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J2ME Kxml Connection Example

[Share on Google+](#)**This is the XML connection example.**

In this section, we'll develop a J2ME application that a user can connect to the xml file from localhost and print it on the console.

J2ME Kxml Connection Example

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This is the XML connection example. In this section, we'll develop a J2ME application that a user can connect to the

xml file from localhost and print it on the console.

To develop this type of application we have the following steps:

- create a AddressBook.xml file in root folder of your server with name and address tags.
- run the server by startup.bat
- create the MIDlet (AddressDB.java).
- build the midlet and then run.
- approve to send and receive the data using network.
- output display on console.

AddressBook is a simple XML format that summarizes name and address tags. when the program will executed,AddressBook displays the name and address from the addressbook data on the console.

The Entire Application is as follows:

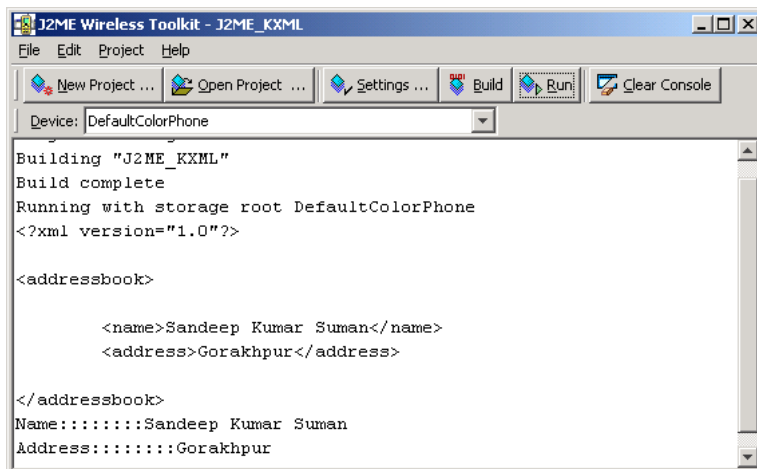
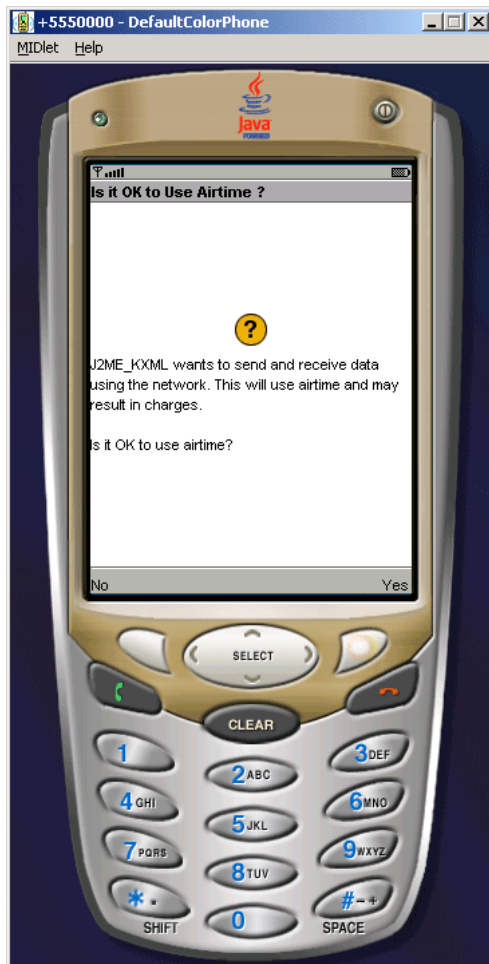
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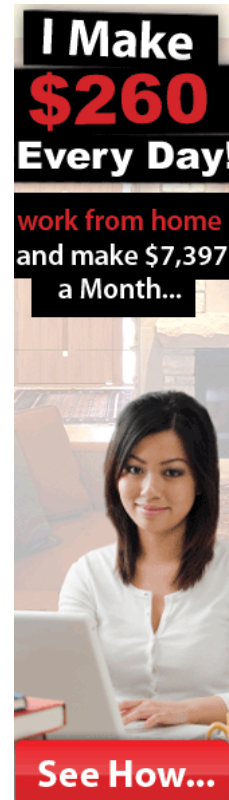


