

OAS로 API 설계

는 OpenAPI Specification의 약자로, "OpenAPI 명세서" 의미

OpenAPI 또는 OAS(OpenAPI Specification)로 불리며, RESTful API를 정해진 표준 규칙에 따라 API Spec을 json 혹은 yaml 로 표현하는 방식, 즉 "Restful API 디자인의 정의 방법의 표준"

예

API 설계 예제 YAML

```
openapi: 3.0.3
info:
  title: Sample Ecommerce App
  description: >
    'This is a ***sample ecommerce app API***. You can find out more about Swagger
    at [swagger.io](http://swagger.io).
    Description supports markdown markup. For example, you can use the `inline
    code` using back ticks.'
  termsOfService: https://github.com/PacktPublishing/Modern-API-Development-with-
  Spring-6-and-Spring-Boot-3/blob/main/LICENSE
  contact:
    name: Packt Support
    url: https://www.packt.com
    email: support@packtpub.com
  license:
    name: MIT
    url: https://github.com/PacktPublishing/Modern-API-Development-with-Spring-6-
    and-Spring-Boot-3/blob/main/LICENSE
  version: 1.0.0
externalDocs:
  description: Any document link you want to generate along with API.
  url: http://swagger.io
servers:
  - url: https://ecommerce.swagger.io/v2
tags:
  - name: cart
    description: Everything about cart
    externalDocs:
      description: Find out more (extra document link)
      url: http://swagger.io
  - name: order
    description: Operation about orders
  - name: user
    description: Operations about users
  - name: customer
    description: Operations about user's persona customer
```

- name: address
description: Operations about user's address
- name: payment
description: Operations about payments
- name: shipping
description: Operations about shippings
- name: product
description: Operations about products
- name: card
description: card operation

paths:

/api/v1/carts/{customerId}:

get:

tags:

- cart

summary: Returns the shopping cart

description: Returns the shopping cart of given customer

operationId: getCartByCustomerId

parameters:

- name: customerId

in: path

description: Customer Identifier

required: true

schema:

type: string

responses:

200:

description: successful operation

content:

application/xml:

schema:

type: array

items:

\$ref: '#/components/schemas/Cart'

application/json:

schema:

type: array

items:

\$ref: '#/components/schemas/Cart'

404:

description: Given customer ID doesn't exist

content: {}

delete:

tags:

- cart

summary: Delete the shopping cart

description: Deletes the shopping cart of given customer

operationId: deleteCart

parameters:

```

- name: customerId
  in: path
  description: Customer Identifier
  required: true
  schema:
    type: string
responses:
  204:
    description: successful operation
  404:
    description: Given customer ID doesn't exist
    content: {}
/api/v1/carts/{customerId}/items:
get:
  tags:
    - cart
  summary: Returns the list of products in user's shopping cart
  description: Returns the items in shopping cart of given customer
  operationId: getCartItemsByCustomerId
  parameters:
    - name: customerId
      in: path
      description: Customer Identifier
      required: true
      schema:
        type: string
  responses:
    200:
      description: successful operation
      content:
        application/xml:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/Item'
        application/json:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/Item'
    404:
      description: Given customer ID doesn't exist
      content: {}
post:
  tags:
    - cart
  summary: Adds an item in shopping cart
  description: Adds an item to the shopping cart if it doesn't already exist,
or increment quantity by the specified number of items if it does.
  operationId: addCartItemsByCustomerId

