

CPSC 471 Project API Specification

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Description: Users(customer,seller, and admin) login

URL: /login

METHOD: PUT

INPUT:

```
[{
  "user_name":string,
  "password":string
}]
```

OUTPUT:

```
[{
  "session_token":string
}]
```

/**

* APIs about SELLER

*/

Description: Get a list of sellers with page size and page number

URL: /sellers?pageSize=m&pageNumber=n

METHOD: GET

INPUT: N/A

OUTPUT:

```
[ {
  "user_name":string,
  "password":string
},
  ...
]
```

Description: Get a particular seller

URL: /sellers/:id

METHOD: GET

INPUT: N/A

OUTPUT:

```
[
  {
    "user_name":string,
    "password":string
  }
]
```

Description: Create new seller

URL: /sellers

METHOD: POST

INPUT:

```
[{
    "user_name":string,
    "password":string
}]
```

OUTPUT: N/A

Description: Delete a particular seller

URL: /sellers/:id

METHOD: DELETE

OUTPUT: N/A

Description: Get a list orders of a particular seller with page size and page nu

URL: /sellers/:id/orders?pageSize=m&pageNumber=n

METHOD: GET

INPUT: N/A

OUTPUT:

```
[  {
    "order_id":number,
    "customer_id":string,
    "seller_id":string,
    "total":float,
    "receiver_name":string,
    "receiver_address":string,
    "payment":boolean,
    "shipped":boolean,
    "cancelled":boolean,
    "shipment_label":string,
    "products":[{"product_id":number, "quantity "=number},...]
  },
  ...
]
```

Description: Get a particular order of a particular seller

URL: /sellers/:id/orders/:id

METHOD: GET

INPUT: N/A

OUTPUT:

```
[  {
    "order_id":number,
    "customer_id":string,
    "seller_id":string,
    "total":float,
    "receiver_name":string,
```

```

        "receiver_address":string,
        "payment":boolean,
        "shipped":boolean,
        "cancelled":boolean,
        "shipment_label":string,
        "products":[{"product_id":number, "quantity "=number},...]
    }
]

```

```

/**
 * APIs about CUSTOMER
 */

```

Description: Get a list of customers with page size and page number

URL: /customers?pageSize=m&pageNumber=n

METHOD: GET

INPUT: N/A

OUTPUT:

```

[
  {
    "user_name":string,
    "password":string,
    "cart_id":string
  },
  ...
]

```

Description: Get a particular customer

URL: /customers/:id

METHOD: GET

INPUT: N/A

OUTPUT:

```

[
  {
    "user_name":string,
    "password":string
    "cart_id":string
  }
]

```

Description: Create new customer

URL: /customers

METHOD: POST

INPUT:

```
[{
  "user_name":string,
  "password":string
}]
```

OUTPUT: N/A

Description: Delete a particular customer

URL: /customer/:id

METHOD: DELETE

OUTPUT: N/A

Description: Get a list orders of a particular customer with page size and page

URL: /customers/:id/orders?pageSize=m&pageNumber=n

METHOD: GET

INPUT: N/A

OUTPUT:

```
[  {
    "order_id":number,
    "customer_id":string,
    "seller_id":string,
    "total":float,
    "receiver_name":string,
    "receiver_address":string,
    "payment":boolean,
    "shipped":boolean,
    "cancelled":boolean,
    "shipment_label":string,
    "products":[{"product_id":number, "quantity "=number},...]
  },
  ...
]
```

Description: Get a particular order of a particular customer

URL: /customers/:id/orders/:id

METHOD: GET

INPUT: N/A

OUTPUT:

```
[  {
    "order_id":number,
    "customer_id":string,
    "seller_id":string,
    "total":float,
    "receiver_name":string,
    "receiver_address":string,
    "payment":boolean,
```

```

        "shipped":boolean,
        "cancelled":boolean,
        "shipment_label":string,
        "products":[{"product_id":number, "quantity "=number},...]
    }
]

```

Description: Get a customer's cart

URL: /customers/:id/cart

METHOD: GET

INPUT: N/A

OUTPUT:

```

[  {
    "cart_id":string,
    "products":[{"product_id":number,"quantity "=number}...],
    "total":number
}
]

