Lab 5. Spring integration
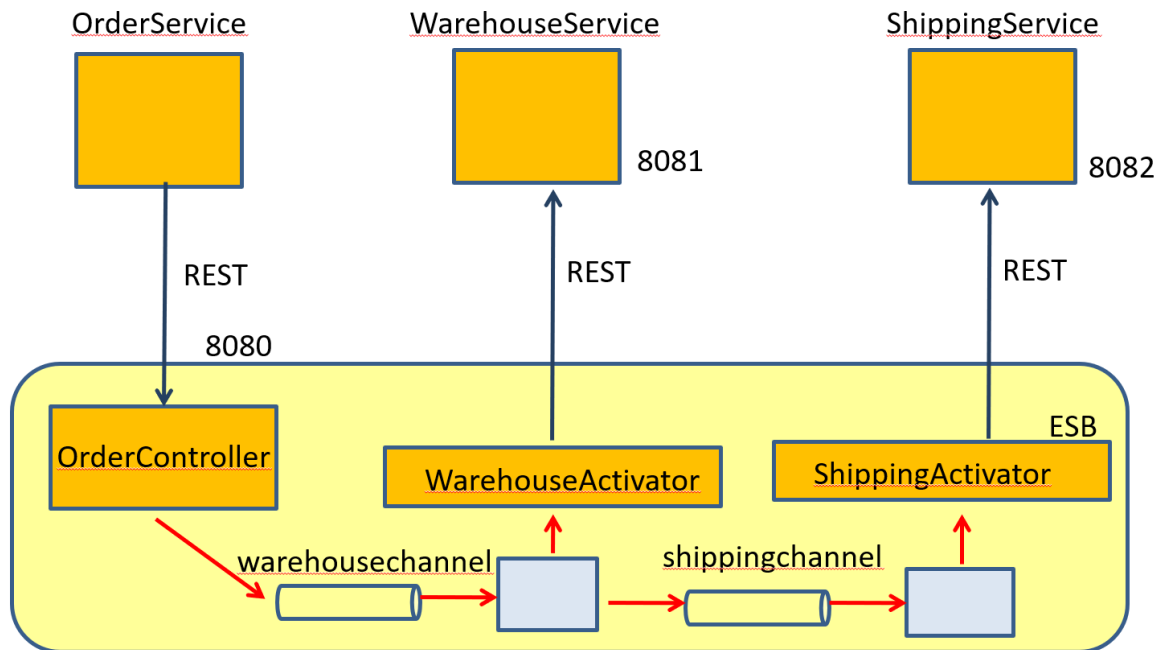
Given are the projects **OrderService, EnterpriseServiceBus, WarehouseService and ShippingService**
Start the **EnterpriseServiceBus, WarehouseService and ShippingService**

If you now run the **OrderService,** you should see the orders printed in the **WarehouseService and ShippingService**

a. Now modify the application such that we have 2 shipping services
   1. A **next day shipping service** that ships all orders of more than 175 dollars
   2. A **normal shipping service** that ships all orders below 175 dollars

b. Modify the application such that we have another extra shipping service for international orders. Add an extra field "orderType" in the order. There are 2 possible order types: "international" and "domestic" The application should have 2 routers. The first checks the order type. International orders are handled by the **international shipping service**. Domestic orders of more than 175 dollars are handled by the **next day shipping service**, and domestic orders below 175 dollars are handled by the **normal shipping service**.

c. Modify the application such that after we shipped the order, you also need to pay for the order. There are 3 external services that can handle the payment for the order: Mastercard payment service, Visa payment service and PayPal payment service. Modify the incoming order as such that the order contains payment information and that the order is paid correctly with the correct payment service.

d. Implement a monitoring application such that we can monitor the whole order processing process in one place. This application writes all steps of the process to the console so that it is easy to follow all steps of the whole process in one place

What to hand in?

1. A zip file containing all services including the ESB