```

```
parameters:
  - name: customerId
    in: path
    description: Customer Identifier
    required: true
    schema:
      type: string
requestBody:
  description: Item object
  content:
    application/xml:
      schema:
        $ref: '#/components/schemas/Item'
    application/json:
      schema:
        $ref: '#/components/schemas/Item'
responses:
  201:
    description: Item added successfully
    content:
      application/xml:
        schema:
          type: array
          items:
            $ref: '#/components/schemas/Item'
      application/json:
        schema:
          type: array
          items:
            $ref: '#/components/schemas/Item'
  404:
    description: Given customer ID doesn't exist
    content: {}
put:
  tags:
    - cart
  summary: Replace/add an item in shopping cart
  description: Adds an item to the shopping cart if it doesn't already exist,
or replace with given item if it does.
  operationId: addOrReplaceItemsByCustomerId
  parameters:
    - name: customerId
      in: path
      description: Customer Identifier
      required: true
      schema:
        type: string
  requestBody:
    description: Item object
    content:
```

```
    application/xml:
      schema:
        $ref: '#/components/schemas/Item'
    application/json:
      schema:
        $ref: '#/components/schemas/Item'
  responses:
    201:
      description: Item added successfully
      content:
        application/xml:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/Item'
        application/json:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/Item'
    404:
      description: Given customer ID doesn't exist
      content: {}
/api/v1/carts/{customerId}/items/{itemId}:
  get:
    tags:
      - cart
    summary: Returns given item from user's shopping cart
    description: Returns given item from shopping cart of given customer
    operationId: getCartItemsById
    parameters:
      - name: customerId
        in: path
        description: Customer Identifier
        required: true
        schema:
          type: string
      - name: itemId
        in: path
        description: Item (product) Identifier
        required: true
        schema:
          type: string
    responses:
      200:
        description: If item exists in cart
        content:
          application/xml:
            schema:
              type: array
```

```
        items:
          $ref: '#/components/schemas/Item'
application/json:
  schema:
    type: array
    items:
      $ref: '#/components/schemas/Item'
404:
  description: Given item (product) ID doesn't exist
  content: {}
delete:
  tags:
    - cart
  summary: Delete the item from shopping cart
  description: Deletes the item from shopping cart of given customer
  operationId: deleteItemFromCart
  parameters:
    - name: customerId
      in: path
      description: Customer Identifier
      required: true
      schema:
        type: string
    - name: itemId
      in: path
      description: Item (product) Identifier
      required: true
      schema:
        type: string
  responses:
    202:
      description: Accepts the request, regardless of whether the specified
item exists in the cart or not.
/api/v1/orders:
  post:
    tags:
      - order
    summary: Creates a new order for the given order request
    description: Creates a new order for the given order request.
    operationId: addOrder
    requestBody:
      description: New Order Request object
      content:
        application/xml:
          schema:
            $ref: '#/components/schemas/NewOrder'
        application/json:
          schema:
            $ref: '#/components/schemas/NewOrder'
    responses:
```

```
201:
  description: Order added successfully
  content:
    application/xml:
      schema:
        type: array
        items:
          $ref: '#/components/schemas/Order'
    application/json:
      schema:
        type: array
        items:
          $ref: '#/components/schemas/Order'
406:
  description: If payment is not authorized.
  content: {}
get:
  tags:
    - order
  summary: Returns the orders of given user
  description: Returns orders of given user
  operationId: getOrdersByCustomerId
  parameters:
    - name: customerId
      in: query
      description: Customer Identifier
      required: true
      schema:
        type: string
  responses:
    200:
      description: If order exists.
      content:
        application/xml:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/Order'
        application/json:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/Order'
    404:
      description: Order doesn't exist for given user.
      content: {}
/api/v1/orders/{id}:
get:
  tags:
    - order
```

```
summary: Returns the order of given order ID
description: Returns orders of given order ID
operationId: getOrdersByOrderId
parameters:
  - name: id
    in: path
    description: Order Identifier
    required: true
    schema:
      type: string
responses:
  200:
    description: If order exists.
    content:
      application/xml:
        schema:
          $ref: '#/components/schemas/Order'
      application/json:
        schema:
          $ref: '#/components/schemas/Order'
  404:
    description: Order doesn't exist for given user.
    content: {}
/api/v1/customers:
get:
  tags:
    - customer
  summary: Returns all customers
  description: Returns all customers, or empty collection if no use found
  operationId: getAllCustomers
  responses:
    200:
      description: For successful fetch.
      content:
        application/xml:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/User'
        application/json:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/User'
/api/v1/customers/{id}:
get:
  tags:
    - customer
  summary: Returns a customer
  description: Returns a customers identifiable by given ID
```

```
operationId: getCustomerById
parameters:
  - name: id
    in: path
    description: Customer Identifier
    required: true
    schema:
