**KAYA Token API Document**

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**Version**

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| --- | --- | --- |
| **Developer Name** | **Date** | **Version** |
| Dennis Chirchir | 17/05/2023 | 1.0 |

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**1 OverView.**

Paying bills electronically is one of the most popular cashless payment services available today. Nearly all banks and fintechs offer bill payments services for various service providers such as electricity and water utilities, pay TV and school fees. This project aims API is to develop a bill payment processing system for an electricity utility Kaya.

The project has been developed with .Net Framework and SQL database. The API transfers information in XML format.

# 2 API project Gitlab repository

[**https://github.com/its-deniskipps/KAYAAPI**](https://github.com/its-deniskipps/KAYAAPI)

# 4 Methods

**4.1.1 Inquire customer sample request**

/Inquire customer

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:loc="http://localhost:18752/">

<soap:Header/>

<soap:Body>

<loc:InquireCustomer>

<loc:requestCode>001</loc:requestCode>

<loc:custRef>KAYA001</loc:custRef>

<loc:ApiUsername>KAYAUSER</loc:ApiUsername>

<loc:ApiPassword>!@#$1234</loc:ApiPassword>

</loc:InquireCustomer>

</soap:Body>

</soap:Envelope>

**4.1.2 Inquire customer Response**

**Success Response**

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

<soap:Body>

<InquireCustomerResponse xmlns="http://localhost:18752/">

<InquireCustomerResult>Success|FirstName : Dennis ^ Email :denisekipps@gmail.com</InquireCustomerResult>

</InquireCustomerResponse>

</soap:Body>

**Wrong Credentials**

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

<soap:Body>

<InquireCustomerResponse xmlns="http://localhost:18752/">

<InquireCustomerResult>E|222|INVALID API CREDENTIALS</InquireCustomerResult>

</InquireCustomerResponse>

</soap:Body>

</soap:Envelope>

### 4.2 Post Payment

The endpoint enables the customer to submit payments and receive the Token incase amounts is within limit and if the customer is valid.

**4.2.1 PostPaymentTransaction Method**

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:loc="http://localhost:18752/">

<soap:Header/>

<soap:Body>

<loc:PostPaymentTransaction>

<loc:kayarequestCode>001</loc:kayarequestCode>

<loc:custRef>KAYA001</loc:custRef>

<loc:ApiUsername>KAYAUSER</loc:ApiUsername>

<loc:ApiPassword>!@#$1234</loc:ApiPassword>

<loc:custPhone>0715175279</loc:custPhone>

<loc:Amount>50000</loc:Amount>

</loc:PostPaymentTransaction>

</soap:Body>

</soap:Envelope>

**4.2.2 Response**

**Success**

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

<soap:Body>

<PostPaymentTransactionResponse xmlns="http://localhost:18752/">

<PostPaymentTransactionResult>Success| Token :KAYA001\_100\_146558656620027554971655^TokenUnits :100</PostPaymentTransactionResult>

</PostPaymentTransactionResponse>

</soap:Body>

</soap:Envelope>

**Failure**

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

<soap:Body>

<PostPaymentTransactionResponse xmlns="http://localhost:18752/">

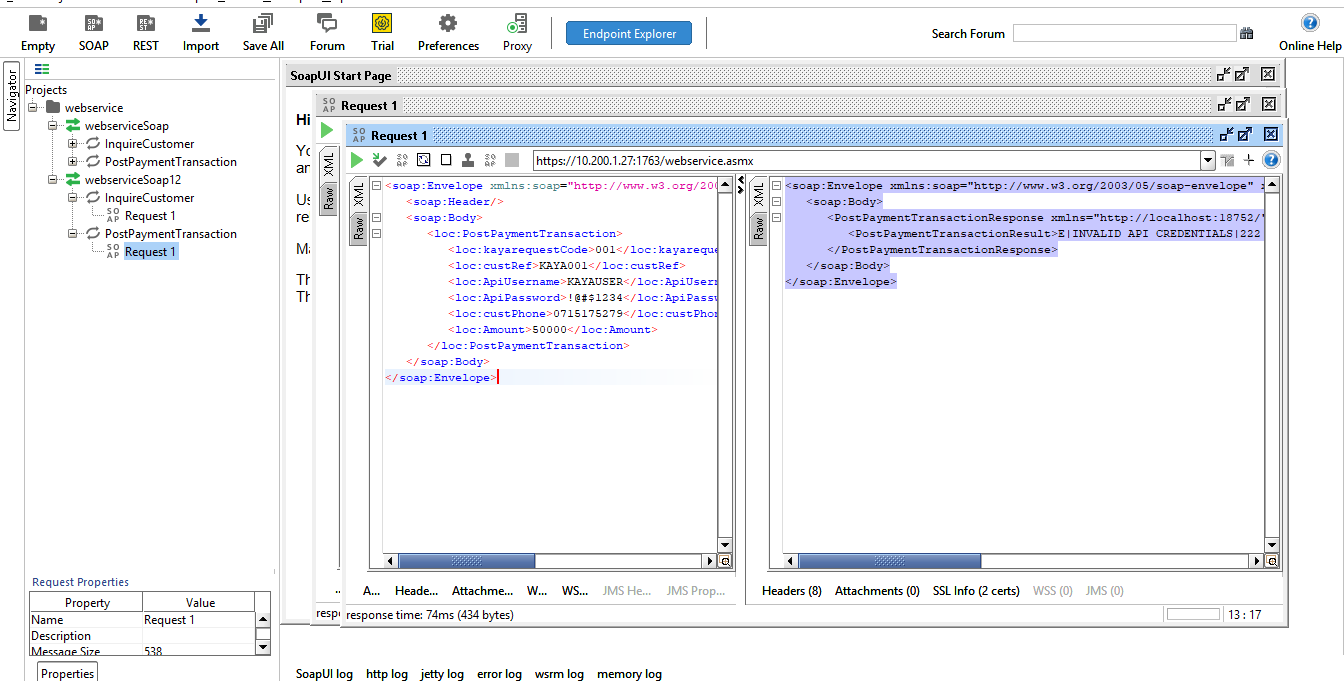
<PostPaymentTransactionResult>E|INVALID API CREDENTIALS|222|XX</PostPaymentTransactionResult>

</PostPaymentTransactionResponse>

</soap:Body>

</soap:Envelope>

Request and Response from SOAP UI



## 5. Status Codes

|  |  |
| --- | --- |
| **Status Code** | **Description** |
| 444 | **INVALID CUSTOMER REFERENCE SUPPLIED** |
| 333 | **INVALID UTILITY CODE SUPPLIED** |
| 222 | **INVALID API CREDENTIALS** |
| 777 | **AMOUT PAID IS ABOVE MAXIMUM FOR TOKEN** |
| 999 | **KAYA NEW INQ GENERAL ERROR** |
| 778 | **AMOUT PAID IS ABOVE MAXIMUM FOR TOKEN** |
| 779 | **AMOUT PAID IS BELOW MINIMUM FOR TOKEN!** |