

Spring Boot 整合 MongoDB

- 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
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.southwind</groupId>
  <artifactId>35</artifactId>
  <version>1.0-SNAPSHOT</version>

  <parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>2.0.7.RELEASE</version>
  </parent>

  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-thymeleaf</artifactId>
    </dependency>

    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-data-mongodb</artifactId>
    </dependency>

    <dependency>
      <groupId>org.projectlombok</groupId>
      <artifactId>lombok</artifactId>
      <version>1.18.6</version>
      <scope>provided</scope>
    </dependency>
  </dependencies>

</project>
```

- application.yml

```
server:
  port: 8080
spring:
  thymeleaf:
    prefix: classpath:/templates/
    suffix: .html
    encoding: UTF-8
  data:
    mongodb:
      uri: mongodb://127.0.0.1:12345/dbname
```

- Student

```
package com.southwind.entity;

import lombok.Data;
import org.springframework.data.annotation.Id;
import org.springframework.data.mongodb.core.mapping.Document;
import org.springframework.data.mongodb.core.mapping.Field;

import java.util.Date;

@Document
@Data
public class Student {
    @Id
    private String id;
    @Field
    private String name;
    @Field
    private int age;
    @Field(value = "a_time")
    private Date addTime;
}
```

- StudentRepository

```

package com.southwind.repository;

import com.southwind.entity.Student;
import org.springframework.data.repository.CrudRepository;

import java.util.List;

public interface StudentRepository extends CrudRepository<Student,String> {
    public List<Student> findAll();
}

```

- HelloHandler

```

package com.southwind.controller;

import com.southwind.entity.Student;
import com.southwind.repository.StudentRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;

import java.util.Date;

@Controller
@RequestMapping("/hello")
public class HelloHandler {

    @Autowired
    private StudentRepository studentRepository;

    @GetMapping("/index")
    public ModelAndView index(){
        ModelAndView modelAndView = new ModelAndView();
        modelAndView.setViewName("index");
        modelAndView.addObject("list",studentRepository.findAll());
        return modelAndView;
    }

    @GetMapping("/redirect/{name}")
    public String redirect(@PathVariable String name){
        return name;
    }

    @PostMapping("/save")

```

```
public String save(Student student){
    student.setAddTime(new Date());
    studentRepository.save(student);
    return "redirect:/hello/index";
}
}
```

- html

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org"></html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Title</title>
</head>
<body>
    <h1>学生信息</h1>
    <table>
        <tr>
            <th>学生编号</th>
            <th>学生学号</th>
            <th>学生姓名</th>
            <th>学生年龄</th>
            <th>入学日期</th>
        </tr>
        <tr th:each="student,stat:${list}">
            <td th:text="${stat.count}"></td>
            <td th:text="${student.id}"></td>
            <td th:text="${student.name}"></td>
            <td th:text="${student.age}"></td>
            <td th:text="${student.addTime}"></td>
        </tr>
    </table>
    <a href="/hello/redirect/add">添加学员</a>
</body>
</html>
```