      type: string
responses:
  200:
    description: For successful fetch.
    content:
      application/xml:
        schema:
          $ref: '#/components/schemas/User'
      application/json:
        schema:
          $ref: '#/components/schemas/User'
delete:
  tags:
    - customer
  summary: Deletes the customer
  description: Deletes the customer identifiable by given ID
  operationId: deleteCustomerById
  parameters:
    - name: id
      in: path
      description: Customer Identifier
      required: true
      schema:
        type: string
  responses:
    202:
      description: Request accepted, returns this status even if user does not
      exist
      content: {}
/api/v1/customers/{id}/cards:
get:
  tags:
    - customer
  summary: Returns all customer's cards
  description: Returns all customer's cards based on given customer ID
  operationId: getCardsByCustomerId
  parameters:
    - name: id
      in: path
      description: Customer Identifier
      required: true
      schema:
        type: string
```

```
responses:
  200:
    description: For successful fetch.
    content:
      application/xml:
        schema:
          $ref: '#/components/schemas/Card'
      application/json:
        schema:
          $ref: '#/components/schemas/Card'
/api/v1/customers/{id}/addresses:
  get:
    tags:
      - customer
    summary: Returns all customer's addresses
    description: Returns all customer's addresses based on given customer ID
    operationId: getAddressesByCustomerId
    parameters:
      - name: id
        in: path
        description: Customer Identifier
        required: true
        schema:
          type: string
    responses:
      200:
        description: For successful fetch.
        content:
          application/xml:
            schema:
              $ref: '#/components/schemas/Address'
          application/json:
            schema:
              $ref: '#/components/schemas/Address'
/api/v1/addresses:
  get:
    tags:
      - address
    summary: Returns all user's addresses
    description: Returns all user's addresses, else empty collection
    operationId: getAllAddresses
    responses:
      200:
        description: For successful fetch.
        content:
          application/xml:
            schema:
              type: array
              items:
                $ref: '#/components/schemas/Address'
```

```
        application/json:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/Address'
post:
  tags:
    - address
  summary: Creates a new user addresses
  description: Creates a new user addresses. Does nothing if address already
exists.
  operationId: createAddress
  requestBody:
    content:
      application/xml:
        schema:
          $ref: '#/components/schemas/AddAddressReq'
      application/json:
        schema:
          $ref: '#/components/schemas/AddAddressReq'
  responses:
    200:
      description: For successful fetch.
      content:
        application/xml:
          schema:
            $ref: '#/components/schemas/Address'
        application/json:
          schema:
            $ref: '#/components/schemas/Address'
/api/v1/addresses/{id}:
  get:
    tags:
      - address
    summary: Returns user's address
    description: Returns user's address based on given address ID.
    operationId: getAddressesById
    parameters:
      - name: id
        in: path
        description: address Identifier
        required: true
        schema:
          type: string
    responses:
      200:
        description: For successful fetch.
        content:
          application/xml:
            schema:
```

```
        $ref: '#/components/schemas/Address'
    application/json:
        schema:
            $ref: '#/components/schemas/Address'
delete:
    tags:
        - address
    summary: Deletes user's address
    description: Deletes user's address based on given address ID.
    operationId: deleteAddressesById
    parameters:
        - name: id
          in: path
          description: address Identifier
          required: true
          schema:
              type: string
    responses:
        202:
            description: Accepts the deletion request and perform deletion. If ID
does not exist, does nothing.
            content: {}
/api/v1/cards:
get:
    tags:
        - card
    summary: Returns all user's cards
    description: Returns all user's cards, else empty collection
    operationId: getAllCards
    responses:
        200:
            description: For successful fetch.
            content:
                application/xml:
                    schema:
                        type: array
                        items:
                            $ref: '#/components/schemas/Card'
                application/json:
                    schema:
                        type: array
                        items:
                            $ref: '#/components/schemas/Card'
post:
    tags:
        - card
    summary: Creates a new card
    description: Creates a new card. or replaces the existing one
    operationId: registerCard
    requestBody:
```

```
    content:
      application/xml:
        schema:
          $ref: '#/components/schemas/AddCardReq'
      application/json:
        schema:
          $ref: '#/components/schemas/AddCardReq'
  responses:
    200:
      description: For successful fetch.
      content:
        application/xml:
          schema:
            $ref: '#/components/schemas/Card'
        application/json:
          schema:
            $ref: '#/components/schemas/Card'
/api/v1/cards/{id}:
  get:
    tags:
      - card
    summary: Returns user's card
    description: Returns user's card based on given card ID.
    operationId: getCardById
    parameters:
      - name: id
        in: path
        description: card Identifier
        required: true
        schema:
          type: string
    responses:
      200:
        description: For successful fetch.
        content:
          application/xml:
            schema:
