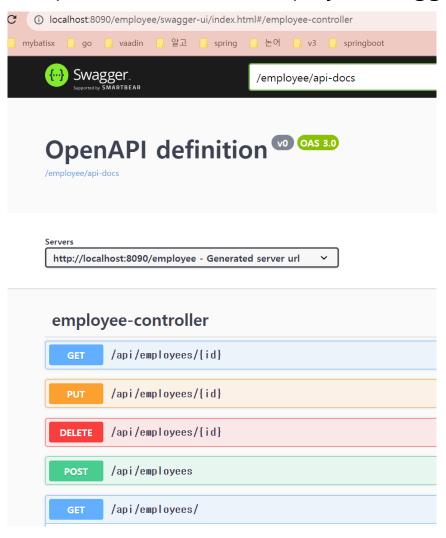
swagger

http://localhost:8090/employee/swagger-ui/index.html



```
http://localhost:8090/employee/api/employees/
   "id": 1,
   "name": "hyo",
   "phone": "010-1234-1234",
   "email": "hyo@naver.com",
    "position": "it",
    "bio": "java fluent, db fluent"
   "name": "kang",
    "phone": "010-1234-1235",
   "email": "kang@naver.com",
   "position": "it",
    "bio": "java fluent, db fluent, math fluent"
```

swagger

Methods	Urls	Actions
POST	/api/tutorials	create new Tutorial
GET	/api/tutorials	retrieve all Tutorials
GET	/api/tutorials/:id	retrieve a Tutorial by :id
PUT	/api/tutorials/:id	update a Tutorial by :id
DELETE	/api/tutorials/:id	delete a Tutorial by :id
DELETE	/api/tutorials	delete all Tutorials
GET	/api/tutorials/published	find all published Tutorials
GET	/api/tutorials?title=[keyword]	find all Tutorials which title contain s keyword

```
<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>com.mysql</groupId>
<artifactId>mysql-connector-j</artifactId>
<scope>runtime</scope>
</dependency>
<dependency>
<groupId>org.projectlombok</groupId>
<artifactId>lombok</artifactId>
<optional>true</optional>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-test</artifactId>
<scope>test</scope>
</dependency>
</dependencies>
```

server.servlet.context-path=/employee

Hibernate

server.port=8090

```
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.datasource.url=jdbc:mysql://localhost:3306/jwtspring?useUnicode=true&serverTimezone=Asia/Seoul&char
acterEncoding=utf8
spring.datasource.username=ssafy
spring.datasource.password=ssafy
```

```
spring.jpa.database=mysql

spring.jpa.properties.hibernate.format_sql=true

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQLDialect

spring.jpa.hibernate.ddl-auto=update

spring.jpa.show-sql: true

spring.jpa.hibernate.naming.strategy=org.hibernate.cfg.ImprovedNamingStrategy

spring.jpa.hibernate.naming.physical-

strategy=org.hibernate.boot.model.naming.PhysicalNamingStrategyStandardImpl
```

logging.level.com.zaxxer.hikari.HikariConfig=DEBUG logging.level.com.zaxxer.hikari=TRACE

spring.main.allow-circular-references=true

```
package com.howtodoinjava.app.entity;
import jakarta.persistence.*;
@Entity
public class Employee {
@Id
@GeneratedValue(strategy = GenerationType. IDENTITY)
private Long id;
private String name;
private String phone;
private String email;
private String position;
@Column(length = 1000)
private String bio;
```

```
package com.howtodoinjava.app.repository;
import com.howtodoinjava.app.entity.Employee;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;

@Repository
public interface EmployeeRepository extends JpaRepository < Employee, Long > {
```

```
package com.howtodoinjava.app.service;
import com.howtodoinjava.app.entity.Employee;
import com.howtodoinjava.app.repository.EmployeeRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;
import java.util.Optional;
public interface EmployeeService {
 List<Employee> getAllEmployees();
 Optional < Employee > getEmployeeById(Long id);
 Employee addEmployee(Employee employee);
 Optional < Employee > update Employee (Long id, Employee employee) ;
 void deleteEmployee(Long id) ;
```

```
package com.howtodoinjava.app.service;
import com.howtodoinjava.app.entity.Employee;
import com.howtodoinjava.app.repository.EmployeeRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;
import java.util.Optional;
@Service
public class EmployeeServiceImpl implements EmployeeService{
 @Autowired
 private EmployeeRepository employeeRepository;
 public List<Employee> getAllEmployees() {
  return employeeRepository.findAll();
```

