SpringBoot MongoDb

1.Pom.Xml

```
<properties>
   <java.version>21</java.version>
</properties>
<dependencies>
   <dependency>
       <groupId>org.springframework.boot</groupId>
       <artifactId>spring-boot-starter-data-mongodb</artifactId>
   </dependency>
   <dependency>
       <groupId>org.springframework.boot</groupId>
       <artifactId>spring-boot-starter-thymeleaf</artifactId>
   </dependency>
   <dependency>
       <groupId>org.springframework.boot
       <artifactId>spring-boot-starter-web</artifactId>
   </dependency>
   <dependency>
       <groupId>org.projectlombok</groupId>
       <artifactId>lombok</artifactId>
       <optional>true</optional>
   </dependency>
   <dependency>
       <groupId>org.springframework.boot</groupId>
       <artifactId>spring-boot-starter-test</artifactId>
       <scope>test</scope>
   </dependency>
</dependencies>
```

2.Properties

```
spring.application.name=demo-employee-mongo-db

server.port=8080

# If MongoDB runs locally
spring.data.mongodb.host=localhost
spring.data.mongodb.port=27017
spring.data.mongodb.database=employee_db

# If you want to use MongoDB URI style (instead of host/port):
    spring.data.mongodb.uri=mongodb://localhost:27017/employee_db

spring.thymeleaf.cache=false
spring.thymeleaf.prefix=classpath:/templates/
spring.thymeleaf.suffix=.html
```

3.Entity-(EmployeeDb)

```
package com.example.demo_employee_mongo_db.entity;
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
import org.springframework.data.annotation.Id;
import org.springframework.data.mongodb.core.mapping.Document;
@Document(collection = "employees") 13 usages
@Data
@AllArgsConstructor
@NoArgsConstructor
public class EmployeeDb {
    bI6
    private Long employeeId;
    private String name;
 🥊 private String email;
    private String location;
```

4. Repositery

5.Service

```
package com.example.demo_employee_mongo_db.service;
import com.example.demo_employee_mongo_db.entity.EmployeeDb;
import com.example.demo_employee_mongo_db.repository.EmployeeDbRepository;
import lombok.AllArgsConstructor;
import org.springframework.stereotype.Service;
import java.util.List;
import java.util.Optional;
@Service 2 usages
@AllArgsConstructor
public class EmployeeDbService {
    private EmployeeDbRepository employeeDbRepository;
    public EmployeeDb saveEmployee(EmployeeDb employeeDb){    1usage
        return employeeDbRepository.save(employeeDb);
    public List<EmployeeDb> getAllEmployees(){    1usage
        return employeeDbRepository.findAll();
    public Optional<EmployeeDb> getEmployeeById(Long employeeId){    1usage
        return employeeDbRepository.findById(employeeId);
```

6.Controller

```
package com.example.demo_employee_mongo_db.controller;
                                                                              Close. Alt+Click to Close Others (Ctrl+F4)
import com.example.demo_employee_mongo_db.entity.EmployeeDb;
import com.example.demo_employee_mongo_db.service.EmployeeDbService;
import lombok.AllArgsConstructor;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.*;
import java.util.List;
@Controller no usages
@AllArgsConstructor
public class EmployeeDbController {
    private EmployeeDbService employeeDbService;
   @GetMapping("/") no usages
   public String indexPage(Model model) {
        model.addAttribute( attributeName: "employeeDb", new EmployeeDb());
   @PostMapping("/employeeSave") no usages
    public String saveEmployee(@ModelAttribute EmployeeDb employeeDb, Model model) {
        employeeDbService.saveEmployee(employeeDb);
       model.addAttribute( attributeName: "message", attributeValue: "Employee Saved Successfully!");
```

```
public class EmployeeDbController {
                                                                                                                                  A7 A1 /
   public String saveEmployee(@ModelAttribute EmployeeDb employeeDb, Model model) {
    @PostMapping("/employee/api") no usages
    @ResponseBody
   public EmployeeDb saveEmployeeApi(@RequestBody EmployeeDb employeeDb) {
        return employeeDbService.saveEmployee(employeeDb);
    @GetMapping("/displayAll") no usages
    @ResponseBody
   public List<EmployeeDb> displayAllEmployeesDb() {
        return employeeDbService.getAllEmployees();
    @GetMapping("/display/{employeeId}") no usages
   @ResponseBody
   public EmployeeOb displayEmployeesDb(@PathVariable Long employeeId){
        return employeeDbService.getEmployeeById(employeeId).orElseThrow(() -> new RuntimeException("Employee Not found"));
```

7.Index

```
<!DOCTYPE html>
<html lang="en" xmlns:th="http://www.thymeleaf.org">
<head>
    <meta charset="UTF-8">
   <title>Employees Form</title>
</head>
<body>
<h2> Enter Employee Details</h2>
<form th:action="@{/employeeSave}" th:object="${employeeDb}" method="post">
    <label>Employee ID:</label>
    <input type="text" th:field="*{employeeId}" required/><br>
    <label>Employee Name:</label>
    <input type="text" th:field="*{name}" required/><br>
    <label>Employee Email:</label>
    <input type="email" th:field="*{email}" required/><br>
    <label>Employee Location:</label>
   <input type="text" th:field="*{location}" required/><br>
    <button type="submit">Submit
</fo ● // 臺 :
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</html>
```

Run:

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======|_|======|___/=/_/_/
:: Spring Boot ::
2025-09-19T19:44:00.696+05:30 INFO 15552 --- [demo-employee-mongo-db] [
                                                                 main] c.e.d.DemoEmployeeMongoDbApplication : Starting DemoEmployeeMongoDbApplication
using Java 24.0.2 with PID 15552 (C:\Users\mrwis\Downloads\java program and learn and trianing doc\demo-employee-mongo-db\target\classes started by mrwis in
C:\Users\mrwis\Downloads\java program and learn and trianing doc\demo-employee-mongo-db)
main] c.e.d.DemoEmployeeMongoDbApplication : No active profile set, falling back to
 default profile: "default"
main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data MongoDB
repositories in DEFAULT mode.
2025-09-19T19:44:02.409+05:30 INFO 15552 --- [demo-employee-mongo-db] [
                                                                 main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning
 in 102 ms. Found 1 MongoDB repository interface.
main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8080 (http)
2025-09-19T19:44:03.262+05:30 INFO 15552 --- [demo-employee-mongo-db] [
                                                                 main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache
Tomcat/10.1.43]
main] o.a.c.c.C.[Tomcat].[localhost].[/]
                                                                                                     : Initializing Spring embedded
WebApplicationContext
main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext:
initialization completed in 2451 ms
2025-09-19T19:44:03.749+05:30 INFO 15552 --- [demo-employee-mongo-db] [
                                                                 main] org.mongodb.driver.client
                                                                                                     : MongoClient with metadata {"driver":
{"name": "mongo-java-driver|sync|spring-boot", "version": "5.5.1"}, "os": {"type": "Windows", "name": "Windows 11", "architecture": "amd64", "version": "10.0"},
```