

# 2048

## Prueba de las clases de dominio

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# Prólogo

Este documento contiene el código que se ejecuta en el video enlazado a continuación.

<https://drive.google.com/file/d/0BxCEkST1S7jLOWdMRldrRIZsUWs/view?usp=sharing>

El sistema de testing está formado por una base de datos POSTGRESQL, que debido al gran número de fallos y problemas que hemos tenido, probablemente no sea la plataforma a utilizar en el futuro, unas clases de dominio en el package `as.entity`, unos archivos de configuración de hibernate, y unas clases de interfaz para las pruebas.

Como son pruebas muy específicas de un sistema parcial, estas clases de testing se encargan de hacer consultas a la base de datos y de mostrar un menú que nos permite, crear una nueva partida, o ver/editar las casillas de una partida existente.

# Tablas de la base de datos

## Tabla casella

```
CREATE TABLE casella
(
  idpartida integer NOT NULL,
  numerofila integer NOT NULL,
  numerocolumna integer NOT NULL,
  numero integer,
  CONSTRAINT "Casella_pkey" PRIMARY KEY (idpartida, numerofila, numerocolumna),
  CONSTRAINT "Casella_idPartida_fkey" FOREIGN KEY (idpartida)
    REFERENCES partidas (idpartida) MATCH SIMPLE
    ON UPDATE NO ACTION ON DELETE NO ACTION
)
```

idpartida [PK] integer	numerofila [PK] integer	numerocolumna [PK] integer	numero integer

## Tabla partidas

```
CREATE TABLE partidas
(
  idpartida integer NOT NULL,
  estaacabada boolean,
  estajugada boolean,
  puntuacion integer,
  CONSTRAINT "PK" PRIMARY KEY (idpartida)
)
```

idpartida [PK] integer	estaacabada boolean	estajugada boolean	puntuacion integer

# Clases Dominio

## Partidas

```
package as.entity;
import java.util.HashSet;
import java.util.Set;
import org.hibernate.Session;

/**
 * Partidas generated by hbm2java
 */
public class Partidas implements java.io.Serializable {
    private int idPartida;
    private Boolean estaAcabada;
    private Boolean estaJugada;
    private Integer puntuacion;
    private Set casellas = new HashSet(16);

    public Partidas() {
    }

    public Partidas(int idPartida) {
        this.idPartida = idPartida;

        this.estaAcabada = false;
        this.estaJugada = false;
        this.puntuacion = 0;
        for (int i = 0; i<4; ++i){
            for (int j = 0; j<4; ++j){
                this.casellas.add(new Casella(i,j,0,this));
            }
        }
    }

    public Partidas(int idPartida, Boolean estaAcabada, Boolean estaJugada, Integer puntuacion,
Set casellas) {
        this.idPartida = idPartida;
        this.estaAcabada = estaAcabada;
        this.estaJugada = estaJugada;
        this.puntuacion = puntuacion;
        this.casellas = casellas;
    }

    public int getIdPartida() {
        return this.idPartida;
    }

    public void setIdPartida(int idPartida) {
        this.idPartida = idPartida;
    }
}
```

```

public Boolean getEstaAcabada() {
    return this.estaAcabada;
}

public void setEstaAcabada(Boolean estaAcabada) {
    this.estaAcabada = estaAcabada;
}

public Boolean getEstaJugada() {
    return this.estaJugada;
}

public void setEstaJugada(Boolean estaJugada) {
    this.estaJugada = estaJugada;
}

public Integer getPuntuacion() {
    return this.puntuacion;
}

public void setPuntuacion(Integer puntuacion) {
    this.puntuacion = puntuacion;
}

public Set getCasellas() {
    return this.casellas;
}

public void setCasellas(Set casellas) {
    this.casellas = casellas;
}

public void persiste(Session sesion) {
    sesion.beginTransaction();
    sesion.persist(this);
    for (Object c : casellas) {
        sesion.persist((Casella)c);
    }
    sesion.getTransaction().commit();
}
}

