

Date : 03/04/2021  
Spring Boot 9AM  
Mr. RAGHU

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Spring boot + MongoDB Basic Example

S#1. Create Spring Boot Project  
Name: SpringBoot2MongoDbFirstEx  
Dep : lombok, Spring Data MongoDB

S#2 application.properties

```
spring.data.mongodb.host=localhost  
spring.data.mongodb.port=27017  
#If given DB not exist, auto-created  
spring.data.mongodb.database=nit  
#spring.data.mongodb.username=  
#spring.data.mongodb.password=
```

S#3 Model class

\*) ID-PK(Auto-Generated, Hexa Decimal value, String DataType)

```
package in.nareshit.raghu.model;  
  
import org.springframework.data.annotation.Id;  
import org.springframework.data.mongodb.core.mapping.Document;  
  
import lombok.AllArgsConstructor;  
import lombok.Data;  
import lombok.NoArgsConstructor;  
import lombok.NonNull;  
import lombok.RequiredArgsConstructor;  
  
@Data  
@NoArgsConstructor  
@AllArgsConstructor  
@RequiredArgsConstructor  
//@Document(collection = "booksdata")  
@Document  
public class Book {  
  
    @Id  
    private String id;  
  
    @NonNull  
    private Integer bookId;  
    @NonNull  
    private String bookName;  
    @NonNull  
    private String bookAuthor;  
    @NonNull  
    private Double bookCost;  
}
```

\*) @Id (is not from Data JPA) indicates PK variable.

Variable name recommended is 'id' and datatype is 'String'

S#4 Repository Interface

```
package in.nareshit.raghu.repo;
```

```
import org.springframework.data.mongodb.repository.MongoRepository;
```

```
import in.nareshit.raghu.model.Book;
```

```
public interface BookRepository
    extends MongoRepository<Book, String> {

}
```

S#5 Runner class

```
package in.nareshit.raghu.runner;
```

```
import java.util.List;
```

```
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.boot.CommandLineRunner;
```

```
import org.springframework.stereotype.Component;
```

```
import in.nareshit.raghu.model.Book;
```

```
import in.nareshit.raghu.repo.BookRepository;
```

```
@Component
```

```
public class MyDataRunner implements CommandLineRunner {
```

```
    @Autowired
```

```
    private BookRepository repo;
```

```
    public void run(String... args) throws Exception {
```

```
        repo.save(new Book(2505, "Spring Boot", "SAM",
500.0));
```

```
        repo.save(new Book(2506, "Microservices", "SYED",
600.0));
```

```
        repo.save(new Book(2507, "Angular 10.x", "RAM",
800.0));
```

```
        List<Book> list = repo.findAll();
```

```
        list.forEach(System.out::println);
```

```
    }
```

```
}
```

S#6 start mongodb server (mongod)

run starter class

goto mongo client (mongo)

execute commands

> use nit

> show collections

> db.book.find().pretty();

=====

\*) ConnectException: Connection refused: connect

First Start Mongo Server(mongod) then run application

