## **✓** Case Study Title: Employee Info API using Spring Boot **AutoConfiguration**

/employeeapp/src/main/java/com/example/employeeapp/model/Employee.java package com.example.employeeapp.model;

```
public class Employee {
       private int id;
       private String name;
       private String email;
       private String department;
       public Employee() {}
       public Employee(int id, String name, String email, String department) {
               this.id = id;
               this.name = name;
               this.email = email;
               this.department = department;
       }
       public int getId() {
               return id;
       }
       public void setId(int id) {
               this.id = id;
       }
       public String getName() {
               return name;
       public void setName(String name) {
               this.name = name;
       public String getEmail() {
               return email;
       public void setEmail(String email) {
               this.email = email;
       public String getDepartment() {
               return department;
       }
       public void setDepartment(String department) {
               this.department = department;
       }
```

}

## /employeeapp/src/main/java/com/example/employeeapp/controller/EmployeeController.java

```
package com.example.employeeapp.controller;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import com.example.employeeapp.model.Employee;
import com.example.employeeapp.service.EmployeeService;
@Controller
@RequestMapping("/employees") //main route for employees
public class EmployeeController {
       @Autowired
       private EmployeeService service;
       @GetMapping //default route
       public String listEmployees(Model model) {
              model.addAttribute("employees", service.getAll());
              return "index"; //html template page
       }
       @GetMapping("/add") //get form to post
       public String showAddForm(Model model) {
              model.addAttribute("employees", new Employee());
              return "add"; //html template page
       }
       @PostMapping("/add") //route for post request
       public String addEmployee(@ModelAttribute Employee emp) {
              service.add(emp);
              return "redirect:/employees";
       }
       @GetMapping("/edit/{id}")
       public String showEditForm(@PathVariable int id, Model model) {
              model.addAttribute("employees", service.getByld(id));
              return "edit";
       }
       @PostMapping("/update")
       public String updateEmployee(@ModelAttribute Employee emp) {
              service.update(emp);
```

## 2. Spring Boot - Actuators

**©** Case Study: Monitoring an Inventory System

## **Application.properties**

spring.application.name=actuatordemo

**#Spring Boot Actuator exposes production-ready features like health checks, metrics, beans, and custom endpoints.** 

management.endpoints.web.exposure.include=health,beans,metrics,env

management.endpoints.web.base-path=/actuator

management.endpoint.health.show-details=always