**Creating Microservices for account and loan**

In this hands on exercises, we will create two microservices for a bank. One

microservice for handing accounts and one for handling loans.

Each microservice will be a specific independent Spring RESTful Webservice

maven project having it's own pom.xml. The only difference is that, instead of

having both account and loan as a single application, it is split into two

different applications. These webservices will be a simple service without any

backend connectivity.

**Account Microservice**

* Group : com.cognizant
* Artifact : account
* Modules : spring Boot Dev Tools, Spring Web
* Method : GET , EndPoint : /accounts/{number}
* Sample Response :

{number : “00987987987654”, type : “savings”, balance : 653289}

**AccountController.java**

package com.cognizant.account.controller;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.RestController;

import java.util.Map;

@RestController

public class AccountController {

@GetMapping("/accounts/{number}")

public Map<String, Object> getAccountDetails(@PathVariable String number) {

return Map.of(

"number", number,

"type", "savings",

"balance", 234343

);

}

}

**Output :**

**>mvn clean package**

**>mvn spring-boot:run**

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AI-generated content may be incorrect.**

**Loan Microservice**

* Group : com.cognizant
* Artifact : loan
* Modules : spring Boot Dev Tools, Spring Web
* Method : GET , EndPoint : /loan/{number}
* Sample Response :

{number : “H00987987973432”, type : “car”, loan: 400000, emi: 3258, tenure: 18}

**LoanController.java**

// package main.java.com.cognizant.loan.controller;

package com.cognizant.loan.controller;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.RestController;

import java.util.Map;

@RestController

public class LoanController {

@GetMapping("/loans/{number}")

public Map<String, Object> getLoanDetails(@PathVariable String number) {

return Map.of(

"number", number,

"type", "car",

"loan", 400000,

"emi", 3258,

"tenure", 18

);

}

}

**LoanApplication.java**

// package com.cognizant.loan;

package com.cognizant.loan;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class LoanApplication {

public static void main(String[] args) {

SpringApplication.run(LoanApplication.class, args);

}

}

**application.properties**

spring.application.name=loan

server.port=8081

**Output**

**>mvn clean package**

**>mvn spring-boot:run**

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