

DAY-10 SPRING BOOT ASSIGNMENT

Case Study Title: Employee Info API using Spring Boot AutoConfiguration

EmployeeApiApplication.java

```
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);

    }

}
```

EmployeeController.java

```
package com.company.employeeapi.controller;

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

@RestController

public class EmployeeController {

    @GetMapping("/employee")

    public Employee getEmployee() {
```

```
        return new Employee(101, "John Doe", "Engineering");  
    }  
}
```

```
static class Employee {  
    private final int id;  
    private final String name;  
    private final String department;  
  
    public Employee(int id, String name, String department) {  
        this.id = id;  
        this.name = name;  
        this.department = department;  
    }  
  
    public int getId() { return id; }  
    public String getName() { return name; }  
    public String getDepartment() { return department; }  
}  
}
```

application.properties

spring.application.name=employee-api

server.port=8080

Case Study: Monitoring an Inventory System

application.properties

management.endpoints.web.exposure.include=*

MonitoringApplication.java

```
package com.inventory.monitoringapp;
```

```
import org.springframework.boot.SpringApplication;
```

```
import org.springframework.boot.autoconfigure.SpringBootApplication;
```

```
@SpringBootApplication
```

```
public class MonitoringAppApplication {
```

```
    public static void main(String[] args) {
```

```
        SpringApplication.run(MonitoringAppApplication.class, args);
```

```
    }
```

```
}
```

InventoryController.java

```
package com.inventory.monitoringapp.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> getInventory() {
    return Map.of(
        "item", "Laptop",
        "quantity", 50,
        "status", "Available"
    );
}
```