AddressDB.java

```
import java.io.*;

import org.kxml.*;
import org.kxml.io.*;
import org.kxml.kdom.*;
import org.kxml.parser.*;

import javax.microedition.io.*;
import javax.microedition.rms.*;
```



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```

import javax.microedition.lcdui.*;
import javax.microedition.midlet.*;

public class AddressDB extends MIDlet{
    private static RecordStore rs = null;

    public void startApp(){
        try {
            rs = RecordStore.openRecordStore("addressbook", true);
            loadXML();
            addAddress("Sandeep Kumar Suman", "Gorakhpur");
            getName(1);
            getAddress(1);
        } catch (RecordStoreException e) {
            System.out.println(e);
            e.printStackTrace();
        }
    }

    public void addAddress(String Name, String Address) {
        ByteArrayOutputStream os = new ByteArrayOutputStream();
        DataOutputStream output = new DataOutputStream(os);

        try {
            output.writeUTF(Name + "," + Address);
        } catch (IOException e) {
            System.out.println(e);
            e.printStackTrace();
        }

        byte[] b = os.toByteArray();
        try {
            rs.addRecord(b, 0, b.length);
        } catch (RecordStoreException e) {
            System.out.println(e);
            e.printStackTrace();
        }
    }

    public static String getName(int index) {
        int counter = 1;
        int commalocation = 0;
        String name = null;

        try {
            RecordEnumeration enumRec = rs.enumerateRecords(null, null, false);
            while ((counter <= index) && (enumRec.hasNextElement())) {
                String strTemp = new String(enumRec.nextRecord());
                commalocation = strTemp.indexOf(',');
                name = strTemp.substring(2, commalocation);
                counter++;
            }
        } catch (Exception e) {
            System.out.println(e);
            e.printStackTrace();
        }

        System.out.println("Name:::::::::" + name);
        return name;
    }

    public static String getAddress(int index) {
        int counter = 1;
        int commalocation = 0;

```



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```

String address = null;

try {
RecordEnumeration enumRec = rs.enumerateRecords(null, null, false);
while ((counter <= index) && (enumRec.hasNextElement())){
String strTemp = new String(enumRec.nextRecord());
commalocation = strTemp.indexOf(',');
address = strTemp.substring(commalocation + 1);
counter++;
}
} catch (Exception e) {
System.out.println(e);
e.printStackTrace();
}

System.out.println("Address:::::::::" + address);
return address;
}

public static int recordCount(){
int count = 0;
try {
count = rs.getNumRecords();
} catch (Exception e) {
System.out.println(e);
e.printStackTrace();
}
return count;
}

public void loadXML() {
StreamConnection c = null;
InputStream s = null;
Attribute att = null;
String Name = null;
String Address = null;
try {
rs.closeRecordStore();
rs.deleteRecordStore("addressbook");
rs = RecordStore.openRecordStore("addressbook", true);
} catch (Exception e) {
System.out.println(e);
e.printStackTrace();
}
try {
c = (StreamConnection)Connector.open("http://localhost:8080/AddressB
s = c.openInputStream();

XmlParser parser = new XmlParser(new InputStreamReader(s));
Document document = new Document();
document.parse(parser);
System.out.println(document);
Element root = document.getRootElement();
int children = root.getChildCount();

for(int i=0; i < children; i++) {
if (root.getType(i) == Xml.ELEMENT) {
Element el = root.getElement(i);
int babies = el.getChildCount();
for(int j=0; j < babies; j++){
if (el.getType(j) == Xml.ELEMENT) {
Element elName = (Element)el.getChild(j);

```

```

if (elName.getName().equals("name")) {
    att = elName.getAttribute("value");
    Name = att.getValue();
} else if (elName.getName().equals("address")) {
    att = elName.getAttribute("value");
    Address = att.getValue();
}
}
}
}
addAddress(Name, Address);
}
}
}
} catch (IOException err) {
    System.out.println(err);
    err.printStackTrace();
}
}

public void pauseApp() {}

public void destroyApp(boolean unconditional) {
    notifyDestroyed();
}
}
}

```

AddressBook.xml

```

<?xml version="1.0"?>

<addressbook >

    <name>Sandeep Kumar
    Suman</name>

    <address>Gorakhpur</address>

</addressbook>

```

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December 29, 2011

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