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# Exercise 03 - Handling New Product Events

## Required Services

The following services are involved and have to be started before the final exercise validation:

NotificationSrv (http://localhost:8010)

• ProductSrv (http://localhost:8050)

WarehouseSrv (http://localhost:8070)

### Description

The product management team has decided to establish a new follow-up process when a new product has been added to the DB of the ProductSrv. To make their job easier and reduce manual efforts, several automatic actions have to be performed when a new product has been successfully created via POST http://localhost:8050/products (webshop.products.resources.ProductResource).

#### **Tasks**

The following extensions to the createProduct() method (webshop.products.resources.ProductResource) have to be added as a follow up to a successful finish:

1. **NotificationSrv: Add the product to the internal new product DB.** The NotificationSrv has an internal DB with new products. Products can be added by invoking POST

```
http://localhost:8010/new-products
(webshop.notifications.resources.NotificationResource). The payload for this method is the newly created webshop.products.api.Product instance that is returned from the storeProduct() method of the webshop.products.db.ProductRepository. Use the provided Jersey restClient instance for this. You can copy and adapt one of the existing invocation examples (e.g. the OrderSrv's marketing mail request from exercise 1, task 3).
```

2. NotificationSrv: Notify the sales department about the new product. The NotificationSrv provides functionality for this via POST http://localhost:8010/product-mails (webshop.notifications.resources.NotificationResource). The payload for this method is an instance of webshop.products.api.NewProductMailRequest. Use the provided Jersey restClient instance for this, in the same fashion as for task 1. Below is an exemplary payload:

```
// Creating a new product mail request for the NotificationSrv
NewProductMailRequest newProductMailRequest = new
NewProductMailRequest("NEW_PRODUCT_MAIL", createdProduct);
```

3. WarehouseSrv: Stock-up on 10 copies of the newly created product. As a start, the WarehouseSrv needs to have 10 copies of the new product available for purchase. This stock-up process can be initiated by invoking PUT http://localhost:8070/products/{id}/availability?amount=10 (webshop.warehouse.resources.WarehouseResource). Use the provided Jersey restClient

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instance for this, in the same fashion as for task 1 and 2. Since there is no payload (only the URL parameter amount), you need to use an empty string payload as a workaround like so:

```
Invocation.Builder request = restClient.target(warehouseSrvUrl).request();
request.put(Entity.json(""), BaseResponse.class);
```

#### Validation

When you are finished with all tasks, make sure all required services (see Required Services) and the exercise validation UI is up and running (if not, execute exercise-validation/build-and-run-validation-ui.sh) and then navigate to http://localhost:5001. Click on Exercise 03 and then on Start Validation. If every check is successful (status: true), pause your stopwatch and notify an experiment admin to write down your time.