              $ref: '#/components/schemas/Card'
          application/json:
            schema:
              $ref: '#/components/schemas/Card'
  delete:
    tags:
      - card
    summary: Deletes card's address
    description: Deletes card's address based on given card ID.
    operationId: deleteCardById
    parameters:
      - name: id
        in: path
```

```
    description: card Identifier
    required: true
    schema:
      type: string
  responses:
    202:
      description: Accepts the deletion request and perform deletion. If ID
does not exist, does nothing.
      content: {}
/api/v1/payments:
  post:
    tags:
      - payment
    summary: Authorize a payment request
    description: Authorize a payment request.
    operationId: authorize
    requestBody:
      content:
        application/xml:
          schema:
            $ref: '#/components/schemas/PaymentReq'
        application/json:
          schema:
            $ref: '#/components/schemas/PaymentReq'
    responses:
      200:
        description: For successful fetch.
        content:
          application/xml:
            schema:
              $ref: '#/components/schemas/Authorization'
          application/json:
            schema:
              $ref: '#/components/schemas/Authorization'
  get:
    tags:
      - payment
    summary: Returns the payment authorization
    description: Return the payment authorization for the specified order
    operationId: getOrdersPaymentAuthorization
    parameters:
      - name: id
        in: query
        description: Order Identifier
        required: true
        schema:
          type: string
    responses:
      200:
        description: For successful fetch.
```

```
    content:
      application/xml:
        schema:
          type: array
          items:
            $ref: '#/components/schemas/Authorization'
      application/json:
        schema:
          type: array
          items:
            $ref: '#/components/schemas/Authorization'
/api/v1/shipping:
  post:
    tags:
      - shipping
    summary: Ship the specified shipping request
    description: Ship the specified shipping request
    operationId: shipOrder
    requestBody:
      content:
        application/xml:
          schema:
            $ref: '#/components/schemas/ShippingReq'
        application/json:
          schema:
            $ref: '#/components/schemas/ShippingReq'
    responses:
      200:
        description: For successful fetch.
        content:
          application/xml:
            schema:
              $ref: '#/components/schemas/Authorization'
          application/json:
            schema:
              $ref: '#/components/schemas/Authorization'
  get:
    tags:
      - shipping
    summary: Return the Shipment
    description: Return the Shipment for the specified order
    operationId: getShipmentByOrderId
    parameters:
      - name: id
        in: query
        description: Order Identifier
        required: true
        schema:
          type: string
    responses:
```

```
200:
  description: For successful fetch.
  content:
    application/xml:
      schema:
        type: array
        items:
          $ref: '#/components/schemas/Shipment'
    application/json:
      schema:
        type: array
        items:
          $ref: '#/components/schemas/Shipment'
/api/v1/products:
  get:
    tags:
      - product
    summary: Returns all the matched products
    description: Returns the products that matches the given query criteria
    operationId: queryProducts
    parameters:
      - name: tag
        in: query
        description: Product tag
        required: false
        schema:
          type: string
      - name: name
        in: query
        description: Product name
        required: false
        schema:
          type: string
      - name: page
        in: query
        description: Query page number
        required: false
        schema:
          type: integer
          format: int32
          default: 1
      - name: size
        in: query
        description: Query page size
        required: false
        schema:
          type: integer
          format: int32
          default: 10
    responses:
```

```
    200:
      description: For successful fetch.
      content:
        application/xml:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/Product'
        application/json:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/Product'
  /api/v1/products/{id}:
    get:
      tags:
        - product
      summary: Returns a product
      description: Returns the product that matches the given product ID
      operationId: getProduct
      parameters:
        - name: id
          in: path
          description: Product Identifier
          required: true
          schema:
            type: string
      responses:
        200:
          description: For successful fetch.
          content:
            application/xml:
              schema:
                $ref: '#/components/schemas/Product'
            application/json:
              schema:
                $ref: '#/components/schemas/Product'
  components:
    schemas:
      Cart:
        description: Shopping Cart of the user
        type: object
        properties:
          customerId:
            description: Id of the customer who possesses the cart
            type: string
          items:
            description: Collection of items in cart.
            type: array
            items:
```

```
    $ref: '#/components/schemas/Item'
Item:
  description: Items in shopping cart
  type: object
  properties:
    id:
      description: Item Identifier
      type: string
    quantity:
      description: The item quantity
      type: integer
      format: int32
    unitPrice:
      description: The item's price per unit
      type: number
      format: double
Order:
  description: Represents an order
  type: object
  properties:
    id:
      description: Order identifier
      type: string
    customer:
