

CASHLEZ LINK

Specification Documentation

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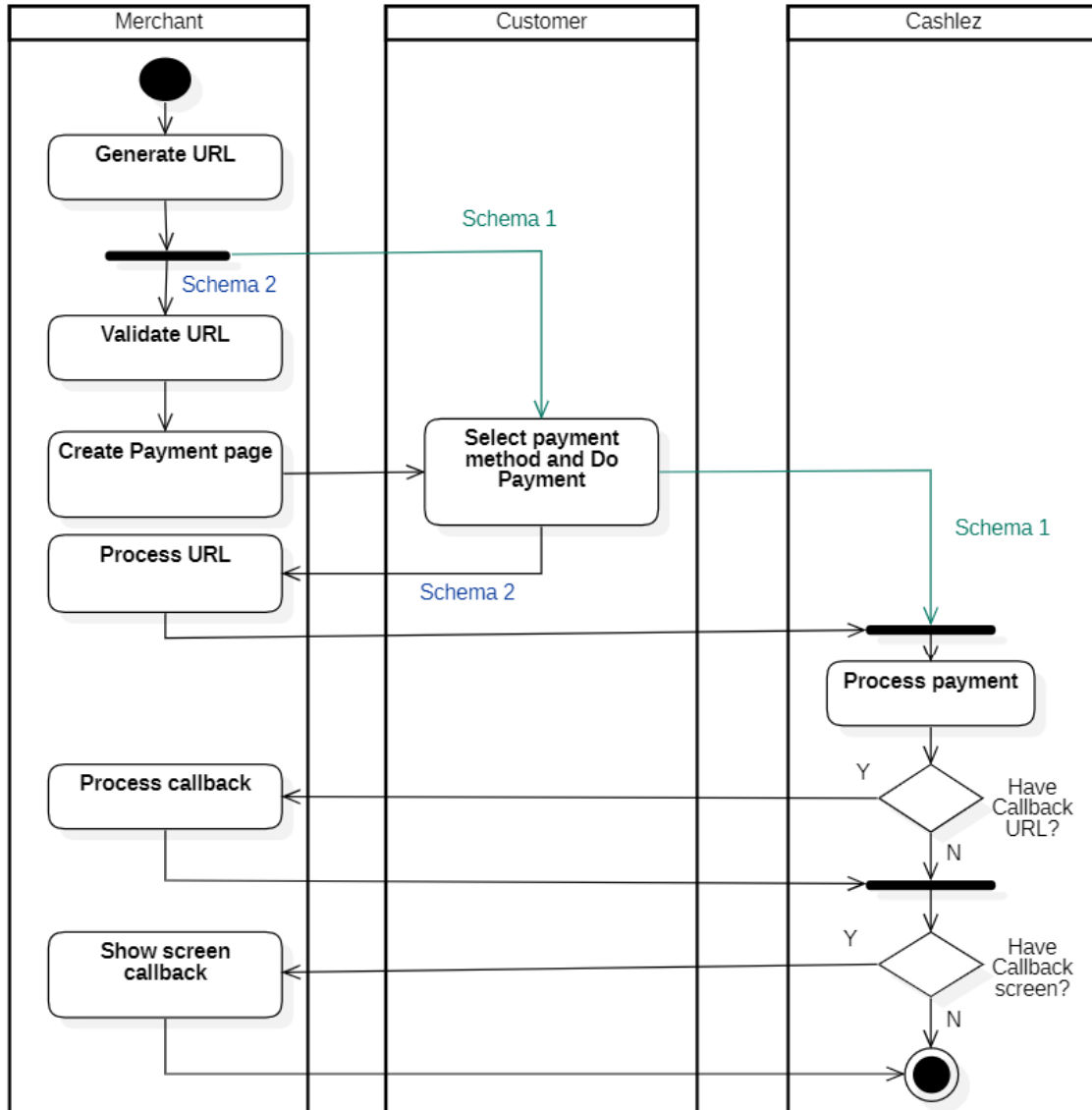
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Owner	Nurul Musaffa	Product Manager



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1. Cashlez Link Diagram Flow



Picture 1: Cashlez Link overview flow

2. Overview of Cashlez Link APIs

HOST: <https://api-link.cashlez.com/>

All API requests must be made over HTTPS. Calls made over plain HTTP and API requests for Generate URL without authentication will fail.

No	Endpoint	Usage
1	/generate_url_vendor	Generate URL
2	/validate_url	Check transaction status and get payment methods
3	/process_url	Process payment with selected method

3. Authentication

a) How to create Signature with RSA base on Java

Below is the simple snippet of Java source code please modify as needed.

```
import java.security.PrivateKey;
import java.security.PublicKey;
import java.security.Signature;
import java.util.Base64;
import static java.nio.charset.StandardCharsets.UTF_8;

public static String signWithPayload(String payload, PrivateKey clientPrivateKey)
throws Exception {
    Signature privateSignature =
        Signature.getInstance("SHA256withRSA");
    privateSignature.initSign(clientPrivateKey);
    privateSignature.update(payload.getBytes(UTF_8));
    byte[] signature = privateSignature.sign();
    return Base64.getEncoder().encodeToString(signature);
}
```

b) payload = request JSON that has been minified

For example:

```
{
  "data": {
    "request": {
      "vendorIdentifier": "DEV00TEST003",
      "referenceId": "MERCHANT_TRX_ID_001",
      "entityId": "34232",
      "merchantName": "Merchant 007",
      "merchantDescription": "Jl. Letjen. S. Parman No.28",
      "currencyCode": "IDR",
      "amount": 75000,
      "callbackSuccess": "",
      "callbackFailure": "",
      "message": "",
      "description": "Transaction From Cashlez",
      "transactionUsername": "test03"
    }
  },
  "signature": ""
}
```

Minify marked request with <https://jsoneditoronline.org/>

```
{"request":{"vendorIdentifier":" DEV00TEST003","referenceId":"MERCHANT_TRX_ID_001","entityId":"34232","merchantName":"Merchant 007","merchantDescription":"Jl. Letjen. S. Parman No.28","currencyCode":"IDR","amount":75000,"callbackSuccess":"","callbackFailure":"","message":"","description":"Transaction From Cashlez","transactionUsername":"test03"}}
```

c) PrivateKey: will be send by Cashlez

d) PublicKey: will be send by Cashlez

e) Generate Signature

Run method **signWithPayload**. The String result generated is signature and put value to **signature** attribute.

