

LIST

가 .. 가 .

. ..

크 크 .

가 .

... ..

가 ..

. 가

가

UI가 80% UI

가 .. 가

. ..

가 mm;

.. 크 크 크

PinkMidlet.java

```
import javax.microedition.lcdui.*;

import javax.microedition.midlet.*;

import com.xce.lcdui.*;

public class PinkMidlet extends MIDlet
{
    /**
     *
     */
    // Display instance
    private Display display; // Display
    private PinkCanvas pinkCanvas;

    /**
     *
     */
    public void startApp()
    {

```

```

        display = Display.getDisplay(this);

        pinkCanvas = new PinkCanvas();

        display.setCurrent(pinkCanvas);
    }

    public void pauseApp() {}

    public void resumeApp() {}

    public void destroyApp(boolean con){}

}

```

Canvas 가

PinkCanvas.java

```
import javax.microedition.lcdui.*;

import com.xce.lcdui.*;

import com.skt.m.*;


public class PinkCanvas extends Canvas

{

    PinkThread      pinkThread; //

    PinkList   pinkList;    //

    PinkTicker      pinkTicker;    //


    static int FONT_HEIGHT;    //

    static int LCD_HEIGHT;     // LCD

    static int LCD_WIDTH;      // LCD


    String[] pinkLecture = { "                .",           ", "          ", "          ", "          ",
        ", "            ", "          ", "          ", "          ", "          ",
    };

    PinkCanvas()

    {
```

```

        FONT_HEIGHT = Font.getDefaultFont().getHeight(); // Height
        LCD_HEIGHT = this.getHeight() + 16; //
        LCD_WIDTH = this.getWidth();

        pinkThread = new PinkThread(this);
        pinkList = new PinkList(this);
        pinkTicker = new PinkTicker(this);

        pinkList.setStrings(pinkLecture, pinkLecture.length); //
        pinkList.setBounds(10, 10, 90, 100); //
    }
    // .. 7+ .

    public synchronized void paint(Graphics g)
    {
        g.setClip(0, 0, LCD_WIDTH, LCD_HEIGHT);
        //
        if(pinkThread.getAni()) //
        {
            pinkTicker.paint(g); //
            return;
        }

        g.setColor(0xffffffff); //
        g.fillRect(0, 0, LCD_WIDTH, LCD_HEIGHT);
        pinkList.paint(g, true); //
        pinkThread.setAni(true); // TRUE
    }

    public void keyPressed(int keyCode) //
    {
        pinkList.keyPressed(keyCode);
    }

    public void keyRepeated(int keyCode){}
    public void keyReleased(int keyCode){}
}

```

Canvas

가

Thread 가

가 가

PinkThread.java

```
import javax.microedition.lcdui.*;

import com.xce.lcdui.*;
import com.skt.m.*;

public class PinkThread extends Thread
{
    private boolean isAni;    //
    private boolean isStop;   //

    PinkCanvas pinkCanvas;

    /**
     *
     */
    PinkThread(PinkCanvas _pinkCanvas)
    {
        pinkCanvas = _pinkCanvas;
        this.start();
    }

    /**
     *
     */
    public void run()
    {
        while(!isStop)
        {
            if(isAni)    //
                repaint()
                pinkCanvas.repaint();

            // repaint
            // serviceRepaints()
            try{ Thread.sleep(200); }catch(Exception e){} //
        }
    }
}
```


[illegible]

```

/*****/

//

    public PinkList(PinkCanvas _pinkCanvas)
    {

        pinkCanvas = _pinkCanvas;

    }

/*****/

//                                TimerTask

class NumTimerClient extends TimerTask
{

    public final void run()
    {

        isReleased = true;

        if(oldPressedKey > 0 && oldPressedKey <= list.length)
        {

            setIndex(oldPressedKey - 1);
            pinkCanvas.keyPressed(131);

        }

        oldPressedKey = 0;
        isReleased = false;
        numTimerClient.cancel();

    }

}

/*****/

//

    public void setBounds(int _x, int _y, int _width, int _height)
    {

        x = _x + 1;
        x1 = _x - 12;
        y = _y;
        width = _width;
        height = _height;
    }
}