```

## CasellaId

```
package as.entity;

/**
 * CasellaId generated by hbm2java
 */
public class CasellaId implements java.io.Serializable {
    private int idPartida;
    private int numeroFila;
    private int numeroColumna;

    public CasellaId() {
    }

    public CasellaId(int idPartida, int numeroFila, int numeroColumna) {
        this.idPartida = idPartida;
        this.numeroFila = numeroFila;
        this.numeroColumna = numeroColumna;
    }

    public int getIdPartida() {
        return this.idPartida;
    }

    public void setIdPartida(int idPartida) {
        this.idPartida = idPartida;
    }

    public int getNumeroFila() {
        return this.numeroFila;
    }

    public void setNumeroFila(int numeroFila) {
        this.numeroFila = numeroFila;
    }

    public int getNumeroColumna() {
        return this.numeroColumna;
    }

    public void setNumeroColumna(int numeroColumna) {
        this.numeroColumna = numeroColumna;
    }

    public boolean equals(Object other) {
        if ( (this == other) ) return true;
        if ( (other == null) ) return false;
        if ( !(other instanceof CasellaId) ) return false;
        CasellaId castOther = ( CasellaId ) other;

        return (this.getIdPartida()==castOther.getIdPartida())
        && (this.getNumeroFila()==castOther.getNumeroFila())
        && (this.getNumeroColumna()==castOther.getNumeroColumna());
    }
}
```

```
}  
public int hashCode() {  
    int result = 17;  
  
    result = 37 * result + this.getIdPartida();  
    result = 37 * result + this.getNumeroFila();  
    result = 37 * result + this.getNumeroColumna();  
    return result;  
}  
  
}
```



## Casella

```
package as.entity;

/**
 * Casella generated by hbm2java
 */
public class Casella implements java.io.Serializable {
    private CasellaId id;
    private Partidas partidas;
    private Integer numero;

    public Casella() {
    }
    public Casella(CasellaId id, Partidas partidas) {
        this.id = id;
        this.partidas = partidas;
    }
    public Casella(int fila, int columna, int punt, Partidas partidas) {
        this.id = new CasellaId(partidas.getIdPartida(),fila,columna);
        this.partidas = partidas;
        this.numero = punt;
    }
    public Casella(CasellaId id, Partidas partidas, Integer numero) {
        this.id = id;
        this.partidas = partidas;
        this.numero = numero;
    }

    public CasellaId getId() {
        return this.id;
    }

    public void setId(CasellaId id) {
        this.id = id;
    }
    public Partidas getPartidas() {
        return this.partidas;
    }

    public void setPartidas(Partidas partidas) {
        this.partidas = partidas;
    }
    public Integer getNumero() {
        return this.numero;
    }

    public void setNumero(Integer numero) {
        this.numero = numero;
    }
}
```

# Hibernate Configuration Files

## Hibernate.cfg.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate Configuration DTD
3.0//EN" "http://hibernate.sourceforge.net/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
  <session-factory>
    <property name="hibernate.dialect">org.hibernate.dialect.PostgreSQLDialect</property>
    <property name="hibernate.connection.driver_class">org.postgresql.Driver</property>
    <property
name="hibernate.connection.url">jdbc:postgresql://localhost:5432/AS1</property>
    <property name="hibernate.connection.username">usras</property>
    <property name="hibernate.connection.password">usrASusrAS</property>
    <property name="hibernate.show_sql">true</property>
  </session-factory>
  <property name="hibernate.query.factory_class">org.hibernate.hql.internal.classic.ClassicQueryTranslatorFactory</property>
  <mapping resource="as/entity/Casella.hbm.xml"/>
  <mapping resource="as/entity/Partidas.hbm.xml"/>
</hibernate-configuration>
```

## Hibernate.reveng.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-reverse-engineering PUBLIC "-//Hibernate/Hibernate Reverse
Engineering DTD 3.0//EN" "http://hibernate.sourceforge.net/hibernate-reverse-engineering-
3.0.dtd">
<hibernate-reverse-engineering>
  <schema-selection match-catalog="AS1" match-schema="public"/>
  <table-filter match-name="partidas"/>
  <table-filter match-name="casella"/>
</hibernate-reverse-engineering>
```

