HashAgile

Task 2: Elasticsearch using SpringBoot.

Created a index for the Employee dataset.

Coding:

```
z
∃# import org.springframework.data.elasticsearch.repository.ElasticsearchRepository;[]
       public interface EmployeeRepository extends ElasticsearchRepository<Employee, String> {
}
                                                                                                                                                           5* import org.springframework.beans.factory.annotation.Autowired;
                                                                                                                                                              @Service
public class EmployeeService {
                                                                                                                                                                   @Autowired 
private EmployeeRepository employeeRepository;
                                                                                                                                                                   public Iterable<Employee> getEmplyee()
                                                                                                                                                                        return employeeRepository.findAll():
                                                                                                                                                                     public Employee insertEmpl(Employee employee)
                                                                                                                                                                        return employeeRepository.save(employee);
                                                                                                                                                                      ublic Employee updateemp(Employee employee,String id)
                                                                                                                                                                        Employee emp=employeeRepository.findById(id).get();
emp.setAge(employee.getAge());
return emp;
                                                                                                                                                                   public void deleteemp(String id)
{
                                                                                                                                                                        employeeRepository.deleteById(id);
                                                                                                                                                 Writable
                                                                                                                                                                               Smart Insert
① Employee.java ×

1 package com.Hashagile.Task2.model;

☑ EmployeeController.java ×
                                                                                                                                                              1 package com.Hashagile.Task2.controller;
                                                                                                                                                                import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
impi org.springframework.web.bind.annotation
impi
       *import org.springframework.data.annotation.Id;
        @Document(indexName = "employees")
public class Employee {
        public class Employee {

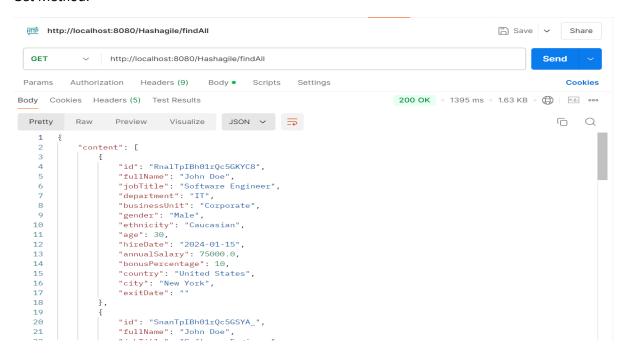
private String id;
private String fullName;
private String fullName;
private String bobitle;
private String department;
private String department;
private String department;
private String department;
private String cander;
private String harbate;
private double annual Salary;
private int bomusPercentage;
private String country;
private String country;
private String country;
private String city;
private String city;
                                                                                                                                                                imp Annotations for binding requests to controllers and handler methods as well as for binding request parameters to method arguments.
                                                                                                                                                                @RestController
@RequestMapping("/Hashagile")
public class EmployeeController {
                                                                                                                                                                       @Autowired 
private EmployeeService employeeService;
                                                                                                                                                                       @GetMapping("/findAll")
Iterable<Employee> findall()
                                                                                                                                                                           return employeeService.getEmplyee();
             @PostMapping("/insert")
public Employee insertemp(@RequestBody Employee employee)
{
                                                                                                                                                                           return employeeService.insertEmpl(employee);
                                                                                                                                                                      }
@DeleteMapping("/delete/(id}")
public void deleteEmployee(@PathVariable String id) {
    employeeService.deleteemp(id);
```

ElasticSearch running in console:

```
[2824-10-03780:46:86,580][NFO][o.e.t.n.NettyAllocator | [HPVICTUSHK] creating NettyAllocator with the following configs: [name=elasticsearch_configured_chunk_size=lmb, suggested_max_allocation_size=lmb, factors=[es.unsafe.use_netty_default_chunk_and_page_size=false, glgc_enabled=true, glgc_region_size=4mb] | [HPVICTUSHK] consider | [HPVICTUSHK] [INFO][o.e.n. Object=100 | [HPVICTUSHK] [INFO][o.e.n. Node | [HPVIC
```

Console:

Get Method:



Post Method:

```
POST
                   http://localhost:8080/Hashagile/insert
                                                                                                                                                                                       Send
Params
               Authorization Headers (9) Body • Scripts
                                                                                                                                                                                               Cookies
 \bigcirc none \bigcirc form-data \bigcirc x-www-form-urlencoded \bigcirc raw \bigcirc binary \bigcirc GraphQL \bigcirc JSON \checkmark
                                                                                                                                                                                             Beautify
               "id": "er2305",
              "id": "er2305",
"fullName": "Kai Le",
"jobTitle": "Controls Engineer",
"department": "Engineering",
"businessUnit": "Manufacturing",
"gender": "Male",
"ethnicity": "Asian",
"see": 47
     3
     4
     8
              "age": 47,
"hireDate": "02-05-2022",
   10
               "annualSalary": 92368,
"bonusPercentage": 0,
   11
   12
               "country": "United States",
"city": "Columbus",
"exitDate":null
   14
   15
   16
```

Search using Match query:

