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应用系统体系架构 — 作业10

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## Please install Nginx on your own machine, run two instances of the same application as shown in the class example, and then let Nginx act as a gateway to forward requests. Please run three different forwarding strategies in nginx .conf in sequence, and configure different weights for the two instances. Post a screenshot of the running results in a Word document, and describe in detail the differences in the running results under various configurations based on the screenshots. And analyze the reasons for this difference.

## *1) Default: Round Robin without weighs*

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## After I send 4 requests , first two redirect to server 1, last two to server2.

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## It’s equal ration cause of the Round Robin algorithms nature. Each server will receive requests in a sequential and evenly distributed manner.

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## After I send 4 requests , first two redirect to server 1, last two to server2.

## But If "Server One" has long-lasting connections and "Server Two" has fewer or shorter connections, I will see more of server 2.

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## After I send 4 requests , I only get serverOne result, cause I am requesting from the same client (hash is the same)

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## After I send 7 requests , first two redirect to server 1, then one to server2, then 4four to server 1 and last one to server 2. cause of the weighs ratio 1/3. (2+4 / 2 = 3)

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## **B.Please use GraphQL to implement the function of searching for books by book name in your e-book store. Please pay attention to the following issues:**

## i.The code of the DAO, Service, Repository, and Entity layers that implement data search in the database in the background should reuse your existing code.

## ii.GraphQL requests sent by the front end should use variables to reuse query statements.

## Changes in backend

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## *BookController.java*

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## *BookService.java*

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## *BookDaoImpl.java*

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## *Schema.graphqls*

## Changes in frontend

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## DEMO 1: USING POSTMAN

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## DEMO2: FRONT

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