Spring Boot Actuator

Directory Structure

pom.xml

<modelVersion>4.0.0</modelVersion>

```
<groupId>com.company</groupId>
<artifactId>employee-api</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>employee-api</name>
<description>Spring Boot AutoConfiguration Case Study</description>
<packaging>jar</packaging>
<parent>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-parent</artifactId>
  <version>3.2.4!-- or latest -->
</parent>
cproperties>
  <java.version>17</java.version>
</properties>
<dependencies>
  <!-- Spring Web for REST API -->
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
  </dependency>
  <!-- Actuator for Monitoring -->
  <dependency>
    <groupId>org.springframework.boot</groupId>
```

```
<artifactId>spring-boot-starter-actuator</artifactId>
    </dependency>
    <!-- Optional: For JSON mapping -->
    <dependency>
       <groupId>com.fasterxml.jackson.core</groupId>
       <artifactId>jackson-databind</artifactId>
    </dependency>
  </dependencies>
  <build>
    <plugins>
       <!-- Maven Plugin -->
       <plugin>
         <groupId>org.springframework.boot</groupId>
         <artifactId>spring-boot-maven-plugin</artifactId>
       </plugin>
    </plugins>
  </build>
</project>
```

EmployeeApiApplication.java

package com.company.employeeapi;

 $import\ org. spring framework. boot. Spring Application;$

 $import\ or g. spring framework. boot. autoconfigure. Spring Boot Application;$

```
@SpringBootApplication
public class EmployeeApiApplication {
   public static void main(String[] args) {
      SpringApplication.run(EmployeeApiApplication.class, args);
   }
}
```

controller/EmployeeController.java

}

```
spring.application.name=EmployeeInfoAPI server.port=8080
```

Test with Postman or browser:

```
http://localhost:8080/employee → Should return JSON:
{
   "id": 101,
   "name": "John Doe",
   "department": "Engineering"
}
```