**FAMILY BANK API**

**REST API DEVEVELOPMENT**

Proprietary Notice

Technical Interview for REST API DEVELOPMENT.

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Revised By** |
| 13th Oct 2022 | 1.0 | Initial Draft | Dickson Andati |

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# **Introduction**

Technical Interview for REST API DEVELOPMENT.

# **Scope**

The scope of this document is an API specification for:

1. Customer Inquiry API (REST)
2. Fund Transfer API (REST)

# **Integration Requirements**

1. Communication protocol will be either HTTP or HTTPS (1 way SSL or 2 way SSL)
2. REST integration will be as per the guidelines and two service endpoints shall be provided for the two operations

# **API Specification**

## **Customer Account Inquiry Interface**

This is the interface to validate the existence of a customer account. Bank Platform initiate a request to the Third-Party platform to validate the existence if the Account.

|  |  |
| --- | --- |
| **Interface ID** | **getAccountValidation** |
| Version | 1.2 |
| Interface Type | REST |
| Target Applications | Institution Back Office System |
| Description | Validate the existence of an entity identified with a third Party institution |
| REST Message Format | JSON |
| REST METHOD | GET |
| Endpoint | /api/Validate |

### **Customer Inquiry Request Parameters Definition**

|  |  |  |  |
| --- | --- | --- | --- |
| **Request Parameters Definitions** | | | |
| **Field** | **Description** | **Format** | **Mandatory** |
|  | **Body** |  |  |
| AccountCode | The unique identifier for the customer Account.  It can be Customer Account Number or Mobile Number | String | Y |

### **Customer Inquiry Request Parameters Structure**

|  |  |
| --- | --- |
| **Parameter** | **Description** |
| JSON Request String | {      "AccountCode":"122233"  } |

### **Customer Inquiry Response Message Structure**

|  |  |
| --- | --- |
| **Parameter** | **Description** |
| JSON String | {      "StatusCode": 200,      "AccountCode": "122233",      "AccountName": "DICKSON ANDATI",      "BillCurrency": "KES",      "ReturnDate": "2022-10-13T00:00:00+03:00"  } |

## **Payment Advice Interface**

This interface handles notification to an institution of a successful Payment transaction from the core banking system to third-party applications.

|  |  |
| --- | --- |
| **Interface ID** | **PaymentAdvice** |
| Version | 1.0 |
| Interface Type | REST |
| Target Application | Institution Back Office System |
| Description | Updates an institution for a successful collection from an institution’s customer |
| REST Endpoint | ../api/PaymentAdvice |
| REST METHOD | POST |
| REST Message Format | JSON |

### **Payment Advice Parameters Definition**

|  |  |  |  |
| --- | --- | --- | --- |
| **Request Parameters Definitions** | | | |
| **Field** | **Description** | **Format** | **Mandatory** |
|  | **Body** |  |  |
| TransactionRefCode | The unique identifier generated for the transaction by the Bank Core System e.g. *IB116538f8aa846O51* | String | Y |
| TransactionDate | Date of the transaction request. Eg *2018-08-15T12:26:47.2358178+03:00* | Datetime | Y |
| PaymentDate | Date of Payment | Datetime | Y |
| PaymentAmount | Total transaction amount | Decimal | Y |
| Currency | Transaction Currency.(KES,USD) | String | Y |
| DocumentRefNo | The document/Account being paid for | String | Y |
| PaymentCode | Payment Code | String | N |
| PaymentMode | The mode customer paid through | String | Y |
| AdditionalInfo | Payment Additional information | String | N |
| AccountNumber | School/Bank Customer Account No being credited | String | Y |
| AccountName | School/Bank Customer Account Name being credited | String | Y |
| InstitutionCode | The Customer No of the School in the Bank Systems | String | Y |
| InstitutionName | The Customer Name of the School in the Bank Systems | String | Y |
| BankCode | Transaction origination bank code. | String | Y |
| BranchCode | Transaction origination bank Branch code | String | Y |
| ServiceName | Third-Party Service Name | String | Y |
| MessageID | The request unique request ID | String | Y |

### **Payment Advice Message Structure**

|  |  |
| --- | --- |
| **Parameter** | **Description** |
| JSON String | {      "TransactionRefCode":"MXA62626233",      "DocumentRefNo":"122231",      "TransactionDate":"2022/10/13",      "PaymentDate":"2022/10/13",      "PaymentAmount":50000,      "Currency":"KES",      "PaymentCode":"",      "PaymentMode":"MPESA",      "AdditionalInfo":"",      "AccountNumber":"1000045422411",      "AccountName":"XYZ School",      "InstitutionCode":"XYZ",      "InstitutionName":"XYZ School",      "BankCode":"FABL",      "BranchCode":"FABLKENA",      "ServiceName":"XYZService",      "MessageID":"123344444"  } |

### **Payment Advice Response Message Structure**

|  |  |
| --- | --- |
| **Parameter** | **Description** |
| JSON String | {      "StatusCode": 200,      "ReturnDate": "2022-10-13T00:00:00+03:00",      "Message": "Payment Advice MXA62626237 Posted Successfully"  } |

# **Response Codes**

Possible response codes are as below:

|  |  |  |
| --- | --- | --- |
| **Status Codes** | **Code** | **Message Description** |
| 200 | Success |
| 400 | The parameters are not valid or they are missing. |
| 401 | The caller is not authorized for this request. |
| 402 | Duplicate transaction detected |
| 404 | The task/operation does not exist. |
| 405 | A severe problem has occurred. |