## Casella.hbm.xml

```
<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">
<!-- Generated 07-abr-2015 16:04:59 by Hibernate Tools 4.3.1 -->
<hibernate-mapping>
  <class name="as.entity.Casella" table="casella" schema="public" optimistic-lock="version">
    <composite-id name="id" class="as.entity.CasellaId">
      <key-property name="idPartida" type="int">
        <column name="idpartida" />
      </key-property>
      <key-property name="numeroFila" type="int">
        <column name="numerofila" />
      </key-property>
    </composite-id>
  </class>
</hibernate-mapping>
```

```

        <key-property name="numeroColumna" type="int">
            <column name="numerocolumna" />
        </key-property>
    </composite-id>
    <many-to-one name="partidas" class="as.entity.Partidas" update="false" insert="false"
fetch="select">
        <column name="idpartida" not-null="true" />
    </many-to-one>
    <property name="numero" type="java.lang.Integer">
        <column name="numero" />
    </property>
</class>
</hibernate-mapping>

```

## Partidas.hbm.xml

```

<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">
<!-- Generated 07-abr-2015 16:04:59 by Hibernate Tools 4.3.1 -->
<hibernate-mapping>
    <class name="as.entity.Partidas" table="partidas" schema="public" optimistic-
lock="version">
        <id name="idPartida" type="int">
            <column name="idpartida" />
            <generator class="assigned" />
        </id>
        <property name="estaAcabada" type="java.lang.Boolean">
            <column name="estaacabada" />
        </property>
        <property name="estaJugada" type="java.lang.Boolean">
            <column name="estajugada" />
        </property>
        <property name="puntuacion" type="java.lang.Integer">
            <column name="puntuacion" />
        </property>
        <set name="casellas" table="casella" inverse="true" lazy="true" fetch="select">
            <key>
                <column name="idpartida" not-null="true" />
            </key>
            <one-to-many class="as.entity.Casella" />
        </set>
    </class>
</hibernate-mapping>

```

## Hibernate.Util.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

```

```

package as.util;

import org.hibernate.cfg.AnnotationConfiguration;
import org.hibernate.SessionFactory;

/**
 * Hibernate Utility class with a convenient method to get Session Factory
 * object.
 *
 * @author fjgarate
 */
public class HibernateUtil {

    private static final SessionFactory sessionFactory;

    static {
        try {
            // Create the SessionFactory from standard (hibernate.cfg.xml)
            // config file.
            sessionFactory = new AnnotationConfiguration().configure().buildSessionFactory();
        } catch (Throwable ex) {
            // Log the exception.
            System.err.println("Initial SessionFactory creation failed." + ex);
            throw new ExceptionInInitializerError(ex);
        }
    }

