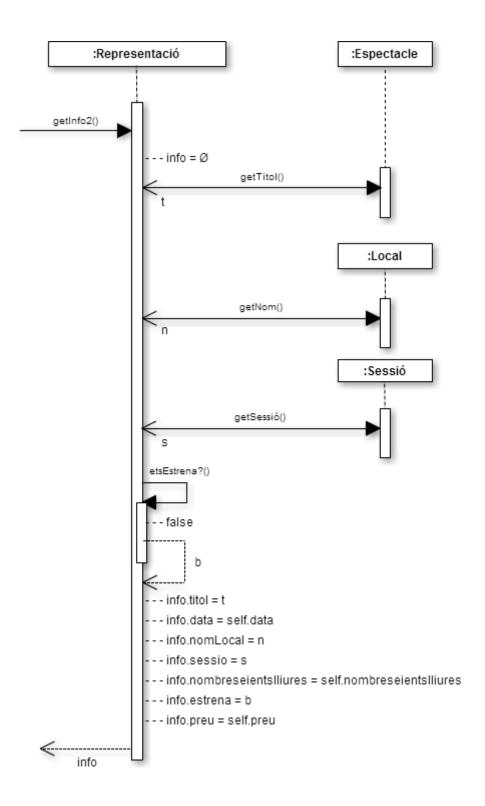


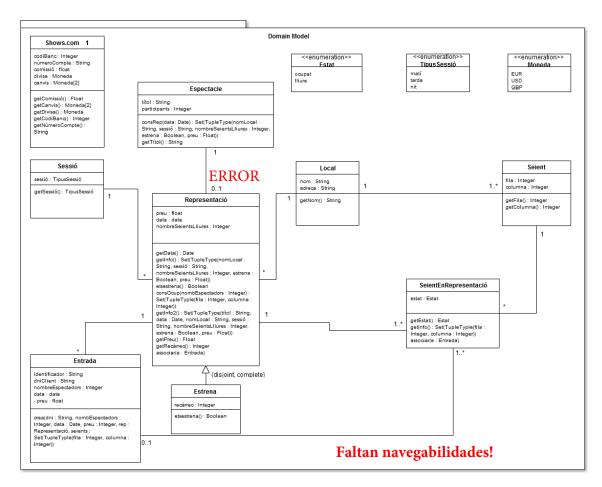
-Asumís que hay navegabilidad de Entrada a Representació y viceversa. (justificar)

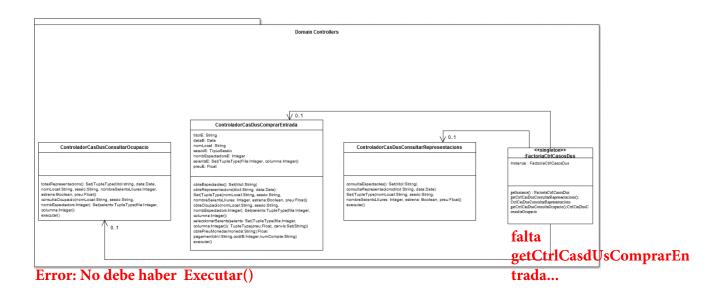


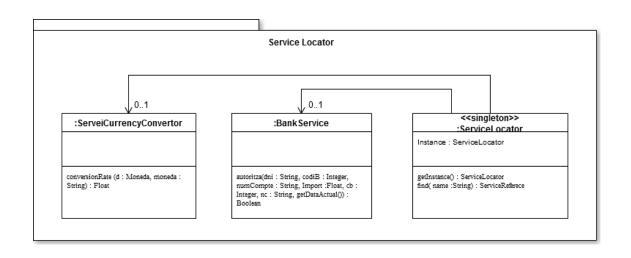


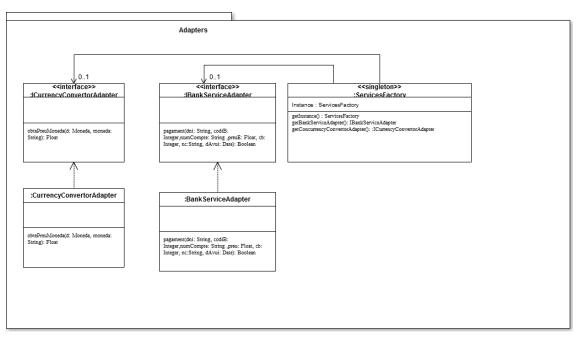


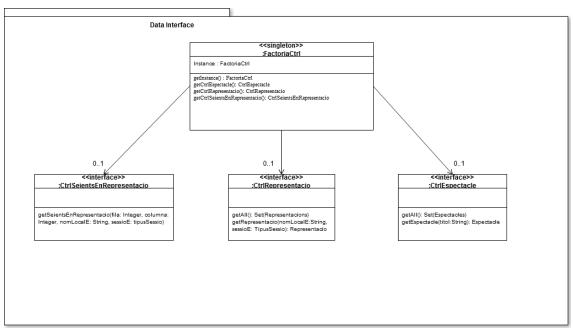












Per emmagatzemar la informació que hem anat generant en els diagrames de seqüencia que necessitarem per altres operacions, hem utilitzat el patró Controlador Cas D'ús.

Hem fet servir el patró Creador a l'hora de decidir a quina classe assignar la responsabilitat de crear una instancia de la classe Entrada. En el nostre cas el creador serà el Controlador Cas D'ús Comprar Entrada.

El patró Factoria crea famílies d'objectes que estan relacionades i retorna la interfície que l'usuari sol·liciti, per tant, hem decidit utilitzar aquest patró a l'hora d'obtenir tots els controladors i adaptadors.

El Service Locator ens permet adquirir els serveis remots que necessitem.

Quan tenim classes amb una única instancia que han de ser accessibles des de diversos punts del sistema utilitzem el Singleton. Per això l'utilitzem en les factories, service locator i shows.com per que hem de poder accedir des de qualsevol cas d'ús.

Per últim, hem utilitzat el patró Adapter per convertir la funcionalitat d'obté preu moneda i de pagament en la funcionalitat que realment necessitem.