```

Description: Add a product to the customer's cart

URL: /customers/:id/cart/product:id

METHOD: PUT

INPUT: N/A

OUTPUT: N/A

Description: Delete a product from the customer's cart

URL: /customers/:id/cart/product:id

METHOD: DELETE

INPUT: N/A

OUTPUT: N/A

```

/**
 * APIs for ORDER
 */

```

Description: Get a list of all orders with page size and page number

URL: /orders?pageSize=m&pageNumber=n

METHOD: GET

INPUT: N/A

OUTPUT:

```

[  {

```

```

        "order_id":number,
        "customer_id":string,
        "seller_id":string,
        "total":float,
        "receiver_name":string,
        "receiver_address":string,
        "payment":boolean,
        "shipped":boolean,
        "cancelled":boolean,
        "shipment_label":string,
        "products":[{"product_id":number, "quantity"=number},...]
    },
    ...]

```

Description: Get a particular order

URL: /orders/:id

METHOD: GET

INPUT: N/A

OUTPUT:

```

[ {
    "order_id":number,
    "customer_id":string,
    "seller_id":string,
    "total":float,
    "receiver_name":string,
    "receiver_address":string,
    "payment":boolean,
    "shipped":boolean,
    "cancelled":boolean,
    "shipment_label":string,
    "products":[{"product_id":number, "quantity"=number},...]
} ]

```

Description: Update a order

URL: /orders/:id

METHOD: PUT

INPUT: // the updated method does not necessary include every element of the fol

```

[ {
    "customer_id":string,
    "seller_id":string,
    "total":float,
    "receiver_name":string,
    "receiver_address":string,
    "payment":boolean,
    "shipped":boolean,

```

```

        "cancelled":boolean,
        "shipment_label":string,
        "products":[{"product_id":number, "quantity "=number},...]
    ]}

```

OUTPUT: N/A

Description: Create a order

URL: /orders/:id

METHOD: POST

INPUT:

```

    [{
        "customer_id":string,
        "seller_id":string,
        "total":float,
        "receiver_name":string,
        "receiver_address":string,
        "products":[{"product_id":number, "quantity "=number},...]
    ]}

```

OUTPUT:

```

    [{
        "order_id":string
    ]}

```

Description: Delete a particular order

URL: /orders/:id

METHOD: Delete

INPUT: N/A

OUTPUT: N/A

```

/**
 * APIs for PRODUCT
 */

```

Description: Get a list of products with search keyword, category, page size and

URL: /products?pageSize=m&pageNumber=n&key=k&category=c

METHOD: GET

INPUT: N/A

OUTPUT:

```

    [  {
        "product_id":string,
        "seller_id":string,
        "price":float,
        "search_keys":[string,...],
        "description":string
    }

```



```

    },
    ...
]

```

Description: Get a particular product

URL: /products/:id

METHOD: GET

INPUT: N/A

OUTPUT:

```

[ {
    "product_id":string,
    "seller_id":string,
    "price":float,
    "search_keys":[string...],
    "description":string
} ]

```

Description: Create a product

URL: /products

METHOD: POST

INPUT:

```

[ {
    "seller_id":string,
    "price":float,
    "search_keys":[string...],
    "description":string
} ]

```

OUTPUT:

```

[ {
    "product_id":string
} ]

```

Description: Update a particular product

URL: /products/:id

METHOD: PUT

INPUT:

```

[ {
    "seller_id":string,
    "price":float,
    "search_keys":[string...],
    "description":string
} ]

```

OUTPUT: N/A

Description: DELETE a particular product
URL: /products/:id
METHOD: DELETE
INPUT: N/A
OUTPUT: N/A

```
/**  
 * APIs for Category  
 */
```

Description: Get the complete list of all category
URL: /categories
METHOD: GET
INPUT: N/A
OUTPUT:
[
 { "category_id":string,
 "title":stirng}
 ...
]

Description: Create a new category
URL: /categories
METHOD: POST
INPUT:
[
 {
 "title":string
 }
]
OUTPUT:
[
 {
 "category_id":string
 }
]

Description: Update a category
URL: /categories/:id
METHOD: PUT
INPUT:
[
 {
 "title":string
 }
]
OUTPUT: N/A

Description: Delete a category

URL: /categories/:id
METHOD: DELETE
INPUT: N/A
OUTPUT: N/A

Description: Add a product into a category
URL: /categories/:id/products/:id
METHOD: PUT
INPUT: N/A
OUTPUT: N/A

Description: Delete a product from a category
URL: /categories/:id/products/:id
METHOD: DELETE
INPUT: N/A
OUTPUT: N/A