You can also use this website tool to Generate or Verify signature:

URL:

<https://8gwifi.org/RSAFunctionality?rsasignverifyfunctions=rsasignverifyfunctions&keysize=2048>

Follow the specification below:

Generate RSA Key Size 512 bit 1024 bit 2048 bit 4096 bit

Verify Signature

Generate Signature

Public Key	Private Key
<pre>Q/ot8MtsFz+nzbui+tiizniTCTRdi39TKTUd zFeMpOfLqsrPe2HSfKVBed/ILG6q w6MZuPM1AprXTXVLjz/IJnMLPZUIPRyy4 WxCxPe4mrhDCqD4Z+YKVtpE+e/jhPBu Ncloxn2QNUm0dLmbbBcTfPbfIT/D088gN rHv0kWKAPuwkdfxzjE9LBeivaVIP2Y UXdlpGUjRM/HDmdVy8zs+0hWmwt7fNJ SICFYSbZfJQ8V0CWHOWRVKdVvzpH9EXo M EwIDAQAB -----END PUBLIC KEY-----</pre>	<pre>6EPC1axj8rsCHRwzc8nmulDHM0ZRzwcF EAYK4DN/t7FZm5NISy7wmAX0nEqVOrjk+ zmfKfyLao34iV/Puzc79kwDg6aQ0kCK YTIZAoGARKIKJKcbRU+W1+UjcVhD+rb7 qALLPA2VdVqkviAVpdyMf//XR0NWA69 gNT4LJx3GvfZfL90LDjHrG4K5FmiXvfNxK powkcT2nKnlyfrwi/I1vkEF+5kb3i uDI3e11e6es212d2FvVhFntO1IFGjvB8e2G cWZ0XpKSsAUhm1B4= -----END RSA PRIVATE KEY-----</pre>

ClearText Message	Signature Output
<pre>No.28","currencyCode":"IDR","amount":75 000,"callbackSuccess":"","call backFailure":"","message":"","description": "Transaction From Cashlez","transactionUsername":"test03"}}</pre>	<pre>+AQ6KK73Q9p3tEEpMWPlaoLwvwXQtap SSCF8oin+s9NSKIm8Z+MOFJAelQQgPu78 bComKrqgRM3wAwhPazsQFi+CBbuh8LPT JFT9eWPMojv2+nYwPRLkeRKizi4vtN1IQ4 5PA==</pre>

Provide Signature Value (Base64)

Give Signature Value here in Base64 format for verification along with plaintext value and click on verify signature

RSA Signature Algorithms

- RSASSA-PSS
- SHA1WithRSA/PSS
- SHA224WithRSA/PSS
- SHA384WithRSA/PSS
- SHA1withRSAandMGF1
- SHA256withRSA
- sha1WithRSA
- sha384WithRSA
- sha512WithRSA
- Omd2WithRSA
- Omd5WithRSA

Picture 2: Signature generator online configuration



Detail:

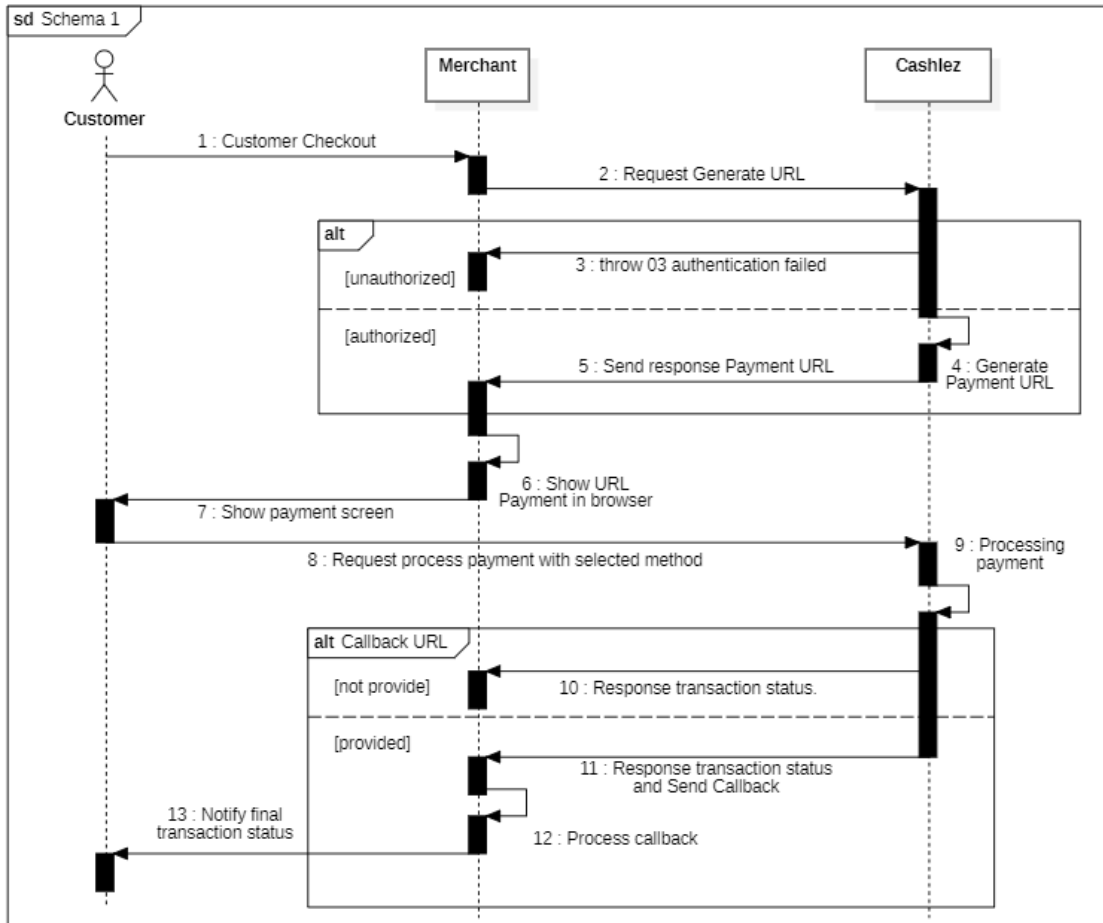
- **Public Key:** <YOUR PUBLIC KEY>
- **Private Key:** <YOUR PRIVATE KEY>
- **Cleartext Message:** <YOUR MINIFIED PAYLOAD REQUEST MESSAGE>
- **Signature Output:** <SIGNATURE OUTPUT>