    public static SessionFactory getSessionFactory() {
        return sessionFactory;
    }
}

```

# Testing tool

## Menu.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package as.gui;

import as.entity.Partidas;
import as.util.HibernateUtil;
import org.hibernate.Session;
import org.hibernate.criterion.Order;

/**
 *
 * @author fjgarate
 */
public class Menu extends javax.swing.JFrame {

    /**
     * Creates new form Menu
     */
    public Menu() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        menuBar = new javax.swing.JMenuBar();
        fileMenu = new javax.swing.JMenu();
        openMenuItem = new javax.swing.JMenuItem();
        saveMenuItem = new javax.swing.JMenuItem();
        saveAsMenuItem = new javax.swing.JMenuItem();
        exitMenuItem = new javax.swing.JMenuItem();
        editMenu = new javax.swing.JMenu();
        cutMenuItem = new javax.swing.JMenuItem();
        copyMenuItem = new javax.swing.JMenuItem();
        pasteMenuItem = new javax.swing.JMenuItem();
        deleteMenuItem = new javax.swing.JMenuItem();
        helpMenu = new javax.swing.JMenu();
    }
}
```

```
contentsMenuItem = new javax.swing.JMenuItem();
aboutMenuItem = new javax.swing.JMenuItem();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jButton1.setText("Find Partida");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jButton2.setText("New Partida");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});

fileMenu.setMnemonic('f');
fileMenu.setText("File");

openMenuItem.setMnemonic('o');
openMenuItem.setText("Open");
fileMenu.add(openMenuItem);

saveMenuItem.setMnemonic('s');
saveMenuItem.setText("Save");
fileMenu.add(saveMenuItem);

saveAsMenuItem.setMnemonic('a');
saveAsMenuItem.setText("Save As ...");
saveAsMenuItem.setDisplayedMnemonicIndex(5);
fileMenu.add(saveAsMenuItem);

exitMenuItem.setMnemonic('x');
exitMenuItem.setText("Exit");
exitMenuItem.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        exitMenuItemActionPerformed(evt);
    }
});
fileMenu.add(exitMenuItem);

menuBar.add(fileMenu);

editMenu.setMnemonic('e');
editMenu.setText("Edit");

cutMenuItem.setMnemonic('t');
cutMenuItem.setText("Cut");
editMenu.add(cutMenuItem);
```

```

copyMenuItem.setMnemonic('y');
copyMenuItem.setText("Copy");
editMenu.add(copyMenuItem);

pasteMenuItem.setMnemonic('p');
pasteMenuItem.setText("Paste");
editMenu.add(pasteMenuItem);

deleteMenuItem.setMnemonic('d');
deleteMenuItem.setText("Delete");
editMenu.add(deleteMenuItem);

menuBar.add(editMenu);

helpMenu.setMnemonic('h');
helpMenu.setText("Help");

contentsMenuItem.setMnemonic('c');
contentsMenuItem.setText("Contents");
helpMenu.add(contentsMenuItem);

aboutMenuItem.setMnemonic('a');
aboutMenuItem.setText("About");
helpMenu.add(aboutMenuItem);

menuBar.add(helpMenu);

setJMenuBar(menuBar);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
            layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 125,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(21, 21, 21)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(20, 20, 20)
                        .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 125,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(255, 255, Short.MAX_VALUE))
                    .addGap(255, 255, Short.MAX_VALUE)))
        .addGap(255, 255, Short.MAX_VALUE))
    );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(20, 20, 20)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 125,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(20, 20, 20)
            .addComponent(jButton2, javax.swing.GroupLayout.PREFERRED_SIZE, 125,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(20, 20, 20))
    );

```

```

        .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 257,
Short.MAX_VALUE)
        .addContainerGap())
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jButton2, javax.swing.GroupLayout.DEFAULT_SIZE, 257,
Short.MAX_VALUE)
        .addContainerGap()))
    );

    pack();
} // </editor-fold>

private void exitMenuItemActionPerformed(java.awt.event.ActionEvent evt) {
    System.exit(0);
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // Find partidas
    CasillasInPartida cip = new CasillasInPartida();
    cip.setVisible(true);
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // New Partida
    Session session = HibernateUtil.getSessionFactory().openSession();
    // Coger el id máximo
    Partidas newest = (Partidas) session.createCriteria(Partidas.class)
        .addOrder(Order.desc("idPartida"))
        .setMaxResults(1)
        .uniqueResult();
    int nextid = 1;
    if (newest != null) nextid = newest.getIdPartida() + 1;
    Partidas p = new Partidas(nextid);
    p.persiste(session);
    session.close();
    NuevaPartidaDialog diag = new NuevaPartidaDialog(this,true,nextid);
    diag.setVisible(true);
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see
     * http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {

```



```

        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Menu.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Menu.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Menu.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Menu.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Menu().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JMenuItem aboutMenuItem;
private javax.swing.JMenuItem contentsMenuItem;
private javax.swing.JMenuItem copyMenuItem;
private javax.swing.JMenuItem cutMenuItem;
private javax.swing.JMenuItem deleteMenuItem;
private javax.swing.JMenu editMenu;
private javax.swing.JMenuItem exitMenuItem;
private javax.swing.JMenu fileMenu;
private javax.swing.JMenu helpMenu;
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JMenuBar menuBar;
private javax.swing.JMenuItem openMenuItem;
private javax.swing.JMenuItem pasteMenuItem;
private javax.swing.JMenuItem saveAsMenuItem;
private javax.swing.JMenuItem saveMenuItem;
}

