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import java.util.*;
import java.io.*;
import java.net.*;
import java.security.*;
import java.text.*;

import javax.net.ssl.HostnameVerifier;
import javax.net.ssl.HttpURLConnection;
import javax.net.ssl.SSLSession;

class PaymentGateway {

    protected String server;
    protected String port;
    protected String path;
    protected String username;
    protected String password;

    public PaymentGateway(String user, String pass)
    {

        server = "secure.payscout.com";
        port = "443";
        path = "https://secure.payscout.com/api/transact.php";
        username = user;
        password = pass;

    }

    public HashMap doSale( double amount,
                          String ccNumber,
                          String ccExp
                          ) throws Exception
    {
        HashMap result = new HashMap();
        HashMap request = new HashMap();

        DecimalFormat form = new DecimalFormat("#.00");

        request.put("amount", form.format(amount));
        request.put("type", "sale");
        request.put("ccnumber", ccNumber);
        request.put("ccexp", ccExp);

        String data_out = prepareRequest(request);

        String error = "";
        String data_in = "";
        boolean success = true;
        try {
            HashMap retval = postForm(data_out);
            data_in = (String)retval.get("response");
            result.put("transactionid", retval.get("transactionid"));
        } catch (IOException e) {
            success = false;
            error = "Connect error, " + e.getMessage();
        } catch (Exception e) {

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        success = false;
        error = e.getMessage();
    }
    if (!success) {
        throw new Exception(error);
    }

    return result;
}

// Utility Functions

public String prepareRequest(HashMap request) {

    if (request.size() == 0) {
        return "";
    }

    request.put("username", username);
    request.put("password", password);

    Set s = request.keySet();
    Iterator i = s.iterator();
    Object key = i.next();
    StringBuffer buffer = new StringBuffer();

    buffer.append(key).append("=")
        .append(URLEncoder.encode((String) request.get(key)));

    while (i.hasNext()) {
        key = i.next();
        buffer.append("&").append(key).append("=")
            .append(URLEncoder.encode((String) request.get(key)));
    }

    return buffer.toString();
}

protected HashMap postForm(String data) throws Exception {

    HashMap result = new HashMap();

    HttpURLConnection postConn;

    HostnameVerifier hv = new HostnameVerifier() {
        public boolean verify(String urlHostName, SSLSession session) {
            return true;
        }
    };

    HttpsURLConnection.setDefaultHostnameVerifier(hv);

    URL post = new URL("https", server, Integer.parseInt(port), path);
    postConn = (HttpURLConnection)post.openConnection();

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postConn.setRequestMethod("POST");
postConn.setDoOutput(true);

PrintWriter out = new PrintWriter(postConn.getOutputStream());
out.print(data);
out.close();

BufferedReader in =
    new BufferedReader(new InputStreamReader(postConn.getInputStream()));

String inputLine;
StringBuffer buffer = new StringBuffer();
while ((inputLine = in.readLine()) != null) {
    buffer.append(inputLine);
}
in.close();

String response = buffer.toString();

result.put("response", response);

// Parse Result
StringTokenizer st = new StringTokenizer(response, "&");
while (st.hasMoreTokens()) {
    String varString = st.nextToken();
    StringTokenizer varSt = new StringTokenizer(varString, "=");
    if (varSt.countTokens() > 2 || varSt.countTokens() < 1) {
        throw new Exception("Bad variable from processor center: " +
varString);
    }
    if (varSt.countTokens() == 1) {
        result.put(varSt.nextToken(), "");
    } else {
        result.put(varSt.nextToken(), varSt.nextToken());
    }
}

if (result.get("response") == "") {
    throw new Exception("Bad response from processor center" + response);
}

if (!result.get("response").toString().equals("1")) {
    throw new Exception(result.get("responsetext").toString());
}

return result;
}
}

public class TestPaymentGateway
{
    public static void main(String arg[])
    {
        HashMap retval = new HashMap();

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PaymentGateway gw = new PaymentGateway("demo", "password");

try {
    retval = gw.doSale(10.05, "4111111111111111", "0909");
    System.out.println("Success\nTransId: " +
retval.get("transactionid") + "\n");
} catch (Exception e) {
    System.out.println("Error: " + e.getMessage());
}
}
}
```