

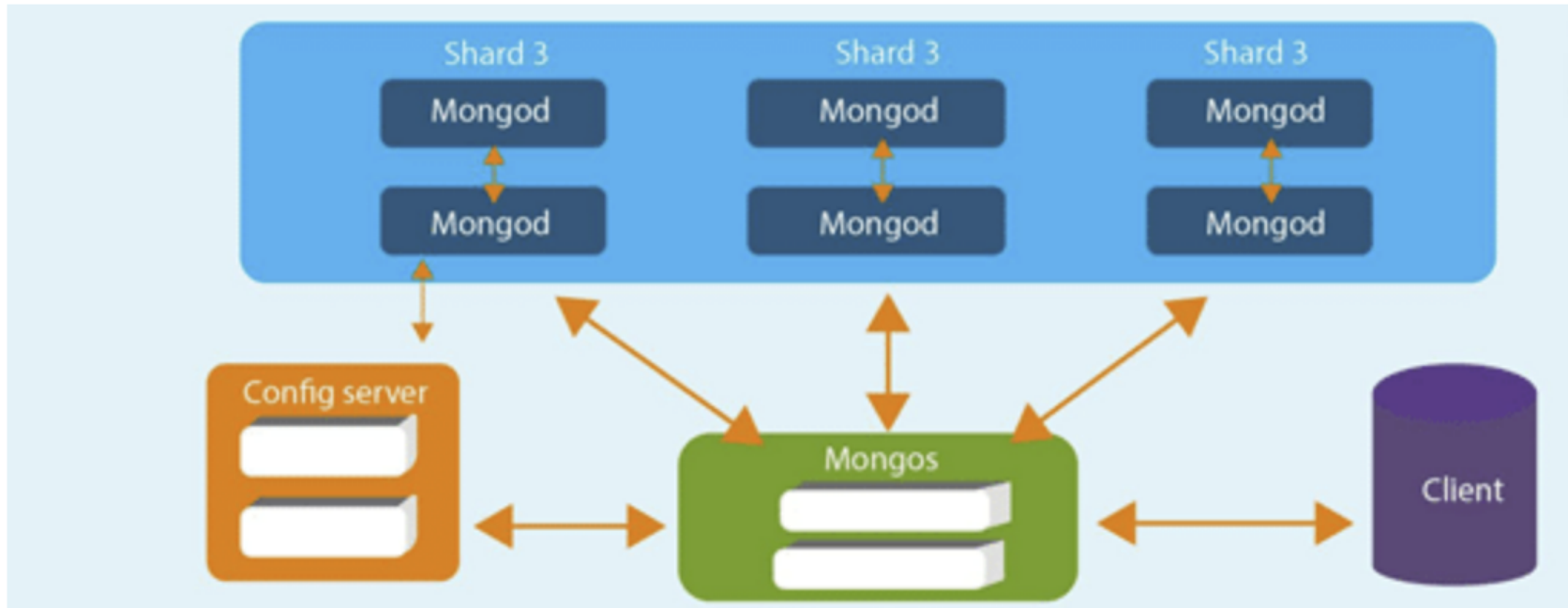


Springboot With Database



Classified as a [NoSQL](#) database program, MongoDB uses [JSON](#)-like documents with optional [schemas](#). MongoDB is developed by [MongoDB Inc.](#)

Architectural style



Code Deep Dive



```

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

```

```

import org.springframework.data.mongodb.repository.MongoRepository;
import org.springframework.stereotype.Repository;
@Repository
public interface CustomerRepository extends MongoRepository<Customer, String>{

    public Customer findByName(String name);
    public Customer findBycustId(String custId);
    public void deleteByname(String name);
    public Customer save(Customer customer);

}

```

```
version: '3'
services:
  mongo:
    image: mongo:3.4.7
    ports:
      - "27017:27017"
  app:
    image: falcon007/mongo-spring-data:latest
    links:
      - mongo
    environment:
      spring.data.mongodb.uri: mongodb://mongo:27017/data
    ports:
      - "8083:8083"
volumes:
  installation:
    external: false
```

#Build

```
mvn clean install
```

Run

```
docker-compose -f docker-compose-mongo.yml up -d
```

```
mvn spring-boot:run
```

training

```
Post:http://localhost:8080/customer/create?name=shanker&custId=12&address=bangalore
```

```
Get Read all:http://localhost:8080/customer/read
```

```
Delete by name:http://localhost:8080/customer/delete?name=shanker
```

```
{  
  "name": "Rama",  
  "custId": "1re206",  
  "address": "Bangalore"  
}
```

#Show data::

```
docker exec -it day3_mongo_1 bash
```

```
mongo
```

```
show dbs
```

```
show tables
```

```
db.customer.find()
```


Lab4:Create Your first mongo project

Create a springboot project which store the message data in to mongo db

Input:

Auto message communication :

Message: to,from,content,corelationid(uuid)

Operation:

Get

Post

Put

Delete

Run and test through curl and postman

Spring boot with mysql



Code Deep Dive



```
<dependencies>
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-data-jpa</artifactId>
  </dependency>
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
  </dependency>
  <dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
  </dependency>
```

Tag name: **artifactId**

```
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.Id;
```

```
@Entity
```

```
public class Users {
```

```
    @Id
```

```
    @GeneratedValue
```

```
    @Column(name = "id")
```

```
    private Integer id;
```

```
    @Column(name = "name")
```

```
    private String name;
```

```
    @Column(name = "team_name")
```

```
    private String teamName;
```


```
    @Column(name = "salary")
```


```
    private Integer salary;
```


```
    public Users() {
```

```
    }
```


```
import com.rama.db.model.Users;  
import org.springframework.data.repository.CrudRepository;  
  
public interface UsersRepository extends CrudRepository<Users, Integer> {  
}
```


 spring:



 datasource:

 url: jdbc:mysql://\${MYSQL_HOST:localhost}:3306/db

 username: user

 password: password

 jpa:

  hibernate.ddl-auto: update

```
version: '3.3'
services:
  mysql-db:
    image: mysql:5.7
    restart: always
    environment:
      MYSQL_DATABASE: 'db'
      # So you don't have to use root, but you can if you like
      MYSQL_USER: 'user'
      # You can use whatever password you like
      MYSQL_PASSWORD: 'password'
      # Password for root access
      MYSQL_ROOT_PASSWORD: 'password'
    ports:
      # <Port exposed> : <MySQL Port running inside container>
      - '3306:3306'
    expose:
      # Opens port 3306 on the container
      - '3306'
      # Where our data will be persisted
    volumes:
      - my-db:/var/lib/mysql
      # Names our volume
volumes:|
  my-db:
```

POST

http://localhost:8080/user/create

Params

Send

Authorization

Headers (1)

Body

Pre-request Script

Tests

form-data

x-www-form-urlencoded

raw

binary

JSON (application/json)

```
1 {
2   "name": "Rana",
3   "team_name": "alpha",
4   "salary": 23000
5 }
6
```

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Pretty

Raw

Preview

Text

```
1 saved
```

GET

http://localhost:8080/user/read

Params

Send

Authorization

Headers

Body

Pre-request Script

Tests

Type

No Auth

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Pretty

Raw

Preview

JSON

```
1 [
2   {
3     "id": 1,
4     "name": "Rana",
5     "teamName": null,
6     "salary": 23000
7   }
8 ]
```

Create Springboot microservice with mysql

Create a springboot project which store the message data in to mysql db

Input:

Auto message communication :

Message: to,from,content,corelationid(uuid)

Operation:

Get

Post

Put

Delete

Run and test through curl and postman

Create the docker image for both application and test with database.

THANKS !