

# Payment Link as API

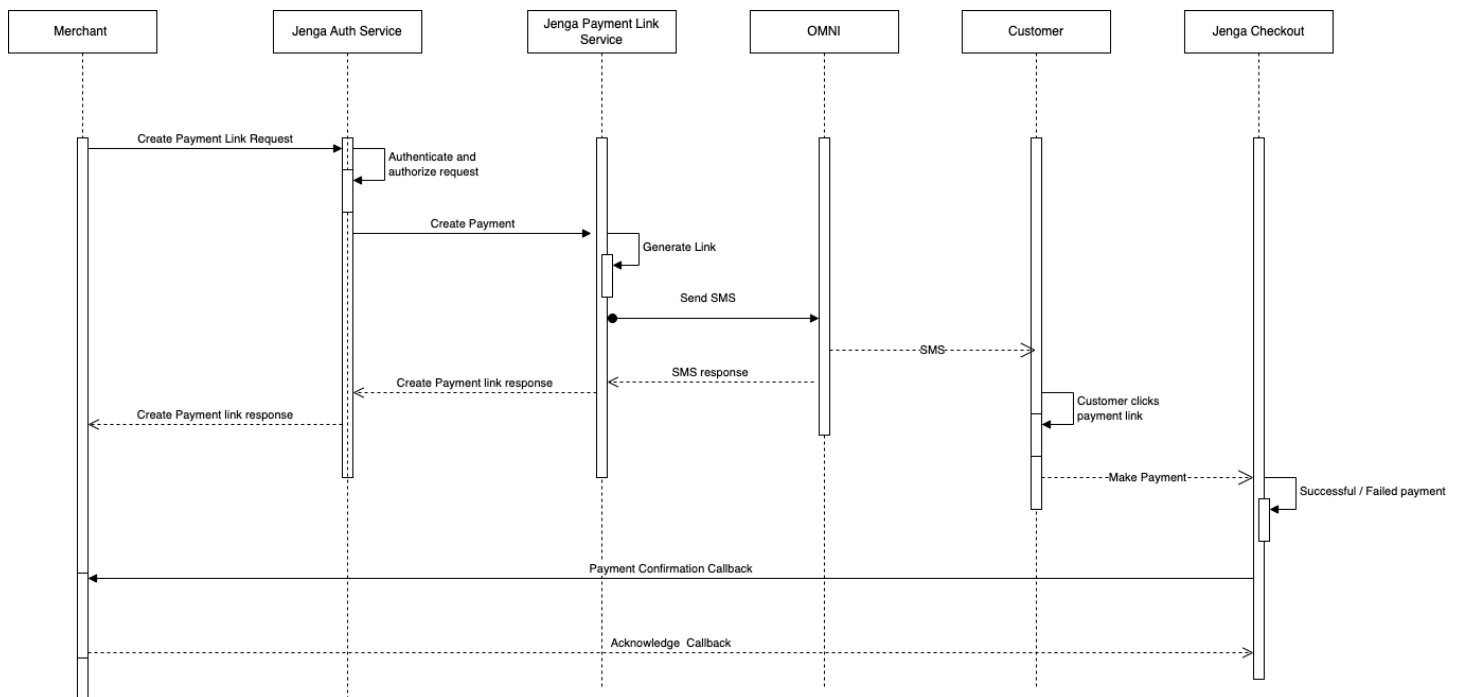
Last updated by | David Mwangi | 22 Mar 2024 at 16:55 GMT+3

## Introduction

Currently merchants can only create payment links by login in into Jenga HQ (Merchant Portal) and share the links either via Email or SMS.

This integration allows creating of Payment Links via APIS.

## Sequence



### Description of the sequence

- Merchant will generate a JWT token from Jenga with credentials provided on Jenga HQ.
- Merchant will call Jenga (Api-Checkout-service) to create the payment link and send it to the customer via checkout API service per specified notifications options given on the API.
- Api-checkout service will send an email or SMS to the Customer depending on the preferred notification method.
- The customer will receive an SMS or Email with the link to pay.
- The customer will click the payment link and get redirected to payment link form to confirm the details. Once ascertain of payment details including the the mount, the customer will proceed to payment which will launch the checkout.
- On success/ Failed Payment, the IPN service will send a callback to the merchant via the URL registered on Jenga HQ.