```

```

        //      height
        listScreenNum = height / (PinkCanvas.FONT_HEIGHT + 1);
        FONT_HEIGHT = height / listScreenNum; //
    }

// String
public void setStrings(String[] _list, int _totListNum)
{
    indexSelect = 0;
    indexFirst = 0;
    list = null;
    list_num = _totListNum;

    list = new char[_totListNum][];

    for(int i = 0; i < _totListNum; i++)
        list[i] = _list[i].toCharArray();
}

// Char
public void setChars(char[][] _list, int _totListNum)
{
    indexSelect = 0;
    indexFirst = 0;

    list_num = _totListNum;

    list = null;
    list = _list;
}

/*****
//

public int getSelectIndex()
{

```



```

        return indexSelect;

    }

    /**
     *
     */
    //

    public void setIndex(int _indexSelect)
    {

        indexSelect = _indexSelect;

    }

    /**
     *
     */
    //

    public void paint(Graphics g, boolean isScroll)
    {

        int indexLast = (list_num > listScreenNum)?indexFirst + listScreenNum:list_num;

        for(int i = indexFirst , k = 0; i < indexLast; i++, k++)
        {
            // Ticker
            if(i == indexFirst)
            {
                // Ticker
                pinkCanvas.pinkTicker.setBounds(x, y + FONT_HEIGHT
                    * (indexSelect -indexFirst), width - 4, PinkCanvas.FONT_HEIGHT);
                pinkCanvas.pinkTicker.setChars(list[indexSelect]);
            }
            g.setColor(0x000000);

            g.setClip(x1, y, width - 4, height);
            g.drawChar(listNum[i], x1, y + FONT_HEIGHT * k , g.TOP|g.LEFT);

            g.setClip(x, y, width - 5, height);
            g.drawChars(list[i] , 0, list[i].length, x, y + FONT_HEIGHT * k , g.TOP|g.LEFT);
        }

        g.setClip(0, 0, PinkCanvas.LCD_WIDTH, PinkCanvas.LCD_HEIGHT);
        //
        if(isScroll)

```

```

        drawScrollBar(g, x + width - 3);

    }

/*****/
//

    public void drawScrollBar(Graphics g, int _x)
    {

        g.setColor(171, 181, 127);
        g.drawRect(_x, y + 1, 5, height - 2);

        g.setColor(230, 235, 209);
        g.drawRect(_x + 1, y + 1 + 1, 3, height - 4);

        g.setColor(203, 211, 171);
        g.drawRect(_x + 2, y + 1 + 2, 1, height - 6);

        int _y = y + 2 + getScrollBarLoc();

        g.setColor(152, 163, 14);
        g.drawLine(_x + 1, _y, _x + 1, _y + 4);
        g.drawLine(_x + 1, _y, _x + 4, _y);
        g.setColor(161, 194, 0);
        g.fillRect(_x + 2, _y + 1, 2, 3);
        g.setColor(117, 126, 14);
        g.drawLine(_x + 4, _y + 1, _x + 4, _y + 3);
        g.drawLine(_x + 1, _y + 4, _x + 4, _y + 4);

    }

//

    private int getScrollBarLoc()
    {

        return (list_num <= 1)?0:(height - 8) * indexSelect / (list_num - 1);

    }

/*****/
//

    public void keyPressed(int keyCode)

```

```

{
    switch(keyCode)
    {
        case Canvas.KEY_UP:        //
            pinkCanvas.pinkThread.setAni(false);

            if(indexSelect <= 0)
            {
                indexSelect = list_num - 1;
                indexFirst = (list_num <= listScreenNum)?0:
                    list_num - listScreenNum;
            } else
            {
                if(indexFirst > indexSelect - 1)
                    indexFirst--;

                indexSelect--;
            }

            pinkCanvas.repaint();
            break;
        case Canvas.KEY_DOWN:      //
            pinkCanvas.pinkThread.setAni(false);

            if(indexSelect >= list_num - 1)
                indexFirst = indexSelect = 0;
            else
            {
                if(indexFirst + listScreenNum - 1 <= indexSelect)
                    indexFirst++;

                indexSelect++;
            }
            pinkCanvas.repaint();
            break;
    }
}