```

## NuevaPartidaDialog.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package as.gui;

import java.awt.event.ActionEvent;
import java.awt.event.KeyEvent;
import javax.swing.AbstractAction;
import javax.swing.ActionMap;
import javax.swing.InputMap;
import javax.swing.JComponent;
import javax.swing.KeyStroke;

/**
 *
 * @author fjgarate
 */
public class NuevaPartidaDialog extends javax.swing.JDialog {

    /**
     * A return status code - returned if Cancel button has been pressed
     */
    public static final int RET_CANCEL = 0;
    /**
     * A return status code - returned if OK button has been pressed
     */
    public static final int RET_OK = 1;

    /**
     * Creates new form NuevaPartidaDialog
     */
    public NuevaPartidaDialog(java.awt.Frame parent, boolean modal, Integer nueid) {
        super(parent, modal);
        initComponents();
        this.newpid.setText(nueid.toString());

        // Close the dialog when Esc is pressed
        String cancelName = "cancel";
        InputMap inputMap =
getRootPane().getInputMap(JComponent.WHEN_ANCESTOR_OF_FOCUSED_COMPONENT);
        inputMap.put(KeyStroke.getKeyStroke(KeyEvent.VK_ESCAPE, 0), cancelName);
        ActionMap actionMap = getRootPane().getActionMap();
        actionMap.put(cancelName, new AbstractAction() {
            public void actionPerformed(ActionEvent e) {
                doClose(RET_CANCEL);
            }
        });
    }
}
```

```

/**
 * @return the return status of this dialog - one of RET_OK or RET_CANCEL
 */
public int getReturnStatus() {
    return returnStatus;
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    okButton = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    newpid = new javax.swing.JLabel();

    addWindowListener(new java.awt.event.WindowAdapter() {
        public void windowClosing(java.awt.event.WindowEvent evt) {
            closeDialog(evt);
        }
    });

    okButton.setText("OK");
    okButton.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            okButtonActionPerformed(evt);
        }
    });

    jLabel1.setText("New Partida id:");

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel1)
                .addGap(31, 31, 31)
                .addComponent(newpid)
                .addGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(okButton, javax.swing.GroupLayout.PREFERRED_SIZE, 67,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(98, 98, 98))
    );
}

```

```

    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addGap(20, 20, 20)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel1)
        .addComponent(newpid))
        .addGap(33, 33, 33)
        .addComponent(okButton)
        .addContainerGap(25, Short.MAX_VALUE))
    );

    getRootPane().setDefaultButton(okButton);

    pack();
} // </editor-fold>

private void okButtonActionPerformed(java.awt.event.ActionEvent evt) {
    doClose(RET_OK);
}

/**
 * Closes the dialog
 */
private void closeDialog(java.awt.event.WindowEvent evt) {
    doClose(RET_CANCEL);
}

private void doClose(int retStatus) {
    returnStatus = retStatus;
    setVisible(false);
    dispose();
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
    * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    }
    catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.Level.SEVERE, null, ex);
    }
    catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.Level.SEVERE, null, ex);
    }
    catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.Level.SEVERE, null, ex);
    }
    catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.Level.SEVERE, null, ex);
    }
}

```

```

    }
}
} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(NuevaPartidaDialog.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(NuevaPartidaDialog.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(NuevaPartidaDialog.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(NuevaPartidaDialog.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}
//</editor-fold>

