Day 10 Java Assignment

Employee Info API using Spring Boot AutoConfiguration

```
pom.xml:
```

```
<?xml version="1.0" encoding="UTF-8"?>
project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<groupId>com.company</groupId>
<artifactId>employee-api</artifactId>
<version>0.0.1-SNAPSHOT
<name>Employee API</name>
<parent>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-parent</artifactId>
<version>3.2.0</version>
<relativePath/>
</parent>
properties>
<java.version>17/java.version>
<dependencies>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-web</artifactId>
</dependency>
</dependencies>
<build>
<plugins>
```

```
<plugin>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-maven-plugin</artifactId>
</plugin>
</plugins>
</build>
</project>
application.properties:
server.port=8082
spring.application.name=employee-api
EmployeeController:
package com.company.employeeapi.controller;
import java.util.Map;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
@RestController
public class EmployeeController {
@GetMapping("/employee")
public Map<String, Object> getEmployee() {
return Map.of(
"id", 101,
"name", "John Doe",
"department", "Engineering");
}
}
```

EmployeeApiApplication:

```
package com.company.employeeapi;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class EmployeeApiApplication {
public static void main(String[] args) {
SpringApplication.run(EmployeeApiApplication.class, args);
}
}
```

2. Spring Boot – Actuators

Monitoring an Inventory System Problem Statement

```
pom.xml:
<?xml version="1.0" encoding="UTF-8"?>
project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchemainstance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<parent>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-parent</artifactId>
<version>3.5.4</version>
<relativePath/>
</parent>
<groupId>com.company</groupId>
<artifactId>inventory-monitor</artifactId>
<version>0.0.1-SNAPSHOT
<name>inventory-monitor</name>
```

```
<description>com.company.inventorymonitor</description>
<url/>
licenses>
license/>
<developers>
<developer/>
</developers>
<scm>
<connection/>
<developerConnection/>
<tag/>
<url/>
</scm>
properties>
<java.version>17</java.version>
<dependencies>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-actuator</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-test</artifactId>
<scope>test</scope>
```

```
</dependency>
</dependencies>
<build>
<plugins>
<plugin>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-maven-plugin</artifactId>
</plugin>
</plugins>
</build>
</project>
application.properties:
server.port=8085
spring.application.name=inventory-monitor
management.endpoints.web.exposure.include=*
management.endpoint.health.show-details=always
<u>InventoryMonitorApplication:</u>
package com.company.inventory_monitor;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class InventoryMonitorApplication {
public static void main(String[] args) {
SpringApplication.run(InventoryMonitorApplication.class, args);
}
```

<u>InventoryController:</u>

```
package com.company.inventorymonitor.controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
import java.util.Map;
@RestController
public class InventoryController {
    @GetMapping("/inventory")
    public Map<String, Object> getInventoryStatus() {
    return Map.of(
    "status", "available",
    "items", 120,
    "location", "Warehouse A"
    );
}
```

}