API APPLICATION

Documentation of API for Online Shop

Contents

Document Information

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Revision History

Revision	Date	Author(s)	Description
1.0	October 18, 2021	Aji Perdana Putra	Initialization of document

Preliminary

This document serves as a guide for *Java Programming Language* developer to build the application on **ONLINE SHOP**. As standard coding, this document is supposed to solve these challenges:

- A change of a team, both from structure and people.
- Project requirements that change frequently**.**
- Meet the purpose of Agile Development.
- Well package and clean source code.

Rest Model

Client make standard HTTP request over an SSL or plain channel. The API communication endpoint is http://ip[:port]/api. This base endpoint *url* will be mentioned as [api_endpoint].

Client make request against API resources using following url format [api_endpoint]/[service-name]/[operation-name].

User Service

Authenticate

This service is used to authenticate user.

- URL
  [api_endpoint]/user/authenticate

- Request Payload

Field	Data Type	Description
username	String	User name
password	String	Password

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English
responseDescId	String	Response Description in Bahasa
data	String	Token

Register

This service is used to authenticate user.

- URL
  [api_endpoint]/user/register

- Request Payload

Field	Data Type	Description
username	String	User name
password	String	Password
email	String	Email

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English
responseDescId	String	Response Description in Bahasa

Product Service

Product Category List

This service is used to get list of product category.

- URL
  [api_endpoint]/product/category/list

- Request Payload
  This service does not need any payload.

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English
responseDescId	String	Response Description in Bahasa
data	List of Product Category object	Product Category object

Product List

This service is used to get list of product.

- URL
  [api_endpoint]/product/list

- Request Payload

Field	Data Type	Mandatory	Description
categoryId	Integer	O	If this field has null value, system will return all of Product

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English
responseDescId	String	Response Description in Bahasa
data	List of Product object	Product object

Product Get

This service is used to get product.

- URL
  [api_endpoint]/product/get

- Request Payload

Field	Data Type	Mandatory	Description
productId	Integer	Y	Product Id

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English
responseDescId	String	Response Description in Bahasa
data	Product object	Product object

Transaction Service

Submit Transaction

This service is used to submit transaction.

- URL
  [api_endpoint]/transaction/submit

- Request Payload

Field	Data Type	Mandatory	Description
listTransactionDetails	List of Transaction Detail Submit object	Y	Transaction Detail Submit object
totalAmount	String	Y	Total amount
paymentMethod	String	Y	See appendix Payment method
ccDetail	Credit Card object	C	Applicable if paymentMethod = 'CC' , Credit Card object

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English
responseDescId	String	Response Description in Bahasa
data	Transaction object	Transaction object

Transaction List

This service is used to get transaction list base on user.

- URL
  [api_endpoint]/transaction/list

- Request Payload
  This service does not need any payload.

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English

Field	Data Type	Description
responseDescId	String	Response Description in Bahasa
data	List of Transaction object	Transaction object

Transaction Get

This service is used to get transaction.

- URL

  [api_endpoint]/transaction/get

- Request Payload

Field	Data Type	Mandatory	Description
transactionId	String	Y	Transaction Id

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English
responseDescId	String	Response Description in Bahasa
data	Transaction object	See appendix Transaction

Transaction Detail Get

This service is used to get transaction detail.

- URL

  [api_endpoint]/transaction/get-detail

- Request Payload

Field	Data Type	Mandatory	Description
transactionId	String (20)	Y	Transaction Id

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English
responseDescId	String	Response Description in Bahasa
data	Transaction Detail object	Transaction Detail object

Payment Method List

This service is used to get list of payment method.

- URL
  [api_endpoint]/transaction/payment-method/list

- Request Payload
  This service does not need any payload.

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English
responseDescId	String	Response Description in Bahasa
data	List of Payment Method object	See appendix Payment Method

VA Callback (Inbound Service)

This service is used to update status payment from Virtual Account, this service will be consumed by Bank (Partner).

- URL
  [api_endpoint]/transaction/va/callback

- Request Payload

Field	Data Type	Mandatory	Description
transactionId	String	Y	Transaction Id
status	String	Y	Status Payment

- Response (Data)

Field	Data Type	Description
responseCode	String	Response Code
responseDescEn	String	Response Description in English
responseDescId	String	Response Description in Bahasa

Object

Product Category

Field	Data Type	Description
id	Integer	Category Id
name	String	Category name

Product

Field	Data Type	Description
id	Integer	Product Id
name	String	Product name
description	String	Product description
price	BigDecimal	Product price
image	String (Base64)	Product image
categoryId	Integer	Category Id

Transaction

Field	Data Type	Description
id	String	Transaction Id
userId	String	User Id
totalAmount	BigDecimal	Transaction total amount
paymentMethod	String	Payment Method
status	String	Transaction status
transactionDate	Date	Category Id
listTransactionDetails	List of Transaction Detail object	Transaction Detail list

Transaction Detail

Field	Data Type	Description
id	String	Transaction Detail Id
transactionId	String	Transaction Id
name	String	Product name
quantity	Integer	Quantity
price	BigDecimal	Product price

Payment Method

Field	Data Type	Description
id	String	Payment method id
name	String	Payment method name

Transaction Detail Submit

Field	Data Type	Description
name	String	Product name
quantity	Integer	Quantity
price	BigDecimal	Product price

Credit Card

Field	Data Type	Description
ccNo	String	Credit card number
ccName	String	Credit card name
ccExpired	String	Credit card expired (MM/yyyy)
ccCvv	String	Credit card cvv

Appendix

Transaction Status

Code	Description
S	Success
F	Failed
P	Pending