```

```

    }
//
    public void keyReleased(int keyCode)
    {
        switch (keyCode)
        {
            case Canvas.KEY_NUM0:
            case Canvas.KEY_NUM1:
            case Canvas.KEY_NUM2:
            case Canvas.KEY_NUM3:
            case Canvas.KEY_NUM4:
            case Canvas.KEY_NUM5:
            case Canvas.KEY_NUM6:
            case Canvas.KEY_NUM7:
            case Canvas.KEY_NUM8:
            case Canvas.KEY_NUM9:
                if(!isReleased)
                {
                    oldPressedKey = keyCode - Canvas.KEY_NUM0;
                    numTimerClient.cancel();
                    timer.schedule(numTimerClient, DELAY);
                    isReleased = true;
                    break;
                }

                oldPressedKey = oldPressedKey * 10 +
                    (keyCode - Canvas.KEY_NUM0);
                break;
            }
        }
    }
}

```

?

가

가

```

TickerView
{
    public void repaint()
    {
        super.repaint();
        setClip();
        paint();
    }
}

```

PinkTicker.java

```
import javax.microedition.lcdui.*;

import com.xce.lcdui.*;

public class PinkTicker
{
    private final static int DELAY_TURN          = 1;          // delay turn
    private final static int MOVESTRING_WIDTH    = 10;

    private char[] text;                                     //

    private int x;                                         // X
    private int y;                                         // Y
    private int width;                                     //
    private int height;                                    //

    private int indexLeft;                                 //
    private int indexRight;                                //

    private int initDelay;
    private int delay;
    private int widthString;

    private boolean isPause;
    private boolean isStop;

    private int colorBack;

    private PinkCanvas pinkCanvas;

    /*****
```

```

//
    PinkTicker(PinkCanvas _pinkCanvas)
    {
        pinkCanvas = _pinkCanvas;

        isPause = true;
        isStop = false;
        this.setColor(0xFF4105);
    }

/*****

//

    public void setString(String _text)
    {
        setChars(_text.toCharArray());
    }

//

    public void setChars(char[] _text)
    {
        System.out.println("_text : " + new String(_text));

        text = null;
        text = _text;

        indexLeft = 0;
        indexRight = 0;
        delay = 0;

        widthString = Font.getDefaultFont().charsWidth(text, 0, text.length) ;
    }

/*****

//

    public void setBounds(int _x, int _y, int _width, int _height)
    {

```

```

        this.x = _x;
        this.y = _y;
        this.width = _width;
        this.height = _height;
    }

    /**
     *
     */
    //

    public void setColor(int _colorBack)
    {
        colorBack = _colorBack;
    }

    public void paint(Graphics g)
    {
        g.setClip(x, y, width, height);

        // Color
        g.setColor(colorBack);
        g.fillRect(x, y, width, height);

        if(widthString >= width)
        {
            if(delay++ > DELAY_TURN)
            {
                if(widthString + initDelay >= indexLeft)
                    indexLeft += MOVESTRING_WIDTH;

                if(widthString + initDelay >= indexRight)
                    indexRight += MOVESTRING_WIDTH;

                if(widthString + initDelay < indexLeft)
                {
                    indexLeft = indexRight - widthString - 20;
                    delay = 0;
                }
            }
        }
    }

```

```

        if(widthString + initDelay < indexRight)
            indexRight = indexLeft - widthString - 20;

    } else
    {

        initDelay = indexLeft = -x;

        indexRight = indexLeft - widthString - 20;

    }

    //

    g.setColor(0xffffffff);

    g.drawChars(text, 0, text.length, -indexLeft, y +
                (height - PinkCanvas.FONT_HEIGHT) / 2, g.LEFT|g.TOP);

    g.drawChars(text, 0, text.length, -indexRight, y +
                (height - PinkCanvas.FONT_HEIGHT) / 2, g.LEFT|g.TOP);

    }

    else

    {

        g.setColor(0xffffffff);

        g.drawChars(text, 0, text.length, x, y, g.LEFT|g.TOP);

    }

}

}

```

가

UI 80%가

가 ..ㅋㅋㅋ

[illegible]

: pinkred@hanafos.com

:

..

.

.