

Template:ReviwerApproved The basic purpose of this article is to download and view a file.

Important Points

- One benefit of using an `HttpConnection` (as compared to `InputStream` or `StreamConnection`) is the availability of a method to check for the length of the remote data. The data can then be read in one fell-swoop, in contrast to reading one character/byte at a time.
- Before leaving the `viewFile()` method, check to the status of the input stream and the `httpConnection`, and close if necessary.

Sample code for client

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

public class FileViewer extends MIDlet implements CommandListener {
    private Display display; // Reference to Display object
    private TextBox tbViewer; // View file contents in a textbox
    private Command cmView; // Command to view file
    private Command cmExit; // Command to exit
    private String url = "http://www.corej2me.com/midpbook_v1e1/scratch/fileViewer.hlp";

    public FileViewer() {
        display = Display.getDisplay(this);

        // Define commands
        cmView = new Command("View", Command.SCREEN, 2);
        cmExit = new Command("Exit", Command.EXIT, 1);

        tbViewer = new TextBox("Viewer", "", 250, TextField.ANY);
        addCommand(cmView);
        addCommand(cmExit);
        setCommandListener(this);
    }

    public void startApp() {
        setCurrentDisplay(tbViewer);
    }

    private void viewFile() throws IOException {
        HttpConnection http
        InputStream iStrm = null;

        try {

            = (HttpConnection) Connector.open(url);

            // -----
            // Client Request
            // -----
            // 1) Send request method
            setRequestMethod(HttpConnection.GET);
        }
    }
}
```

Fetching_data_from_server

```
// 2) Send header information (this header is optional)
    setRequestProperty("User-Agent",
"Profile/MIDP-1.0 Configuration/CLDC-1.0");

// 3) Send body/data - No data for this request

// -----
// Server Response
// -----
// 1) Get status Line
System.out.println("Msg: " + http.getResponseMessage());
System.out.println("Code: " + http.getResponseCode());

// 2) Get header information
if (http.getResponseCode() == HttpURLConnection.HTTP_OK) {
// 3) Get data (show the file contents)
    = http.openInputStream(); iStrm
int length = (int) http.getLength();
if (length > 0) {
byte serverData[] = new byte[length];
    read(serverData);          iStrm.
    setString(new String(serverData),viewer.
}
}
} finally {

if (iStrm != null)
    close();          iStrm.
if (http != null)
    close();          http.
}
}

public void pauseApp() {
}

public void destroyApp(boolean unconditional) {
}

public void commandAction(Command c, Displayable s) {
if (c == cmView) {
try {
    ();          viewFile
} catch (Exception e) {
System.out.println(e.toString());
}
} else if (c == cmExit) {
    (false);    destroyApp
    ();        notifyDestroyed
}
}
}
```