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应用系统体系架构 — 作业5

学号：521030990006

姓名：VAHAGN GHAZARYAN

## **Develop a functional service - book-price-calculator**

## **How My Service is Deployed and Used:**

## I have created separate functional micro-service called book-price-calculator.

## *Calculator (main functionality):*

## 

## *Configuration:*

## 

## *Main app*

## 

## *How it is used?*

## 

## For each orderItem I make a post request to localhost:8082/bookPriceCalculator functional micro-service and sum up the total price.

## **What Stateless Means in Functional Services?**

## Stateless means that the functional service doesn't maintain any state between requests. Each request is independent and doesn't rely on any stored state from previous requests. In my case, the service receives the price and quantity, performs a calculation, and returns the total price for that kind of book in the order. There's no need to remember past calculations or any other data from one invocation to the next.

## **Why Functional Services Are Easy to Scale?**

## Functional services are easy to scale horizontally because they are stateless. Since each invocation is independent, it doesn't matter which instance of the service processes a request. This makes it straightforward to distribute requests across multiple instances of the service running in parallel, either on the same server or distributed across multiple servers.