

How_to_use_HTTP_Get_request_in_Java_ME

Reviewer Approved



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```
/**
 * This program demonstrates how to establish a
 * HttpConnection and uses it to send a GET request
 * to web server.
 *
 */
import javax.microedition.midlet.*;
import javax.microedition.lcdui.*;
import javax.microedition.io.*;
import java.io.*;

public class HttpGET extends MIDlet implements CommandListener
{

    /*
    * the default value for the url string is
    *
    * user can change it to some other urls within the application
    */
    private static String defaultURL = "http://localhost";

    // GUI component for user to enter web url
    private Display myDisplay = null;
    private Form mainScreen;
    private TextField requestField;

    // GUI component for displaying web page content
    private Form resultScreen;
    private StringItem resultField;

    // the "send" button used on mainScreen
    Command sendCommand = new Command("SEND", Command.OK, 1);
    // the "back" button used on resultScreen
    Command backCommand = new Command("BACK", Command.OK, 1);

    public HttpGET()
    {

        // initializing the GUI components for entering web urls
        myDisplay = Display.getDisplay(this);
        mainScreen = new Form("Type in a URL:");
        requestField = new TextField(null, defaultURL, 100, TextField.URL);
        mainScreen.append(requestField);
        mainScreen.addCommand(sendCommand);
        mainScreen.setCommandListener(this);
    }

    public void startApp()
    {
        myDisplay.setCurrent(mainScreen);
    }

    public void pauseApp()
    {
    }
}
```

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```
public void destroyApp(boolean unconditional)
{
}

public void commandAction(Command c, Displayable s)
{
    // when user clicks on "send" button on mainScreen
    if (c == sendCommand)
    {
        // retrieving the web url that user entered
        String urlString = requestField.getString();

        // sending a GET request to web server
        String resultstring = sendGetRequest(urlstring);

        // displaying the page content retrieved from web server
        resultScreen = new Form("GET Result:");
        resultField = new StringItem(null, resultstring);
        resultScreen.append(resultField);
        resultScreen.addCommand(backCommand);
        resultScreen.setCommandListener(this);
        myDisplay.setCurrent(resultScreen);
    }
    else if (c == backCommand)
    {
        // do it all over again
        requestField.setString(defaultURL);
        myDisplay.setCurrent(mainScreen);
    }
}

// send a GET request to web server
public String sendGetRequest(String urlString)
{
    HttpConnection hc = null;
    DataInputStream dis = null;

    String message = "";

    try
    {
        /* opening up http connection with the web server
        * when the connection is opened, the default request
        * method is GET
        */
        hc = (HttpConnection)
        Connector.open(urlstring);

        // establishing input stream from the connection
        dis = new DataInputStream(hc.openInputStream());

        // reading the response from web server character by character
        int ch;
        while( (ch = dis.read()) != -1 )
        {
            message = message + (char) ch;
        }
    }
}
```

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```
    }  
    }  
    catch (IOException ioe)  
    {  
        message = "ERROR";  
    }  
    finally  
    {  
        try { if(hc != null) hc.close(); } catch (IOException ignored) {}  
        try { if(dis != null) dis.close(); } catch (IOException ignored) {}  
    }  
    return message;  
} }  
}
```