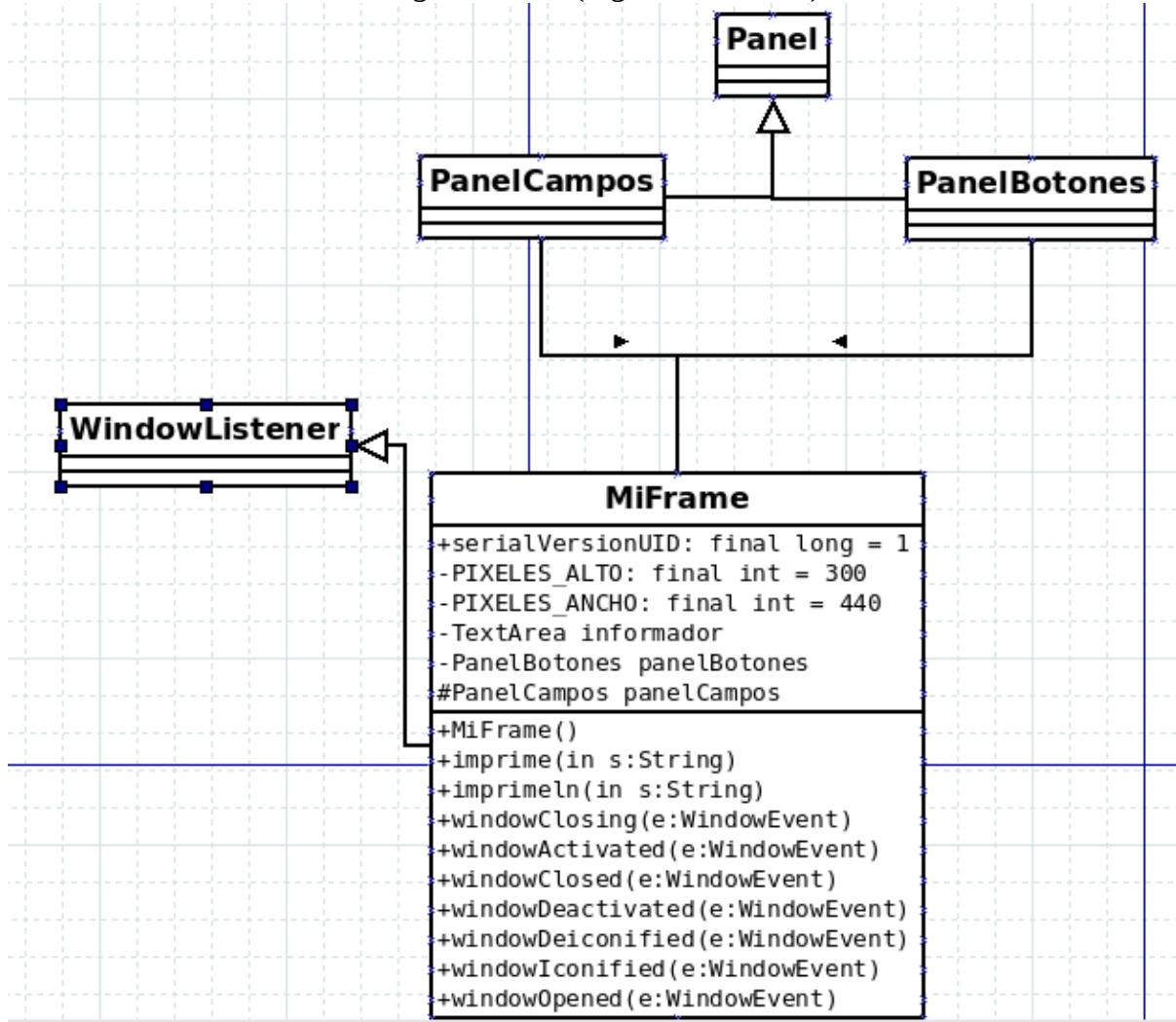


Diagrama UML (Ingeniería Inversa)



Integración de clases PanelBotones y Panel Campos Codificadas

```

public class PanelBotones extends Panel{
public static final long serialVersionUID=1;
private Button boton1,boton2;

public PanelBotones(){
    boton1=new Button("Boton 1");
    boton2=new Button("Boton 2");
    add(boton1);
    add(boton2);
}
}

public class PanelCampos extends Panel{
public static final long serialVersionUID=1;
private TextField campoAlfa,campoNum;

public PanelCampos(){
    campoAlfa=new TextField(10);
    campoNum=new TextField(4);
    add(new Label("Alfanumerico:"));
    add(campoAlfa);
    add(new Label("Numerico:"));
    add(campoNum);
}
}
  
```

```
    }  
}
```

Clase MiFrame codificada

```
public class MiFrame extends Frame implements WindowListener{  
    public static final long serialVersionUID=1;  
    private final int PIXELES_ALTO=300;  
    private final int PIXELES_ANCHO=440;  
    private TextArea informador;  
    private PanelBotones panelBotones;  
    protected PanelCampos panelCampos;  
    public MiFrame(){  
        super("Interfaces Graficas");  
        setLayout(new BorderLayout());  
        informador=new TextArea();  
        panelBotones=new PanelBotones();  
        panelCampos=new PanelCampos();  
        informador.setEditable(false);  
        add("North",panelCampos);  
        add("Center",informador);  
        add("South",panelBotones);  
        setSize(PIXELES_ANCHO,PIXELES_ALTO);  
        addWindowListener(this);  
    }  
    public void imprime(String s){  
        informador.append(s);  
    }  
    public void imprimeln(String s){  
        informador.append(s+"\n");  
    }  
  
    public void windowClosing(WindowEvent e){  
        System.exit(0);  
    }  
  
    public void windowActivated(WindowEvent e){  
    }  
    public void windowClosed(WindowEvent e){  
    }  
    public void windowDeactivated(WindowEvent e){  
    }  
    public void windowDeiconified(WindowEvent e){  
    }  
    public void windowIconified(WindowEvent e){  
    }  
    public void windowOpened(WindowEvent e){  
    }  
    public static void main(String args[]){  
        MiFrame mf=new MiFrame();  
        mf.setVisible(true);  
        mf.imprime("Hola ");  
        mf.imprimeln("Mundo de Objetos");  
        mf.imprimeln("Solo para:");  
        mf.imprimeln("Ingenieria en Computacion e Ingenieria  
Informatica");  
        mf.imprimeln("Universidad de Guadalajara");  
    }  
}
```

}