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《Spring Boot 基础教程》 第18节

使用 NoSQL 数据库-mongodb

安装: mongodb 下载链接: https://www.mongodb.com/download-center#community

```
下载版本: mongodb-win32-x86_64-2008plus-ss1-3.2.9-signed.msi 安装出现 2502、2503 错误解决办法:
```

 $\underline{\texttt{http://jingyan.baidu.com/article/a501d80cec07daec630f5e18.html}}$

```
启动命令: mongod.exe --dbpath d:\roncoo_mongodb\
```

```
指定路径: --dbpath
注: 要先创建文件夹
```

一、添加依赖

二、配置文件:

```
# MONGODB (MongoProperties)
spring. data. mongodb. uri=mongodb://localhost/test
spring. data. mongodb. port=27017
#spring. data. mongodb. authentication-database=
#spring. data. mongodb. database=test
#spring. data. mongodb. field-naming-strategy=
#spring. data. mongodb. grid-fs-database=
#spring. data. mongodb. host=localhost
#spring. data. mongodb. password=
#spring. data. mongodb. repositories. enabled=true
#spring. data. mongodb. username=
```

三、代码

```
/**
  * @author wujing
  */
@Component
public class RoncooMongodbComponent {
  @Autowired
  private MongoTemplate mongoTemplate;
  public void insert(RoncooUser roncooUser) {
      mongoTemplate.insert(roncooUser);
}
```







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```
public void deleteById(int id) {
            Criteria criteria = Criteria. where ("id"). in (id);
            Query query = new Query(criteria);
            mongoTemplate.remove(query, RoncooUser.class);
        public void updateById(RoncooUser roncooUser) {
            Criteria criteria = Criteria.where("id").in(roncooUser.getId());
            Query query = new Query(criteria);
            Update update = new Update();
            update.set("name", roncooUser.getName());
            update.set("createTime", roncooUser.getCreateTime());
            mongoTemplate.updateMulti(query, update, RoncooUser.class);
        public RoncooUser selectById(int id) {
            Criteria criteria = Criteria. where ("id"). in (id);
            Query query = new Query(criteria);
            return mongoTemplate.findOne(query, RoncooUser.class);
设置日志打印:
   <logger name="org.springframework.data.mongodb.core.MongoTemplate" level="debug"/>
@Autowired
   private RoncooMongodbComponent roncooMongodbComponent;
    @Test
    public void set() {
        RoncooUser roncooUser = new RoncooUser();
        roncooUser.setId(1);
        roncooUser.setName("无境1");
        roncooUser.setCreateTime(new Date());
        roncooMongodbComponent.insert(roncooUser);
    }
    @Test
    public void select() {
    System.out.println(roncooMongodbComponent.selectById(1));
```





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```
@Test
   public void update() {
       RoncooUser roncooUser = new RoncooUser();
       roncooUser.setId(1);
       roncooUser.setName("测试修改");
       roncooUser.setCreateTime(new Date());
       roncooMongodbComponent.updateById(roncooUser);
   System.out.println(roncooMongodbComponent.selectById(1));
   @Test
   public void delete() {
       roncooMongodbComponent.deleteById(1);
    }
四、使用: MongoRepository
import org. springframework. data. domain. Page;
import org. springframework. data. domain. Pageable;
import org.springframework.data.mongodb.repository.MongoRepository;
import com. roncoo. example. bean. RoncooUserLog;
public interface RoncooUserLogMongoDao extends MongoRepository<RoncooUserLog, Integer>{
   RoncooUserLog findByUserName(String string);
   RoncooUserLog findByUserNameAndUserIp(String string, String ip);
   Page < RoncooUserLog > findByUserName (String string, Pageable pageable);
测试
   @Autowired
   private RoncooUserLogMongoDao roncooUserLogMongoDao;
   @Test
   public void insert() {
       RoncooUserLog entity = new RoncooUserLog();
       entity.setId(1);
       entity.setUserName("无境");
       entity.setUserIp("192.168.0.1");
       entity.setCreateTime(new Date());
```





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```
roncooUserLogMongoDao.save(entity);
   }
   @Test
   public void delete() {
       roncooUserLogMongoDao.delete(1);
   }
   @Test
   public void update() {
       RoncooUserLog entity = new RoncooUserLog();
       entity.setId(1);
       entity.setUserName("无境2");
       entity.setUserIp("192.168.0.1");
       entity.setCreateTime(new Date());
       roncooUserLogMongoDao.save(entity);
   @Test
   public void select() {
       RoncooUserLog result = roncooUserLogMongoDao.findOne(1);
       System.out.println(result);
   }
   @Test
   public void select2() {
       RoncooUserLog result = roncooUserLogMongoDao.findByUserName("
无境2");
       System.out.println(result);
   }
   // 分页
   @Test
   public void queryForPage() {
       Pageable pageable = new PageRequest(0, 20, new Sort(new
Order(Direction.DESC, "id")));
       // Page<RoncooUserLog> result =
roncooUserLogDao.findByUserName("无境2", pageable);
       Page<RoncooUserLog> result =
roncooUserLogMongoDao.findAll(pageable);
       System.out.println(result.getContent());
   }
```





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五、使用嵌入式的 mongo

<dependency>

<groupId>de. flapdoodle. embed</groupId>
<artifactId>de. flapdoodle. embed. mongo</artifactId>

</dependency>

注意:

1. 加入嵌入式的 mongo 之后,首次启动会进行下载,时间会比较久,请耐心等待

```
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [54] -| Download 3.2.2:Windows:B64 : Starting...
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [59] -| Download 3.2.2:Windows:B64 : DownloadSize: 148367823
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : O %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : O %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : 20 %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : 30 %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : 40 %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : 50 %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : 70 %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : 80 %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : 70 %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : 90 %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : 90 %
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : downloadd with 285kb/s
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : downloadd with 285kb/s
org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Download 3.2.2:Windows:B64 : downloadd with 285kb/s
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org.springframework.boot.autoconfigure.mongo.embedded.EmbeddedMongo [42] -| Down
```

2. 下载完成,启动之后,默认情况下数据会在内存里面,重启会丢失

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