Put this value to **signature** attribute on request body of Generate URL

<the rest of this page is intentionally left blank>

4. Schema 1

Schema 1 explains the flow that merchants take when integrating using the default page from Cashlez. Merchant needs to call the Generate URL API and will get a payment URL that can be opened via a browser and let the customer make payments according to the desired method choice.



Picture 3: Schema 1 Sequence Diagram

A. Generate URL

This API is requested from Merchant to Cashlez to generate payment URLs, after getting response from API, the URL can open via browser.

Setting	Value
Method	POST
Host	{HOST}
Path	/generate_url_vendor



Generate URL request body:

Parameter	Required	Data Type	Description
data.request.vendorIdentifier	M	String	Partner integration identifier (provided by Cashlez)
data.request.referenceId	M	String	Unique Transaction ID
data.request.entityId	M	String	Partner merchant id (Provided by Cashlez)
data.request.merchantName	M	String	Partner name
data.request.merchantDescription	M	String	Partner description
data.request.currencyCode	M	String	Currency code for amount
data.request.amount	M	Number	Amount to be paid
data.request.callbackSuccess	O	String	URL for success payment redirect
data.request.callbackFailure	O	String	URL for failed payment redirect
data.request.message	O	String	Message for the transaction
data.request.description	O	String	Description for the transaction
data.request.transactionUsername	M	String	Merchant username touse
signature	M	String	Please refer to appendixbelow creation of signature

Generate URL example request:

```
{
  "data": {
    "request": {
      "vendorIdentifier": "MERCHANT007",
      "referenceId": "DEV-001-0000001",
      "entityId": "12345",
      "merchantName": "Merchant 007",
      "merchantDescription": "Jl. Letjen. S. Parman 28",
      "currencyCode": "IDR",
      "amount": 46000,
      "callbackSuccess": "",
      "callbackFailure": "",
      "message": "Transaction message",
```



```
        "description": "Transaction From Cashlez",
        "transactionUsername": "username007"
    }},
    "signature": "{YOUR_SIGNATURE}"
}
```

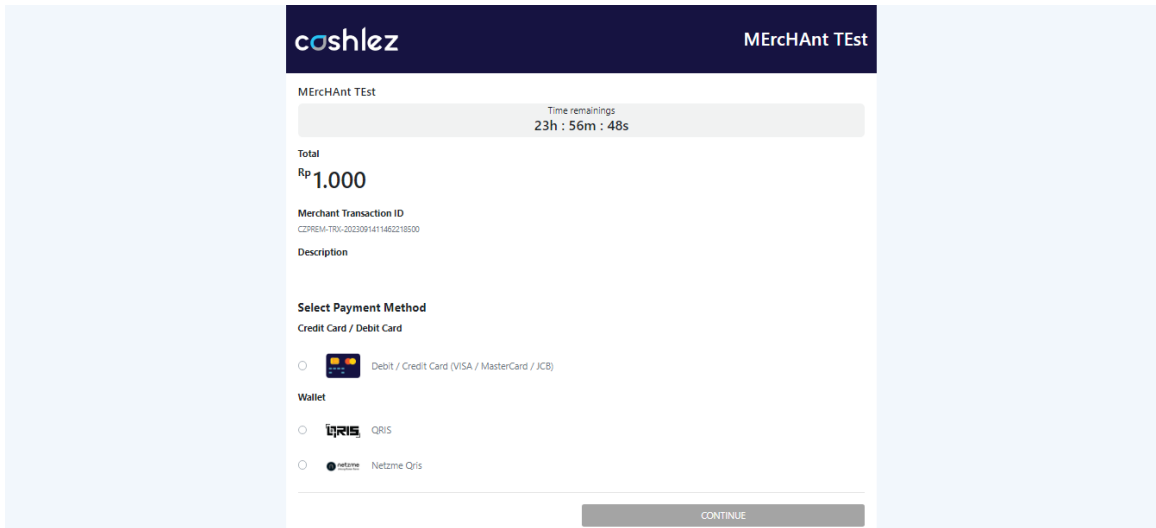
Generate URL Response Body:

Parameters	Data Type	Description
vendorIdentifier	String	Partner integration identifier
referenceId	String	Unique Transaction ID
transactionId	String	Transaction ID generated by Cashlez
generatedUrl	String	URL for the webpage for the transaction
expiredDate	Datetime	Expired timestamp for the transaction
timestamp	Datetime	Timestamp of the generated URL

