

Lab Exercise 7**Software Engineering - Year - 3****Semester 1, 2018**

Lab Session: SpringBoot

Objective: Learn how to connect to a mongoDB server and how to use HTTP methods to retrieve data as a REST service.

1. Create a model class named Greeting with id and content fields in the model package.
2. Create a GET method to respond with Greeting model. Id field should contain a random or an incremental value. (Use POSTMAN to test the implemented method).
3. Update the method to accept a query parameter “name” and response with the content “Hello, <<name provided>>”. Set a default value also when the request doesn’t contain the name field.
4. Add a service class named GreetingServiceImpl and use the service to generate the message and call to the class through an interface in the controller.
5. Changing the server port. Add a properties file named application.properties to the application under the directory `src -> main -> resources`. Add the content as following;
`server.port=8081`
6. Setting up MongoDB.
 - Add the dependency

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

- Create a model class named Comment with two fields ID and message.
- Implement the repository interface.
- Add the controller method for saving a Comment object

- Create the ServiceImpl class for the Comments.

7. Specifying the database name.

```
#spring.data.mongodb.host=localhost  
#spring.data.mongodb.port=27017  
spring.data.mongodb.database=my-app
```