/* Create and display the dialog */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        NuevaPartidaDialog dialog = new NuevaPartidaDialog(new javax.swing.JFrame(),
true,0);
        dialog.addWindowListener(new java.awt.event.WindowAdapter() {
            @Override
            public void windowClosing(java.awt.event.WindowEvent e) {
                System.exit(0);
            }
        });
        dialog.setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel newpid;
private javax.swing.JButton okButton;
// End of variables declaration

private int returnStatus = RET_CANCEL;
}

```

## CasillasInPartida.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package as.gui;

import as.entity.Casella;
import as.entity.Partidas;
import as.util.HibernateUtil;
import java.util.ArrayList;
import java.util.List;
import java.util.Vector;
import javax.swing.RowSorter;
import javax.swing.SortOrder;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.TableModel;
import javax.swing.table.TableRowSorter;
import org.hibernate.HibernateException;
import org.hibernate.Query;
import org.hibernate.Session;
import org.hibernate.Transaction;

/**
 *
 * @author fjgarate
 */
public class CasillasInPartida extends javax.swing.JFrame {

    /**
     * Creates new form ventana
     */
    public CasillasInPartida() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        idPartidaText = new javax.swing.JTextField();
        jScrollPane1 = new javax.swing.JScrollPane();
        resultTable = new javax.swing.JTable();
        jButton1 = new javax.swing.JButton();

    }
```

```

jLabel2 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setText("id Partida:");

resultTable.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
jScrollPane1.setViewportView(resultTable);

jButton1.setText("Buscar");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel2.setText("Caselles trobades");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 697,
Short.MAX_VALUE)
                .add(jLabel1)
                .add(idPartidaText, javax.swing.GroupLayout.PREFERRED_SIZE, 112,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .add(jButton1)
            )
            .add(jLabel2)
        )
        .add(jButton1)
    );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .add(jScrollPane1)
        .add(jLabel1)
        .add(idPartidaText)
        .add(jButton1)
        .add(jLabel2)
    );

```

```

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel1)
                .addComponent(idPartidaText, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton1))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 15,
Short.MAX_VALUE)
            .addComponent(jLabel2)
            .addGap(18, 18, 18)
            .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 265,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap())
        );

    pack();
} // </editor-fold>

private static String PARTIDAS_QUERY_BASED_ON_IDPARTIDA="from Partidas p where
p.idPartida = ";
private static String CASELLES_QUERY_BASED_ON_IDPARTIDA="from Casella c where
c.id.idPartida = ";

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    if (idPartidaText.getText() != "") {
        executeHQLQuery(PARTIDAS_QUERY_BASED_ON_IDPARTIDA + idPartidaText.getText());
    }
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see
     * http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(CasillasInPartida.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    }
}

```



```

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(CasillasInPartida.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(CasillasInPartida.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(CasillasInPartida.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    }
//</editor-fold>
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new CasillasInPartida().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JTextField idPartidaText;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable resultTable;
// End of variables declaration

private Partidas p;
private void executeHQLQuery(String hql) {
    try {
        Session session = HibernateUtil.getSessionFactory().openSession();
        session.beginTransaction();
        Query q = session.createQuery(hql);
        List resultList = q.list();
        displayResult(resultList);
        session.getTransaction().commit();
        session.close();
    } catch (HibernateException he) {
        he.printStackTrace();
    }
}

private void displayResult(List resultList) {
    Vector<String> tableHeaders = new Vector<String>();
    Vector tableData = new Vector();
    tableHeaders.add("Numero Fila");

```



```

        } finally {
            session.close();
            //jButton1ActionPerformed(null);
        }

        break;
    }
}
fireTableCellUpdated(row, col);

jButton1ActionPerformed(null);
}

// return true;

};
resultTable.setModel(model);
TableRowSorter<TableModel> sorter = new TableRowSorter<>(resultTable.getModel());
resultTable.setRowSorter(sorter);
List<RowSorter.SortKey> sortKeys = new ArrayList<>();

int columnIndexToSort = 0;
sortKeys.add(new RowSorter.SortKey(columnIndexToSort, SortOrder.ASCENDING));
sortKeys.add(new RowSorter.SortKey(columnIndexToSort+1, SortOrder.ASCENDING));

sorter.setSortKeys(sortKeys);
sorter.sort();
}
}

```