WEEK 5 - DEMO CODE

HTTP Connection – Retrieve information from a website

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public class RetrieveScore extends MIDlet implements Runnable {

    Form fr = new Form("Retrieve Form");
    StringItem status;
    Display dpl;

    protected void destroyApp(boolean bln) throws MIDletStateChangeException {
    }

    protected void pauseApp() {
    }

    protected void startApp() throws MIDletStateChangeException {
        dpl = Display.getDisplay(this);
        WaitingDialog connectDialog = new WaitingDialog();
        Thread t = new Thread(connectDialog);
        t.start();
        dpl.setCurrent(connectDialog);

        Thread tNet = new Thread(this);
        tNet.start();
    }

    public void run() {
        ByteArrayOutputStream bos = new ByteArrayOutputStream();
        System.out.println("Connect");
        try {
            HttpConnection con = (HttpConnection) Connector.open("http://learning24h.com/j2me_service/");
            DataInputStream is = (DataInputStream) con.openDataInputStream();
            byte[] buff = new byte[256];

            while (true) {
                int rd = is.read(buff, 0, 256);
                if (rd == -1) {
                    break;
                }
                bos.write(buff, 0, rd);

            }
            bos.flush();
            buff = bos.toByteArray();
```

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            fr.append(new String(buff));
            try {
                Thread.sleep(5000);
            } catch (InterruptedException ex) {
                ex.printStackTrace();
            }
            dpl.setCurrent(fr);
        } catch (IOException ex) {
            ex.printStackTrace();
        }
    }
}

class WaitingDialog extends Canvas implements Runnable {

    private int w, h;
    private int r = 0;

    public WaitingDialog() {
        setFullScreenMode(true);
        w = getWidth();
        h = getHeight();
    }

    protected void paint(Graphics g) {
        g.setColor(255, 255, 255);
        g.fillRect(0, 0, w, h);
        g.setColor(0, 0, 0);
        g.drawString("Connecting", w / 2, 10, Graphics.HCENTER | Graphics.BASELINE);
        g.setColor(255, 0, 0);
        g.fillArc(w / 4, h / 4, w / 2, w / 2, 0, r);
    }

    public void run() {
        while (true) {
            r = (r < -348) ? r = -12 : r - 12;
            repaint();
            try {
                Thread.sleep(200);
            } catch (InterruptedException ex) {
                ex.printStackTrace();
            }
        }
    }
}
```