**Project Note:**

Please note that this API uses apitokens that are automatically generated. Please create admin account first and make sure username=”admin” (example below). To create admin account, use add user API below.

Before:

{

    "username": "admin",

    "password": "changing",

    "email": "null",

    "phone\_number": 0

}

After

{

    "apitoken": 7071155170911479,

    "username": "admin",

    "password": "changing",

    "email": "null",

    "phone\_number": 0

}

**Database Setup:**

CREATE DATABASE phase3project;

Create table product (productid int AUTO\_INCREMENT, season varchar(20), brand varchar(20), category varchar(20), price decimal(10,2), color varchar(20), createddate date, discount int, PRIMARY KEY (productid));

Create table user (apitoken BIGINT, username varchar(20), password varchar(20), email varchar(40), phone\_number BIGINT, PRIMARY KEY (apitoken));

Create table purchase(purchaseid int AUTO\_INCREMENT, usertoken BIGINT, productid int, purchasedate date, category varchar(20), FOREIGN KEY (usertoken) REFERENCES user(apitoken), FOREIGN KEY (productid) REFERENCES product(productid), PRIMARY KEY (purchaseid));

**To Run:**

Maven clean -> Maven Install -> Spring Boot APP

**Once project is running use links below to use API.**

Link: <http://localhost:8080/>

* product
  + all
    - Description: Get all products
    - Link: <http://localhost:8080/product/all>
    - Type: GET
  + {id}
    - Description: Find product using productid
    - Link: [http://localhost:8080/product/{id}](http://localhost:8080/product/%7bid%7d)
    - Example: <http://localhost:8080/product/1>
    - Type: GET
  + season/{season}
    - Description: Find Product based on season
    - Link: [http://localhost:8080/product/season/{season}](http://localhost:8080/product/season/%7bseason%7d)
    - Example: <http://localhost:8080/product/season/fall>
    - Type: GET
  + brand/{brand}
    - Description: Find Product based on brand
    - Link: [http://localhost:8080/product/brand/{brand}](http://localhost:8080/product/brand/%7bbrand%7d)
    - Example: <http://localhost:8080/product/brand/nike>
    - Type: GET
  + category/{category}
    - Description: Find product based on gender
    - Link: [http://localhost:8080/product/category/{category}](http://localhost:8080/product/category/%7bcategory%7d)
    - Example: <http://localhost:8080/product/category/male>
    - Type: GET
  + price/{price}
    - Description: Find product based on price
    - Link: [http://localhost:8080/product/price/{price}](http://localhost:8080/product/price/%7bprice%7d)
    - Example: <http://localhost:8080/product/price/42069>
    - Type: GET
  + price/ascending
    - Description: Find product by price sorted ascending
    - Link: <http://localhost:8080/product/price/ascending>
    - Type: GET
  + price/descending
    - Description: Find product by price sorted descending
    - Link: <http://localhost:8080/product/price/descending>
    - Type: GET
  + color/{color}
    - Description: Find product by color
    - Link: [http://localhost:8080/product/color/{color}](http://localhost:8080/product/color/%7bcolor%7d)
    - Example: <http://localhost:8080/product/color/red>
    - Type: GET
  + date/{date}
    - Description: Find product by date
    - Link: [http://localhost:8080/product/date/{date}](http://localhost:8080/product/date/%7bdate%7d)
    - Example: <http://localhost:8080/product/date/2021-09-08>
    - Type: GET
  + date/ascending
    - Description: Find product by date sorted ascending
    - Link: <http://localhost:8080/product/date/ascending>
    - Type: GET
  + date/descending
    - Description: Find product by date sorted descending
    - Link: <http://localhost:8080/product/date/descending>
    - Type: GET
* user
  + {token}/resetpassword
    - Description: Reset or change password for a user using apitoken
    - Link: http://localhost:8080/user/{token}/resetpassword
    - Example: http://localhost:8080/user/7071155170911479/resetpassword
    - Type: PUT
    - Example json:

{

    "username": "admin",

    "password":"admin",

    "email":"null",

    "phone\_number": **null**

}

* + {token}/allusers
    - Description: Admin only – Get all users
    - Link: http://localhost:8080/user/{token}/allusers
    - Example: http://localhost:8080/user/7071155170911479/allusers
    - Type: GET
  + add
    - Description: Create a user. Note: Do not add apitoken as it is automatically generated
    - Link: http://localhost:8080/user/add
    - Example: http://localhost:8080/user/add
    - Type: POST
    - Example json:

{

    "username": "mrwish",

    "password":"hibachi",

    "email":"hibachiexpress@gmail.com",

    "phone\_number": 911

}

* + {token}
    - Description: Search for specific user
    - Link: http://localhost:8080/user/{token}
    - Example: http://localhost:8080/user/7071155170911479
    - Type: GET
  + {token}/product/add
    - Description: Admin only – Create and add product
    - Link: http://localhost:8080/user/{token}/product/add
    - Example: http://localhost:8080/user/7071155170911479/product/add
    - Type: PUT
    - Example json:

{

   "season": "fall",

   "brand":"nike",

   "category":"transgender",

   "price":42069,

   "color":"fucsia",

   "createddate": "2021-09-07",

   "discount": 69

}

* + {token}/product/all
    - Description: Admin only – Get all products
    - Link: http://localhost:8080/user/{token}/product/all
    - Example: http://localhost:8080/user/7071155170911479/product/all
    - Type: GET
  + {token}/product/update/{id}
    - Description: Admin only – Update product details using product id
    - Link: http://localhost:8080/user/{token}/product/update/{id}
    - Example: http://localhost:8080/user/7071155170911479/product/update/1
    - Type: PUT
    - Example json:

{

   "season": "winter",

   "brand":"samsung",

   "category":"male",

   "price":690069,

   "color":"dark grey",

   "createddate": "2006-06-06",

   "discount": 42

}

* + {token}/product/delete/{id}
    - Description: Admin only – Delete specified product using product id
    - Link: http://localhost:8080/user/{token}/product/delete/{id}
    - Example: http://localhost:8080/user/7071155170911479/product/delete/2
    - Type: DELETE
  + {token}/purchase/{id}
    - Description: Any user can purchase product with product id
    - Link: http://localhost:8080/user/{token}/purchase/{id}
    - Example: http://localhost:8080/user/7071155170911479/purchase/2
    - Type: GET
  + {token}/purchase/all/date/ascending
    - Description: Admin only – Get purchases based on date ascending
    - Link: http://localhost:8080/user/{token}/purchase/all/date/ascending
    - Example: http://localhost:8080/user/7071155170911479/purchase/all/date/ascending
    - Type: GET
  + {token}/purchase/all/date/descending
    - Description: Admin only – Get purchases based on date descending
    - Link: http://localhost:8080/user/{token}/purchase/all/date/descending
    - Example: <http://localhost:8080/user/7071155170911479/purchase/all/date/descending>
    - Type: GET
  + {token}/purchase/all/category/ascending
    - Description: Admin only – Get purchases based on category (gender) ascending
    - Link: http://localhost:8080/user/{token}/purchase/all/category/ascending
    - Example: http://localhost:8080/user/7071155170911479/purchase/all/category/ascending
    - Type: GET
  + {token}/purchase/all/category/descending
    - Description: Admin only – Get purchases based on category (gender) descending
    - Link: http://localhost:8080/user/{token}/purchase/all/category/descending
    - Example: http://localhost:8080/user/7071155170911479/purchase/all/category/descending
    - Type: GET