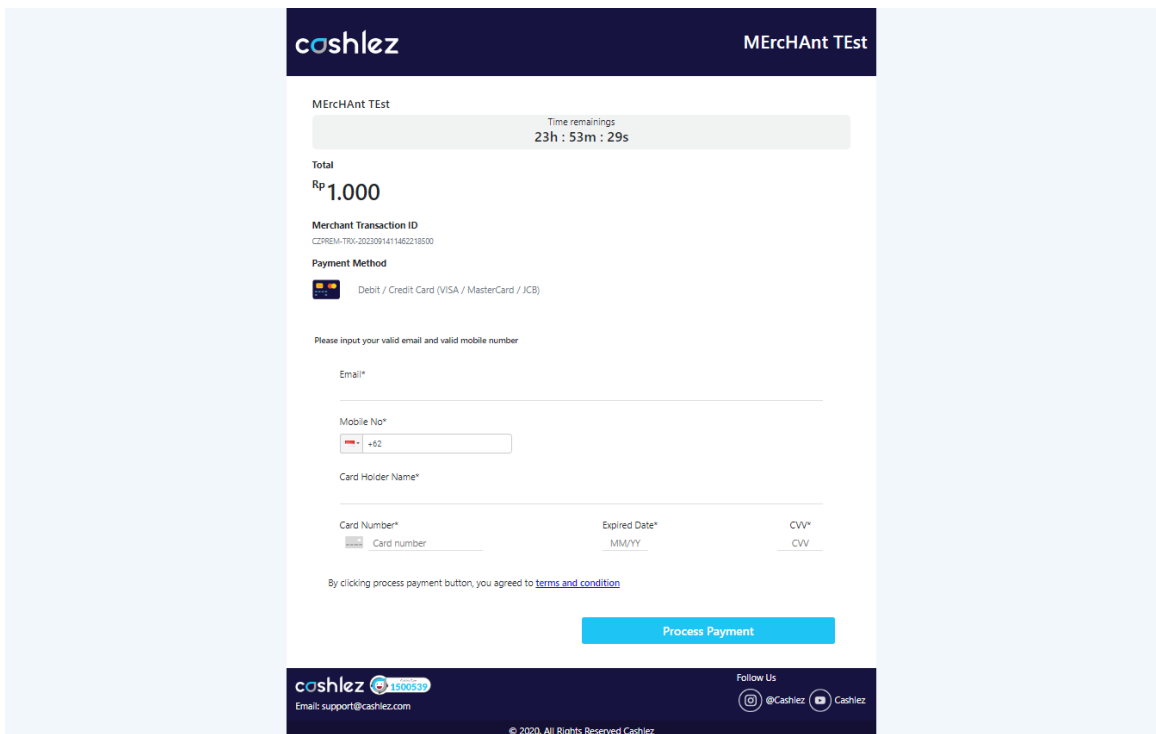
Generate URL Response example:

```
{
  "status": "01",
  "message": "Success",
  "timestamp": "2023-05-29T09:35:28.818+0000",
  "data": {
    "response": {
      "vendorIdentifier": "CZ00TEST001",
      "referenceId": "AF-009-CZ100024",
      "transactionId": "0160854",
      "generatedUrl":
"https://link.cashlez.com/czlink/GR23271AF-009-CZ100024",
      "expiredDate": "2023-05-29T10:35:28.664+0000",
      "timestamp": "2023-05-29T09:35:28.818+0000"
    }
  }
}
```

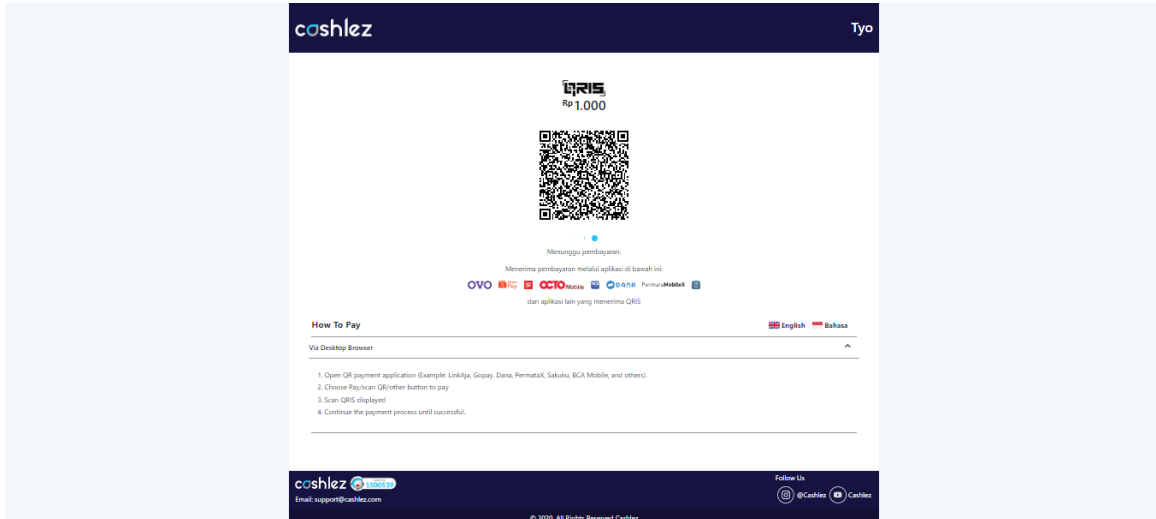
<the rest of this page is intentionally left blank>



