How to write data to a file in Java ME

This article shows, how to write data to a file by using FileConnection API (JSR-75). This example MIDlet has a `TextBox`, where text can be entered. Then the text can be saved to readme.txt file, which is in this case created under Gallery's Images folder.

Source code: WriteMIDlet.java

The full source code for a test MIDlet:

```
import javax.microedition.midlet.*;
import javax.microedition.lcdui.*;
import javax.microedition.io.file.*;
import javax.microedition.io.*;
import java.io.*;

public class WriteMIDlet extends MIDlet implements CommandListener {
    private TextBox textbox;
    private String photos = "fileconn.dir.photos";
    private Command saveCommand;
    private Command exitCommand;
    private String path;

    public void startApp() {
        textbox = new TextBox("WriteMIDlet", "", 1000, TextField.ANY);
        saveCommand = new Command("Save", Command.SCREEN, 1);
        exitCommand = new Command("Exit", Command.EXIT, 1);
        textbox.addCommand(saveCommand);
        textbox.addCommand(exitCommand);
        textbox.setCommandListener(this);
        Display.getDisplay(this).setCurrent(textbox);
        path = System.getProperty(photos);
    }

    public void pauseApp() {
    }

    public void destroyApp(boolean unconditional) {
    }

    private void saveFile(String path, String name) {
        try {
            String url = path + name;
            String string = textbox.getString();
            byte data[] = string.getBytes("UTF-8");
            FileConnection fconn = (FileConnection)Connector.open(url, Connector.READ_WRITE);
            if (!fconn.exists()) {
                fconn.create();
            }
            OutputStream ops = fconn.openOutputStream();
            ops.write(data);
            ops.close();
            fconn.close();
        }
        catch (IOException ioe) {
            System.out.println("IOException: "+ioe.getMessage());
        }
        catch (SecurityException se) {
            System.out.println("Security exception:" + se.getMessage());
        }
    }

    public void commandAction(Command c, Displayable d) {
        if (c == saveCommand) saveFile(path, "readme.txt");
        if (c == exitCommand) this.notifyDestroyed();
    }
}
```

See also

- How to list root file systems in Java ME
- How to list files and folders in Java ME
- How to read an image from Gallery in Java ME

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