      $ref: '#/components/schemas/User'
    address:
      $ref: '#/components/schemas/Address'
    card:
      $ref: '#/components/schemas/Card'
    date:
      description: Order's data and time details
      type: string
      format: date-time
    items:
      description: Collection of order items.
      type: array
      items:
        $ref: '#/components/schemas/Item'
    total:
      description: Order total
      type: number
      format: double
    payment:
      $ref: '#/components/schemas/Payment'
    shipment:
      $ref: '#/components/schemas/Shipment'
    status:
      description: Order Status
      type: string
      enum:
```

```
    - CREATED
    - PAID
    - SHIPPED
    - PAYMENT_FAILED
    - SHIPMENT_FAILED
    - COMPLETED
xml:
  name: Order
AddAddressReq:
  allOf:
    - $ref: '#/components/schemas/Address'
    - type: object
    properties:
      userId:
        type: string

xml:
  name: AddAddressReq
Address:
  type: object
  properties:
    number:
      description: house of flat number
      type: string
    residency:
      description: Society or building name
      type: string
    street:
      description: street name
      type: string
    city:
      description: city name
      type: string
    state:
      description: state name
      type: string
    country:
      description: country name
      type: string
    pincode:
      description: postal code
      type: string
xml:
  name: Address
Card:
  type: object
  properties:
    cardNumber:
      description: Card Number
      type: string
```

```
    expires:
      description: Expiration date
      type: string
    ccv:
      description: CCV code
      type: string
  xml:
    name: Card
AddCardReq:
  description: Request object for new card registration.
  allOf:
    - $ref: '#/components/schemas/Card'
    - type: object
      properties:
        userId:
          type: object
  xml:
    name: AddCardReq
Payment:
  type: object
  properties:
    authorized:
      description: Flag that specified whether payment is authorized or not
      type: boolean
    message:
      description: Approval or rejection message
      type: string
  xml:
    name: Payment
Shipment:
  type: object
  properties:
    orderId:
      description: Order Identifier
      type: string
    carrier:
      description: Shipping Carrier
      type: string
    trackingNumber:
      description: Shipping Tracking Number
      type: string
    estDeliveryDate:
      description: Estimated Delivery Date
      type: string
      format: date
  xml:
    name: Shipment
ShippingReq:
  description: Contains information required for Shipping request
  type: object
```

```
properties:
  orderId:
    description: Order Identifier
    type: string
  address:
    $ref: '#/components/schemas/Address'
  itemCount:
    description: The number of items in the order
    type: integer
    format: int32
xml:
  name: ShippingReq

User:
  type: object
  properties:
    id:
      type: integer
      format: int64
    username:
      type: string
    firstName:
      type: string
    lastName:
      type: string
    email:
      type: string
    password:
      type: string
    phone:
      type: string
    userStatus:
      type: integer
      description: User Status
      format: int32
xml:
  name: User

NewOrder:
  description: Contains the new order request information
  type: object
  properties:
    customer:
      #description: URI that should be used to fetch the customer
      $ref: '#/components/schemas/URI'
    address:
      #description: URI that should be used to fetch the address
      $ref: '#/components/schemas/URI'
    card:
      #description: URI that should be used to fetch the payment card
      $ref: '#/components/schemas/URI'
```

```
    items:
      #description: URI that should be used to fetch the items from shopping
cart
      $ref: '#/components/schemas/URI'
    xml:
      name: NewOrder
  URI:
    type: object
    xml:
      name: URI
  Authorization:
    type: object
    properties:
      orderId:
        description: Order Identification
        type: string
      time:
        description: Timestamp when this authorization was created
        type: string
        format: date-time
      authorized:
        description: Flat that specify whether the payment is authorized
        type: boolean
      message:
        description: Approavl or rejection message
        type: string
      error:
        description: Processing error description, if any
        type: string
    xml:
      name: Authorization
  PaymentReq:
    description: Contains the payment request information
    type: object
    properties:
      orderId:
        description: Order Identifier
        type: string
      customer:
        $ref: '#/components/schemas/CustomerInfoOnCard'
      address:
        $ref: '#/components/schemas/Address'
      card:
        $ref: '#/components/schemas/Card'
      amount:
        description: Payment amount
        type: number
        format: double
    xml:
      name: PaymentReq
```

```
CustomerInfoOnCard:
  description: Customer information required for payment processing
  type: object
  properties:
    firstName:
      description: Customer first name
      type: string
    lastName:
      description: Customer last name
      type: string
  xml:
    name: CustomerInfoOnCard
Product:
  description: Product information
  type: object
  properties:
    id:
      description: Product identifier
      type: string
    name:
      description: Product Name
      type: string
    description:
      description: Product's description
      type: string
    imageUrl:
      description: Product image's URL
      type: string
    price:
      description: Product price
      type: number
      format: double
    count:
      description: Product count
      type: integer
      format: int32
    tag:
      description: Tags associated with the product
      type: array
      uniqueItems: true
      items:
        type: string
```