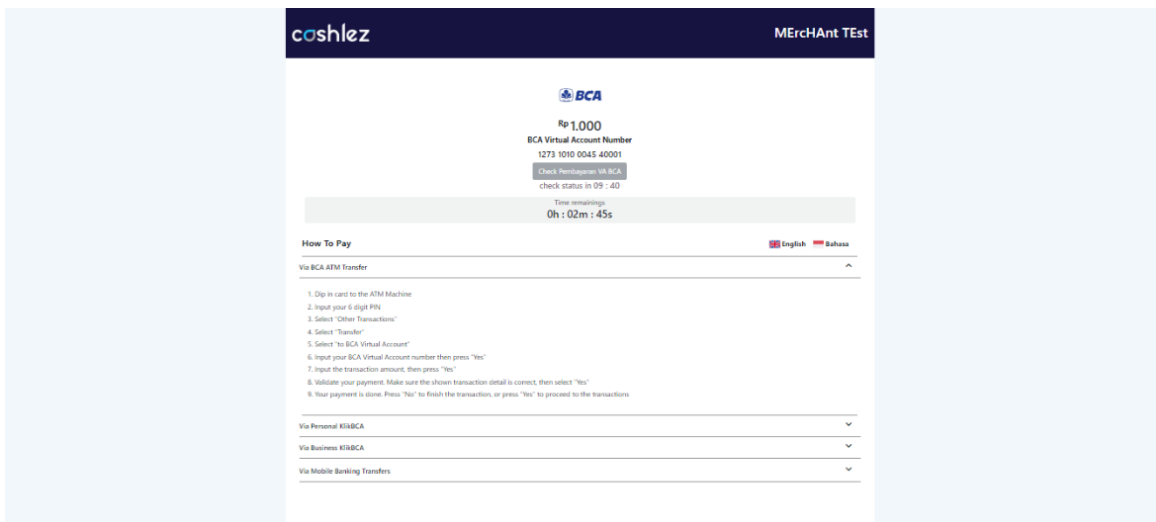
Picture 4: Payment URL opened in a browser



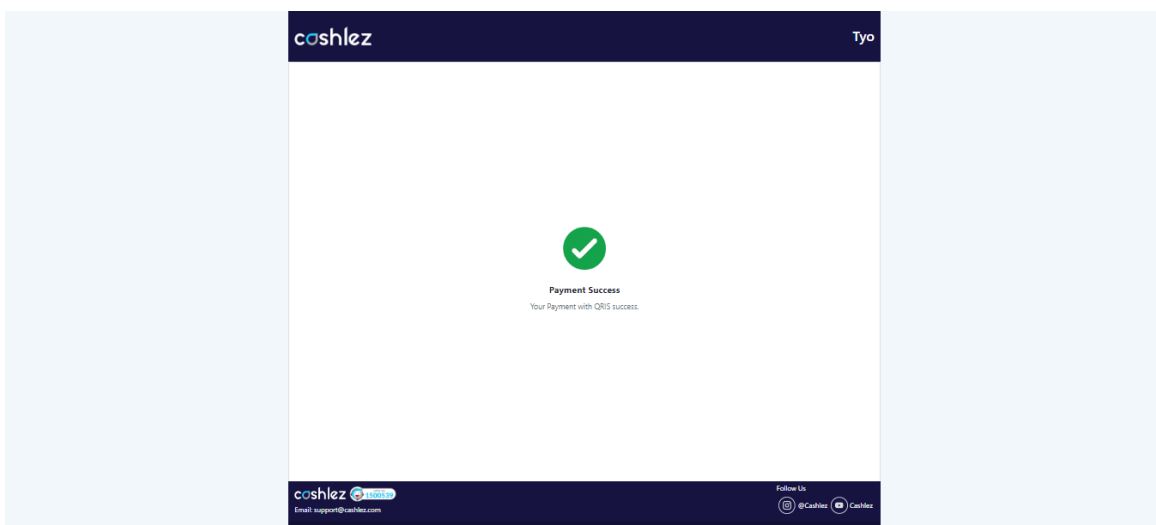
Picture 5: Card Payment selected as a payment method



Picture 6: QRIS selected as a payment method



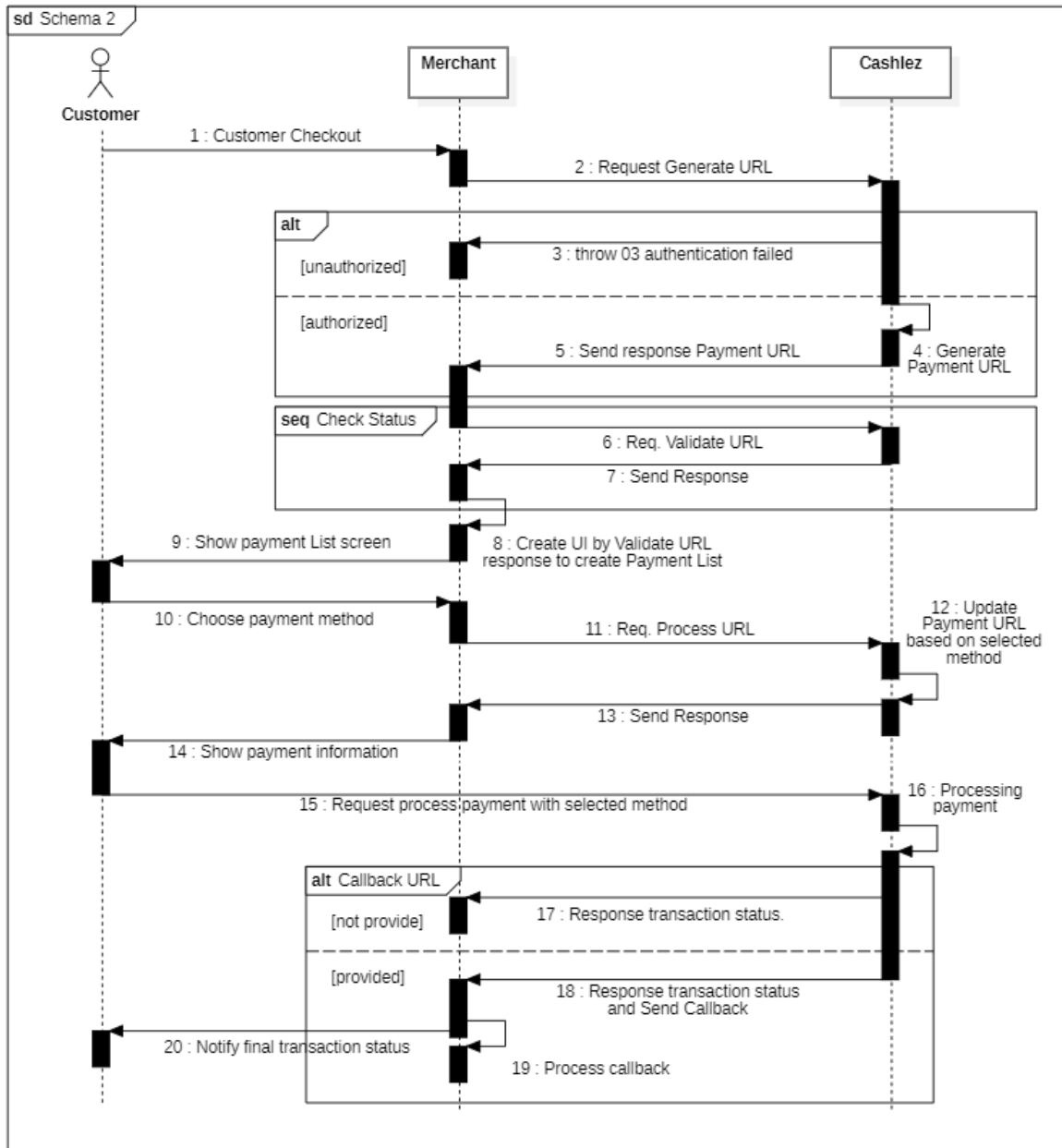
Picture 7: Virtual Account selected as a payment method



