



Tuwaiq BootCamp

PRESENTATION



Present by Arwa Almuafi



PRODUCT SERVICE LAYER

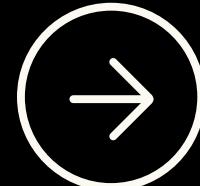


```
//1
public boolean markProductAsFeatured(String productId) { 1 usage
    for (Product product : products) {
        if (product.getId().equals(productId)) {
            product.setFeatured(true);
            return true;
        }
    }
    return false;
}

//1
public ArrayList<Product> getFeaturedProducts() { 1 usage
    ArrayList<Product> featuredProducts = new ArrayList<>();
    for (Product product : products) {
        if (product.isFeatured()) {
            featuredProducts.add(product);
        }
    }
    return featuredProducts;
}
```



PRODUCT SERVICE LAYER



```
user.setBalance(user.getBalance() - product.getPrice());  
stock.setStock(stock.getStock() - 1);  
productService.increaseSalesCount(product);
```

```
//2  
public void increaseSalesCount(Product product) { 1 usage  
    product.setSalesCount(product.getSalesCount() + 1);  
  
}  
  
public Product getBestSellingProduct() { 1 usage  
    if (products.isEmpty()) {  
        return null;  
    }  
  
    Product bestSellingProduct = products.get(0);  
  
    for (Product product : products) {  
        if (product.getSalesCount() > bestSellingProduct.getSalesCount()) {  
            bestSellingProduct = product;  
        }  
    }  
  
    return bestSellingProduct;  
}
```

MERCHANT SERVICE LAYER

```
//3
public Merchant getBestRatedMerchant() { 1 usage
    if (merchants.isEmpty()) {
        return null;
    }

    Merchant bestMerchant = null;
    double highestRating = 0.0;

    for (Merchant merchant : merchants) {
        if (merchant.getRating() > highestRating) {
            highestRating = merchant.getRating();
            bestMerchant = merchant;
        }
    }

    return bestMerchant;
}
```

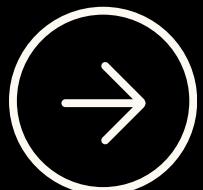
```
//3
public boolean rateMerchant(String merchantId, int rating) { 1 usage
    if (rating < 1 || rating > 5) {
        return false;
    }

    for (Merchant merchant : merchants) {
        if (merchant.getId().equals(merchantId)) {
            ArrayList<Integer> ratings = new ArrayList<>();
            merchant.getRating();
            if (ratings == null) {
                ratings = new ArrayList<>();
                merchant.setRating(rating);
            }
            ratings.add(rating);

            int total = 0;
            for (int r : ratings) {
                total += r;
            }
            merchant.setRating(total / ratings.size());
            return true;
        }
    }
    return false;
}
```



```
//4
public boolean isStockAvailable(String productId, String merchantId, int quantity) { 1 usage
    for (MerchantStock stock : merchantStocks) {
        if (stock.getMerchantId().equals(merchantId) && stock.getProductId().equals(productId)) {
            return stock.getStock() >= quantity;
        }
    }
    return false;
}
```



MERCHANTSTOCK SERVICE LAYER



CATEGORY SERVICE LAYER



```
//5
public ArrayList<Category> getActiveCategories() { 1 usage
    ArrayList<Category> activeCategories = new ArrayList<>();
    for (Category category : categories) {
        if (category.isActive()) {
            activeCategories.add(category);
        }
    }
    return activeCategories;
}

public boolean markAsActive( String categoryId){ 1 usage
    for(Category category:categories){
        if(category.getId().equals(categoryId)){
            category.setActive(true);
            return true;
        }
    }
    return false;
}
```



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THANK YOU

for your time and attention

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