<https://editor.swagger.io/> 사이트를 통하여 확인

Swagger Editor
File Edit Insert Generate Server Generate Client About
Try our new Editor

```

1 openapi: 3.0.3
2 info:
3   title: Sample Ecommerce App
4   description: >
5     "This is a ***sample ecommerce app API***. You can find out more about Swagger at [swagger.io](http://swagger.io).
6   Description supports markdown markup. For example, you can use the 'inline code' using back ticks."
7   termsOfService: https://github.com/PacktPublishing/Modern-API-Development-with-Spring-6-and-Spring-Boot-3/blob/main/LICENSE
8   contact:
9     name: Packt Support
10    url: https://www.packt.com
11    email: support@packtpub.com
12  license:
13    name: MIT
14    url: https://github.com/PacktPublishing/Modern-API-Development-with-Spring-6-and-Spring-Boot-3/blob/main/LICENSE
15  version: 1.0.0
16  externalDocs:
17    description: Any document link you want to generate along with API.
18    url: http://swagger.io
19  servers:
20    - url: https://ecommerce.swagger.io/v2
21  tags:
22    - name: cart
23      description: Everything about cart
24      externalDocs:
25        description: Find out more (extra document link)
26        url: http://swagger.io
27    - name: order
28      description: Operation about orders
29    - name: user
30      description: Operations about users
31    - name: customer
32      description: Operations about user's persona customer
33    - name: address
34      description: Operations about user's address
35    - name: payment
36      description: Operations about payments
37    - name: shipping
38      description: Operations about shippings
39    - name: product
40      description: Operations about products
41    - name: card
42      description: card operation

```

Sample Ecommerce App 1.0.0 OAS 3.0

This is a *sample ecommerce app API*. You can find out more about Swagger at swagger.io. Description supports markdown markup. For example, you can use the [inline code](#) using back ticks.

Terms of service
Packt Support - Website
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Any document link you want to generate along with API.

Servers

https://ecommerce.swagger.io/v2

cart Everything about cart Find out more (extra document link) ^

GET	/api/v1/carts/{customer id} Returns the shopping cart	v
DELETE	/api/v1/carts/{customer id} Delete the shopping cart	v
GET	/api/v1/carts/{customer id}/items Returns the list of products in user's shopping cart	v
POST	/api/v1/carts/{customer id}/items Adds an item in shopping cart	v

- 🕒 Revision #5
- ★ Created 2 February 2025 12:30:26 by Admin
- ✎ Updated 2 February 2025 12:38:52 by Admin