Picture 8: Success payment notification

5. Schema 2

Schema 2 explains the flow carried out by merchants during integration using the additional customize payment screen, by looking at the response from the Validate URL which will display the payment method that has been registered by the merchant at the first time registering as a Cashlez merchant.



Picture 9: Schema 2 Sequence Diagram

Note:

Generate URL need to hit before forwarding by hit Validate URL

A. Validate URL (Check Status)

This API is requested from Merchant to Cashlez for Check all possibilities payment method and also Check of transaction status by response from Generate URL.

Setting	Value
Method	POST
Host	{HOST}
Path	/validate_url

Validate URL request body:

Parameter	Required	Data Type	Description
data.request.generatedUrl	M	String	URL Payment

Validate URL example request:

```
{
  "data": {
    "request": {
      "generatedUrl":
      "https://link.cashlez.com/czlink/GR23271DEV-001-0000001"
    }
  }
}
```

Validate URL Response Body:

Parameters	Data Type	Description
status	String	Status code
message	String	Status message
timestamp	String	Timestamp of the validate url
amount	Double	Amount of transaction
callbackFailure	String	URL for failure payment redirect
callbackSuccess	String	URL for success payment redirect
checkLocation	Boolean	Validation check location
createdDate	Datetime	Transaction create date
currencyCode	String	Currency Code
description	String	Transaction description
entityId	String	Partner merchant id (provided by Cashlez)
expiredDate	Datetime	Expired timestamp for the transaction
generatedUrl	String	URL Payment result
id	Number	Transaction ID
merchantDescription	String	Transaction description by Merchant



merchantName	String	Merchant Name
paymentTypes.id	Number	ID of payment type
paymentTypes.code	String	Code of payment type
paymentTypes.name	String	Name of payment type
processStatus	String	Transaction process status.
referenceId	String	Reference Number Identifier
requestMessage	String	Message Request
status	String	Status of Transaction
transactionUsername	String	Transaction Username
vendor	Object	Merchant Info

Validate URL Response example:

```
{
  "status": "01",
  "message": "Success",
  "timestamp": "2023-01-30T07:36:12.476+0000",
  "data": {
    "response": {
      "amount": 75000.00,
      "callbackFailure": "",
      "callbackSuccess": "",
      "checkLocation": false,
      "createdDate": "2023-01-30T07:35:53.000+0000",
      "currencyCode": "IDR",
      "description": "Transaction From Cashlez",
      "entityId": "23271",
      "expiredDate": "2023-01-30T08:35:53.000+0000",
      "generatedUrl":
      "https://link.cashlez.com/czlink/GR23271AF-009-CZ100011",
      "id": 151776,
      "merchantDescription": "Jl. Letjen. S. Parman No.28",
      "merchantName": "Merchant 007",
      "paymentTypes": [
        {
          "id": 4,
          "code": "TCASH_QR_PAYMENT",
          "name": "TCASH_QR"
        }
      ],
      "processStatus": "CREATED",
      "referenceId": "AF-009-CZ100011",
      "requestMessage": "",
      "status": "VALID",
      "transactionUsername": "test01",
      "vendor": {
        "id": 4,
        "colorTheme": "#FFFFFF",
        "frontendUrl": "https://link.cashlez.com/czlink/",
        "callbackUrl": "",
        "vendorIdentifier": "CZ00TEST001",
```




```

    "entityId": "23271",
    "transactionUsername": "test01",
    "name": "Cashlez",
    "endpointId": "cashlezbri",
    "serverKeyId": "00000000000000000000000000000000",
    "urlExpiredTime": 60,
    "createdDate": "2022-08-23T02:55:09.000+0000",
    "active": true
  }
}
}
}

```

B. Process URL

This API is requested from Merchant to Cashlez for updating payment pages with specific methods that have been chosen by the customer.

