shurjoMukhi – shurjoPay Platform

Online Payment Service

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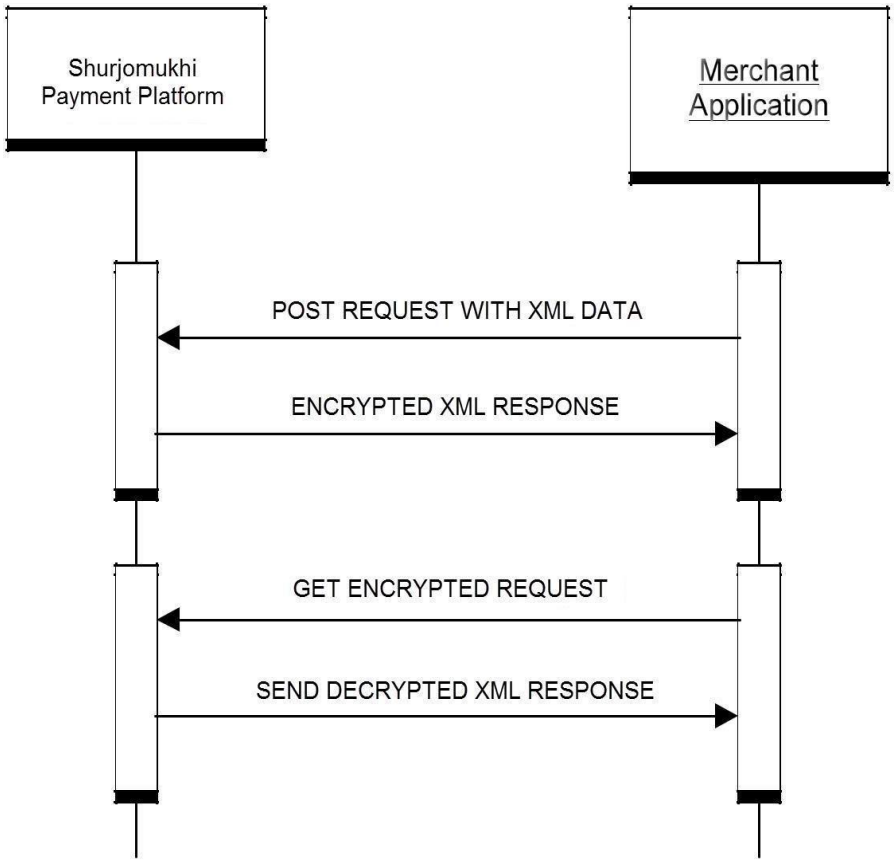
1. Introduction

This document provides the specifications of the Connector that link the shurjoMukhi's ShurjoPay Platform and third-party service partners. The purpose is to assist the partners, in this case Merchants, in preparing their infrastructure for integration with the shurjoMukhi's ShurjoPay Platform in order to perform real time transaction and verification against payment services.

2. Protocol and Call Flow

- Merchant application will initiate the connect request to shurjoMukhi's ShurjoPay platform connector.
- This can be achieved by merchant sending request to specific web service address at shurjoMukhi's ShurjoPay with transaction reference (txID, bankTxID, bankTxStatus, spCode, spCodeDes, paymentOption) and shurjoMukhi's ShurjoPay API User and Password as input parameter.
- HTTP(S) request method is **POST.**
- All the request parameters are passed as part of query string along with the URL.
- **Basic Authentication** is used as the agreed-upon method to negotiate credentials via request header over HTTPS.
- Request Body Content-type is for XML: application/xml.
- Http Header fields **Accept** and Request Body **Content-type** should remain the same.
- Encrypted response post to merchant end and Merchant need to request decryption from ShurjoPay.

Below diagram shows the request/response call flow between the shurjoMukhi's ShurjoPay connector and merchant application.



3. Check by Transaction ID

3.1 Request Parameters

Parameter	Mandatory	Data Format	Description	Sample Value
merchantName	Yes	String	User Name provided by shurjoMukhi limited	spaytest
merchantPass	Yes	Given Credentials	Strong Password	Password
userIP	Yes	userIP		192.168.11.22
uniqID	Yes	Generated	Generated with given prefix	PPT5454dfss54df56s4f
totalAmount	Yes	Amount to receive	User's given product amount	1000.00
paymentOption	Yes		Selected by user	
returnURL	Yes	Given by Merchant	Given by Merchant	https://xxx.xxx/payment

3.2 Response Fields

Field Name	Data Type	Description	Sample Value
txID	Alpha Numeric Charaters	Unique transaction reference generated by shurjoMukhi's ShurjoPay platform upon successful transaction	PPT5454dfss54df56s4f
bankTxID	String	Status of the transaction id from bank	IDKFJ654GH
bankTxStatus	String	Transaction status	SUCCESS/FAIL
spCode	String	Status Code	000
spCodeDes	Numeric	Payment status description	Transaction Decline
paymentOption	String	Selected Payment option by user	AMEX/bKsah

3.3 Response Encryption and Decryption Process

ShurjoPay Response with Encrypted XML which is then decrypted back to merchant again.

Step 1: Encrypted response post to merchant end.
Step 2: Merchant need to request decryption from ShurjoPay.

3.4 Example Request (POST method)

3.4.1 Request sample Url:

https://shurjopay.com/sp-data.php

3.4.2 Request sample In XML:

```
spdata=<?xml version="1.0" encoding="utf-
  8"?> <shurjoPay>
    <merchantName>TestMerchant</merchantName>
    <merchantPass><-Password-></merchantPass>
    <userIP>0.4.73.0</userIP>
    <uniqID>SPuhu435</uniqID>
    <totalAmount>1000</totalAmount>
    <paymentOption>bkash</paymentOption>
    <returnURL>http://localhost/spRaw/returnurl.php</returnURL>
  </shurjoPay>
```

3.5 Example Response (Post Method)

Requested Decryption URL:
https://shurjopay.com/merchant/decrypt.php
Parameter: data

3.5.1 Response sample In XML:

```
<spResponse>
  <txID>NOK1501584258</txID>
  <bankTxID></bankTxID>
  <bankTxStatus>FAIL</bankTxStatus>
  <txnAmount>10</txnAmount>
  <spCode>001</spCode>
  <spCodeDes>Bank Transaction Failed.-tbl</spCodeDes>
  <paymentOption>stbl</paymentOption>
</spResponse>
```

```
<spResponse>
  <txID>NOK1501584258</txID>
  <bankTxID></bankTxID>
  <bankTxStatus>SUCCESS</bankTxStatus>
  <txnAmount>10</txnAmount>
  <spCode>000</spCode>
  <spCodeDes>Successful-tbl</spCodeDes>
  <paymentOption>stbl</paymentOption>
</spResponse>
```

4. Transaction Status Codes

Code	Message	Interpretation
000	Success.	Success.
001	Transaction Failed	Transaction Failed