## Interface definition

Interface ID	paymentAsAPis
version	1.0
Interface Type	REST/JSON
Mode	Synchronous
Method	POST
Endpoint	/api/v1/create/payment-link
Description	Create Payment Link using API

API Specification

Microservices Involved:

- 1. api-checkout-service
- 2. api-notification-service
- 3. api-payments-service
- 4. api-ipn-service

Data Architecture

Field Name	Type	Description	Mandatory
customers[0].firstName	String	First Name of the customer	Yes
customers[0].lastName	String	Last Name of the customer	Yes
customers[0].email	String	Customer Email	Yes
customers[0].firstAddress	String	Physical Address	No
customers[0].countryCode	String	Alpha-2-country code E.g KE	Yes
customers[0].postalOrZipCode	String	Postal or Zip Code	No
customers[0].customerExternalRef	String	Unique identifier for customer, On SINGLE payment link this is same as externalRef .For BuLK each must be unique	No
paymentLink.expiryDate	String	Link Expiry date format (yyy-MM-dd)	Yes
paymentLink.saleDate	String	Date service or product offered in format (yyy-MM-dd)	Yes
paymentLink.saleType	String	Specify type of sale been offered: product or service	Yes
paymentLink.paymentLinkType	String	Either Single or Bulk	Yes
<a href="#">paymentLink.name</a>	String	Name of product or Service	Yes
paymentLink.description	String	description of service or product offered	Yes
paymentLink.externalRef	String	Third Party reference	Yes
paymentLink.paymentLinkRef	String	Link ref, used for updating link details	No
paymentLink.redirectURL	String	Website url to be redirected to on successful payment by customer	No
paymentLink.amountOption	String	Allow or restrict customer from change amount on payment link	Yes
paymentLink.amount	Double	Payment Link amount	Yes
notifications []	Array of Strings	Specify modes for customer to receive the payment link Either SMS or EMAIL, Empty array if no notification is to be sent	No

## SINGLE Payment Link Sample Request

POST {api-checkout-service-url}/api/v1/create/payment-link

```
{
  "customers": [
    {
      "firstName": "David",
      "lastName": "Mwangi",
      "email": "davidmwangi0902@gmail.com",
      "phoneNumber": "254708028398",
      "firstAddress": "", //Optional
      "countryCode": "KE", //alpha-2-code,
      "postalOrZipCode": "00100" //Optional,
      "customerExternalRef": "565657788779"
    }
  ],
  "paymentLink": {
    "expiryDate": "2024-03-22",
    "saleDate": "2024-02-20",
    "paymentLinkType": "SINGLE", // BULK
    "saleType": "SERVICE", // PRODUCT
    "name": "Hotel Reservation", //Name of the product/ service
    "description": "Hotel Reservation", //Description of the product or service
    "externalRef": "565657788779", // Third Party Reference
    "paymentLinkRef": "", //To be used to update the record, send
    "redirectURL": "https://v3.jengahq.io",
    "amountOption": "OPEN", //RESTRICTED
    "amount": 500,
    "currency": "KES"
  },
  "notifications": [
    "EMAIL",
    "SMS"
  ]
}
```

## BULK Payment Link Sample Request

```
{
  "customers": [
    {
      "firstName": "David",
      "lastName": "Mwangi",
      "email": "davidmwangi0902@gmail.com",
      "phoneNumber": "254708028398",
      "firstAddress": "", //Optional
      "countryCode": "KE", //alpha-2-code,
      "postalOrZipCode": "00100", //Optional
      "customerExternalRef": "8398932700111222"
    },
    {
      "firstName": "Clifford",
      "lastName": "Silla",
      "email": "clifford.silla@equitybank.co.ke",
      "phoneNumber": "254721577557",
      "firstAddress": "", //Optional
      "countryCode": "KE", //alpha-2-code,
      "postalOrZipCode": "00100", //Optional,
      "customerExternalRef": "839893272262515252"
    }
  ],
  "paymentLink": {
    "expiryDate": "2024-03-22",
    "saleDate": "2024-02-20",
    "paymentLinkType": "BULK", // BULK
    "saleType": "SERVICE", // PRODUCT
    "name": "Finserve Hotel Reservations", //Name of the product/ service
    "description": "Finserve Hotel Reservations", //Description of the product or service
    "externalRef": "46276268228728722", // Third Party Reference
    "paymentLinkRef": "", //To be used to update the record, send
    "redirectURL": "https://v3.jengahq.io",
    "amountOption": "OPEN", //RESTRICTED
    "amount": 500,
    "currency": "KES"
  },
  "notifications": [
    "EMAIL",
    "SMS"
  ]
}
```

### Success Response:

```
{
  "status": true,
  "code": 200,
  "message": "Payment link successfully generated",
  "metadata": {},
  "data": {
    "dateCreated": 1709277210697,
    "paymentLinkRef": "456175577507808",
    "externalRef": "565657788779",
    "status": {
      "code": "PEND",
      "name": null
    }
  }
}
```

### Error Response

```
{  
  "status": false,  
  "code": 400,  
  "message": "Payment already completed for this Link, editing of this payment link is not allowed",  
  "metadata": {}  
}
```

## Error codes

### Error Code Error Description

400 Payment already completed for this Link, editing of this payment link is not allowed.