***Cognizant Java FSE – (Deep Skilling)***

***(WEEK-4)***

# **MODULE: Spring REST using Spring Boot**

*Submitted by*

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***Microservices with API gateway***

**Creating Microservices for account and loan**

**Part 1: Account Microservice**

**Step 1: Create project from Spring Initializr**

Go to <https://start.spring.io/>

* Group: com.cognizant
* Artifact: account
* Dependencies:
  + Spring Boot DevTools
  + Spring Web
* Click **Generate** and download the zip
* Extract the folder account into D:\1234567\microservices\

**Step 2: Create AccountController.java**

package com.cognizant.account.controller;

import org.springframework.web.bind.annotation.\*;

import java.util.Map;

@RestController

@RequestMapping("/accounts")

public class AccountController {

@GetMapping("/{number}")

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

return Map.of(

"number", number,

"type", "savings",

"balance", 234343

);

}

}

**Step 3: Run the app**

package com.cognizant.account;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class AccountApplication {

public static void main(String[] args) {

SpringApplication.run(AccountApplication.class, args);

}

}

**Test in browser**

**✅ Output**

A screenshot of a computer program

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

**Part 2: Loan Microservice**

**Step 1: Generate from Spring Initializr**

Go to <https://start.spring.io/>

* Group: com.cognizant
* Artifact: loan
* Dependencies:
  + Spring Boot DevTools
  + Spring Web
* Click **Generate** and download the zip
* Extract loan into: D:\1234567\microservices\loan

**Step 2: Create LoanController.java**

package com.cognizant.loan.controller;

import org.springframework.web.bind.annotation.\*;

import java.util.Map;

@RestController

@RequestMapping("/loans")

public class LoanController {

@GetMapping("/{number}")

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

return Map.of(

"number", number,

"type", "car",

"loan", 400000,

"emi", 3258,

"tenure", 18

);

}

}

**Step 3: Run the app**

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);

}

}

**Test in browser**

**✅ Output**

A screenshot of a computer

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