Setting	Value
Method	POST
Host	{HOST}
Path	/process_url

Process URL request body:

Parameter	Required	Data Type	Description
vendorIdentifier	M	String	Partner integration identifier (provided by Cashlez)
entityId	M	String	Merchant id (provided by Cashlez)
referenceId	M	String	Transaction ID generated by merchant for this transaction
paymentType	M	Object	Payment Type from Validate URL Response
customerMobilePhone	O	String	Customer Phone
message	O	String	Message for transaction
customerLatitude	M	String	Customer Latitude
customerLongitude	M	String	Customer Longitude



Process URL example request:

```
{
  "data": {
    "request": {
      "vendorIdentifier": "CZ00TEST001",
      "entityId": "23271",
      "referenceId": "DEV-001-000001",
      "paymentType": {
        "id": 2,
        "code": "PERMATA_GENERATE_VACODE",
        "name": "PERMATA_VA"
      },
      "customerMobilePhone": "",
      "message": "",
      "customerLatitude": "-6.1675794999999995",
      "customerLongitude": "106.7824544"
    }
  }
}
```

Process URL Response Body:

Parameters	Data Type	Description
status	String	Status code
message	String	Status message
timestamp	Date	Datetime request
additionalInfo	String	Additional Info
amount	Double	Transaction amount
callbackFailure	String	URL for failed payment redirect
callbackSuccess	String	URL for success payment redirect
checkLocation	Boolean	Check location indicator
createdDate	Datetime	Transaction created date
currencyCode	String	Currency Code
customerLatitude	String	Customer Latitude location
customerLongitude	String	Customer Longitude location
customerMobilePhone	String	Customer Mobile Phone
description	String	Transaction description
entityId	String	Merchant ID (Provide by Cashlez)
expiredDate	String	URL payment expired Date
generatedUrl	String	Payment URL
id	String	Partner Integration identifier
merchantDescription	String	Merchant transaction description
merchantName	String	Merchant Name
paymentMessage	String	Message for payment
paymentType	Object	Payment type available for the transaction
paymentTypes	Array	List of Payment Type
processExpiredDate	Date	Valid date to process the payment



processStatus	String	Processing Status
referenceId	String	Transaction ID generated by merchant for this transaction
requestMessage	String	Message that is inputted during request url
status	String	Transaction status
transactionId	String	Transaction ID
transactionUsername	String	Merchant username
updatedAt	Date	Date updated
value	String	Value of Payment method. QRIS= QR String VA= Virtual Account Number
vendor	Object	Merchant Info

Process URL Response example:

```
{
  "status": "01",
  "message": "Success",
  "timestamp": "2023-01-30T07:36:56.413+0000",
  "data": {
    "response": {
      "additionalInfo": "",
      "amount": 75000.00,
      "callbackFailure": "",
      "callbackSuccess": "",
      "checkLocation": false,
      "createdDate": "2023-01-30T07:35:53.000+0000",
      "currencyCode": "IDR",
      "customerLatitude": "-6.16757949999999995",
      "customerLongitude": "106.7824544",
      "customerMobilePhone": "",
      "description": "Transaction From Cashlez",
      "entityId": "12345",
      "expiredDate": "2023-01-30T08:35:53.000+0000",
      "generatedUrl": "https://link.cashlez.com/czlink/DEV-001-000011",
      "id": 151776,
      "merchantDescription": "Jl. Letjen. S. Parman No.28",
      "merchantName": "Merchant 007",
      "paymentMessage": "",
      "paymentType": {
        "id": 2,
        "code": "PERMATA_GENERATE_VACODE",
```



```
        "name": "PERMATA_VA"
    },
    "paymentTypes": [
        {
            "id": 4,
            "code": "TCASH_QR_PAYMENT",
            "name": "TCASH_QR"
        }
    ],
    "processExpiredDate": "2023-01-30T08:36:56.000+0000",
    "processStatus": "PENDING",
    "referenceId": "DEV-001-00000011",
    "requestMessage": "",
    "status": "INVALID",
    "transactionId": "23271230130143656119",
    "transactionUsername": "dev01",
    "updatedAt": "2023-01-30T07:36:56.406+0000",
    "value": "7011010232710001",
    "vendor": {
        "id": 4,
        "colorTheme": "#FFFFFF",
        "frontendUrl": "https://link.cashlez.com/czlink/",
        "callbackUrl": "{YOUR_CALLBACK_URL}",
        "vendorIdentifier": "CZ00TEST001",
        "entityId": "23271",
        "transactionUsername": "test_dev",
        "name": "Cashlez",
        "endpointId": "cashlez_dev",
        "serverKeyId": "00000000000000000000000000000000",
        "urlExpiredTime": 60,
        "createdDate": "2022-08-23T02:55:09.000+0000",
        "active": true
    }
}
}
```

6. Callback

Cashlez Callbacks are transaction notifications sent by Cashlez to merchants via APIs that have been registered in the Cashlez system. There are two types of callbacks, first is URL Callback where Cashlez will hit the APIs to the merchant as a transaction status notification, then there is a Callback Screen which will become the direct web page when the transaction has been completed **(this type only applies to Scheme 1)**.

A. Callback URL

This API is requested from Cashlez to Merchant to notify the transaction status.

Setting	Value
Method	POST
Host	{YOUR_HOST}
Path	{YOUR_PATH}

Callback URL Request Body:

Parameter	Required	Data Type	Description
status	M	String	Status code
message	M	String	Status message
timestamp	M	Datetime	Transaction time (UTC time).
signature	M	String	Signature value
request.amount	M	Number	Transaction amount
request.callbackFailure	M	String	URL for failed payment redirect
request.callbackSuccess	M	String	URL for success payment redirect
request.checkLocation	M	Boolean	Location check info
request.createdDate	M	Datetime	Transaction date create
request.currencyCode	M	String	Currency Code
request.customerLatitude	M	String	Customer Latitude
request.customerLongitude	M	String	Customer Longitude
request.customerMobilePhone	M	String	Customer Mobile Phone
request.description	M	String	Transaction Description
request.entityId	M	String	Partner merchant id (Provided by Cashlez)
request.expiredDate	M	String	URL Payment valid date
request.generatedUrl	M	String	URL Payment
request.id	M	String	Partner Integration identifier
request.merchantDescription	M	String	Partner description
request.merchantName	M	String	Merchant Name
request.paymentMessage	M	String	Message for payment



request.paymentType	M	Object	Payment info
request.paymentTypes	M	Array	List of Payment info
request.processStatus	M	String	Payment process status
request.referenceId	M	String	Reference ID
request.requestMessage	M	String	Partner payment message
request.status	M	String	Payment status
request.transactionId	M	String	Transaction ID
request.transactionUsername	M	String	Merchant username to use
request.updatedDate	M	Datetime	Transaction updated date
request.value	M	String	Value of Payment method. QRIS= QR String VA= Virtual Account Number
request.vendor	M	Object	Partner information

