

5 extra endpoints

A wooden desk with a keyboard, two black binder clips, and a white cup of coffee.

1-getBuyProduct

2-getRangPriceCategory

3-ReturnProduct

4-Favorites

5-generateRating

1-getBuyProduct

```
////////1
public ArrayList<Product> getBuyProduct(String userId,String productName ) { 2 usages
    ArrayList<Product> products = new ArrayList<>();
    for (Product p : product.products) {
        if (!p.getProductName().equals(productName)) {
            for (User u : users) {
                if (!u.getUserID().equals(userId)) {
                    return null;
                }
            }
        }
    }
    for(User u : users) {
        if (u.getUserID().equals(userId)) {
            for ( Product p: getBuy) {
                if(p.getProductName().equals(productName)){
                    products.add(p);
                }
            }
        }
    }
    return products;
}
```

2-getRangPriceCategory

```
/////////2
public ArrayList<Product> getRangPriceCategory(String categoryId,int p1 , int p2 ) { 2 usages

    ArrayList<Product> products = new ArrayList<>();
    for(Product p : product.products ) {
        if(!p.getCategoryId().equals(categoryId)) {
            return null;
        }
    }
    if (p1 < 0 && p2 < 0 && p1 < p2){
        return null;
    }

    for (Product p : product.products) {
        if(p1 >= p.getProductPrice() || p2 <= p.getProductPrice()){
            products.add(p);
        }
    }
    return products;
}
```

3-ReturnProduct

```
/////////3
public String ReturnProduct(String userAdmin ,String userCustomer, String productId , String merchantId){ 1 usage
    int stock = 0 ;
    double price = 0;
    for(User u : users) {
        if (u.getUserID().equals(userAdmin)) {
            if(!userAdmin.equals("Admin")) {
                return "You do not have permission to edit.";
            }
        }else
            return "id admin isn't found";
    }

    for(User u : users) {
        if (u.getUserID().equals(userCustomer)) {
            if(!userCustomer.equals("Customer")) {
                return "Log in with your user account ";
            }
        }else
            return "id customer isn't found";
    }

    for(Product p : product.products) {
        if(!p.getProductID().equals(productId)) {
            return "Product id isn't found";
        }
        price = p.getProductPrice();
    }

    for(MerchantStock m : merchantStock.merchantStocks) {
        if(!m.getMerchantId().equals(merchantId)) {
            return "Merchant id isn't found";
        }
        stock = m.getStock();
    }
}
```

4-Favorites

```
////////4

public ArrayList<Product> Favorites(String userId , String productId ) { 2 usages
    ArrayList<Product> products = new ArrayList<>();
    for(User u : users) {
        if (!u.getUserID().equals(userId)) {
            for (Product p : product.products) {
                if(!p.getProductId().equals(productId)) {
                    return null;
                }
            }
        }
    }
    for(Product p : product.products) {
        if(p.getProductId().equals(productId)) {
            products.add(p);
        }
    }
    return products;
}
```

5-generateRating

```
//////////5
```

```
public String generateRating(String userId, String productId) { 1 usage
    Random random = new Random();

    for(User u : users) {
        if (!u.getUserID().equals(userId)) {
            return "user id isn't found";
        }
    }

    for (Product p : product.products) {
        if (!p.getProductID().equals(productId)) {
            return "product id isn't found";
        }
    }

    int rating = random.nextInt( bound: 5) + 1;
    String star = "*".repeat(rating);
    return star;
}
```