Callback URL Request example:

```
{
  "status": "01",
  "message": "Success",
  "timestamp": "2020-12-02T09:24:48.921+0700",
  "signature": "{SIGNATURE_VALUE}",
  "data": {
    "request": {
      "amount": 100,
      "callbackFailure": "",
      "callbackSuccess": "",
      "checkLocation": true,
      "createdDate": "2020-12-02T09:24:06.000+0700",
      "currencyCode": "IDR",
      "customerLatitude": "-6.1758951",
      "customerLongitude": "106.7903188",
      "customerMobilePhone": "",
      "description": "Transaction from Cashlez",
      "entityId": "12234",
      "expiredDate": "2020-12-03T09:24:06.000+0700",
      "generatedUrl": "https://link.cashlez.com/czlink/3TEST-009-001",
      "id": 12220,
      "merchantDescription": "Jl. Letjen. S. Parman No.28",
      "merchantName": "Merchant Name",
      "paymentMessage": "",
      "paymentType": {
```



```
        "id": 5,
        "code": "SHOPEEPAY_QR_PAYMENT",
        "name": "SHOPEEPAY_ONLINE"
    },
    "paymentTypes": [
        {
            "id": 5,
            "code": "SHOPEEPAY_QR_PAYMENT",
            "name": "SHOPEEPAY_ONLINE"
        }
    ],
    "processStatus": "APPROVED",
    "referenceId": "TEST-001-001",
    "requestMessage": "",
    "status": "INVALID",
    "transactionId": "212314232323221237",
    "transactionResponse":
    "CZAUTHRESULT=ResponseCode%7C0%7CRetrievalReferenceNumber%7499",
    "transactionUsername": "test0001",
    "updatedAt": "2020-12-02T09:24:48.911+0700",
    "value":
    "00020101021226590016ID.CO.SHOPEE.WWW01189362291800003138290206313
    8290303UKE51440014ID.CO.QRIS.WWW0215ID10200401589140303UKE52045411
    53033605406100 .005802ID5920 Dummy6015KOTA
    JAKARTA61051147069242407763049975",
    "vendor": {
        "id": 6,
        "colorTheme": "#FFFFFF",
        "frontendUrl": "https://link.cashlez.com/czlink/",
        "callbackUrl": "{YOUR_CALLBACK_URL}",
        "vendorIdentifier": "CZ00TEST001",
        "entityId": "23273",
        "transactionUsername": "test03",
        "name": "Cashlez",
        "endpointId": "",
        "serverKeyId": "",
        "urlExpiredTime": 1440,
        "createdDate": "2020-12-02T09:23:04.000+0700",
        "active": true
    }
}
}
```

Callback URL Response

Expected response for callback is **HTTP Status: 200 OK**

B. Callback Screen URL

Callback screen URL used for direct page after payment success or failure from Cashlez, put the value on **Generate URL** request body, once payment complete, Cashlez will automatically direct to your web page.

data.request.callbackSuccess	{YOUR_SUCCESS_DIRECT_URL}
data.request.callbackFailure	{YOUR_FAILURE_DIRECT_URL}

7. List of Payment Types

Id	Code	Name
1	ECOMM	ECOMM
2	PERMATA_GENERATE_VACODE	PERMATA_VA
3	OVO_PUSH_TO_PAY	OVO
5	SHOPEEPAY_QR_PAYMENT	SHOPEEPAY_ONLINE
6	SHOPEEPAY_DEEPLINK_PAYMENT	SHOPEEPAY_DEEPLINK
7	BCA_GENERATE_VACODE	VA_BCA
10	NOBU_QR_DYNAMIC_GENERATE_QR	NOBU_QR_DYNAMIC

8. Payment Capabilities by Schema

Payment Type	Schema 1	Schema 2
ECOMM	Available	Not Available
PERMATA_GENERATE_VACODE	Available	Available
OVO_PUSH_TO_PAY	Available	Available
SHOPEEPAY_QR_PAYMENT	Available	Available
SHOPEEPAY_DEEPLINK_PAYMENT	Available	Available
BCA_GENERATE_VACODE	Available	Available
NOBU_QR_DYNAMIC_GENERATE_QR	Available	Available

9. APIs Integrate by Schema

APIs	Schema 1	Schema 2
Generate URL	Required	Required
Validate URL	Optional	Required
Process URL	No Action	Required

10. List of Status

Status	Description
VALID	URL Link hasn't been used for payment
INVALID	URL Link has been used for payment

11. List of Process Status

Status	Description
CREATED	URL generated successfully
PENDING	Payment is waiting to paid process
APPROVED	Payment Success
REJECTED	Payment Failed
EXPIRED	Payment Link is expired

12. List of Status & Process Status Combination

Process Status	Status	Description
CREATED	VALID	URL Link can be used
PENDING	VALID	Not Possible
APPROVED	VALID	Not Possible
REJECTED	VALID	Not Possible
CREATED	INVALID	Not Possible
PENDING	INVALID	Payment is waiting to paid process
APPROVED	INVALID	Payment Success
REJECTED	INVALID	Payment Failed
EXPIRED	INVALID	URL Link is expired