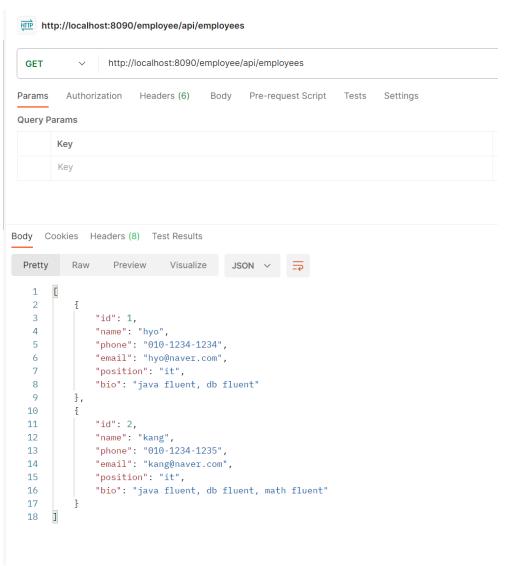
```
public Optional < Employee > getEmployeeById(Long id) {
 return employeeRepository.findById(id);
public Employee addEmployee(Employee employee) {
 return employeeRepository.save(employee);
public Optional < Employee > updateEmployee(Long id, Employee employee) {
 Optional < Employee > existing Employee = employee Repository.find ById(id);
 if (existingEmployee.isPresent()) {
  Employee updatedEmployee = existingEmployee.get();
  updatedEmployee.setName(employee.getName());
  updatedEmployee.setPhone(employee.getPhone());
  updatedEmployee.setEmail(employee.getEmail());
  updatedEmployee.setPosition(employee.getPosition());
  updatedEmployee.setBio(employee.getBio());
  employeeRepository.save(updatedEmployee);
 return existingEmployee;
public void deleteEmployee(Long id) {
 employeeRepository.deleteById(id);
```

```
package com.howtodoinjava.app.web;
import com.howtodoinjava.app.entity.Employee;
import com.howtodoinjava.app.service.EmployeeService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.*;
import java.net.URI;
import java.util.List;
import java.util.Optional;
//http://localhost:8090/employee/api/users
@RestController
@RequestMapping("/api/employees")
@CrossOrigin
public class EmployeeController {
 @Autowired
 private EmployeeService employeeService;
 @GetMapping("/")
 public List<Employee> getAllEmployees() {
  return employeeService.getAllEmployees();
```

```
@GetMapping("/{id}")
public ResponseEntity < Employee > getEmployeeById(@PathVariable Long id) {
 Optional < Employee > employee = employeeService.getEmployeeById(id);
 return employee.map(ResponseEntity::ok).orElseGet(() -> ResponseEntity.notFound().build());
@PostMapping
public ResponseEntity < Employee > addEmployee(@RequestBody Employee employee) {
 Employee savedEmployee = employeeService.addEmployee(employee);
 return ResponseEntity.created(URI.create("/api/employees/" + savedEmployee.getId())).body(savedEmployee);
@PutMapping("/{id}")
public ResponseEntity < Employee > updateEmployee (@PathVariable Long id,
                                  @RequestBody Employee employee) {
 Optional < Employee > existing Employee = employee Service.update Employee (id,
    employee);
 return existingEmployee.map(ResponseEntity::ok).orElseGet(() -> ResponseEntity.notFound().build());
@DeleteMapping("/{id}")
public ResponseEntity < Void > deleteEmployee(@PathVariable Long id) {
 employeeService.deleteEmployee(id);
 return ResponseEntity.noContent().build();
```

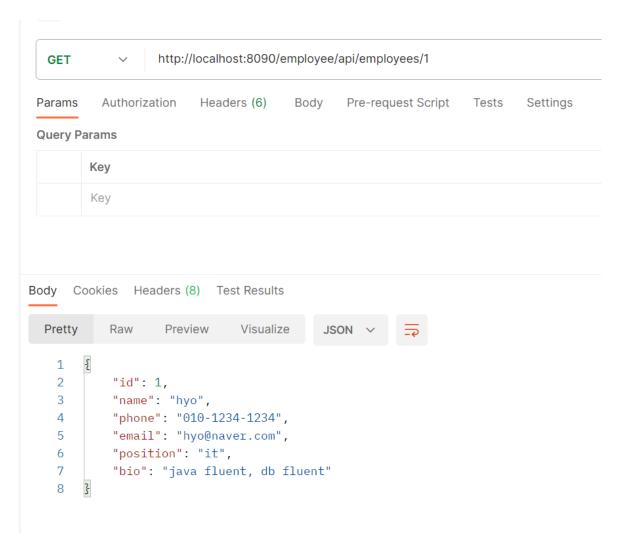
Hibernate

http://localhost:8090/employee/api/employees



Hibernate

http://localhost:8090/employee/api/employees/1

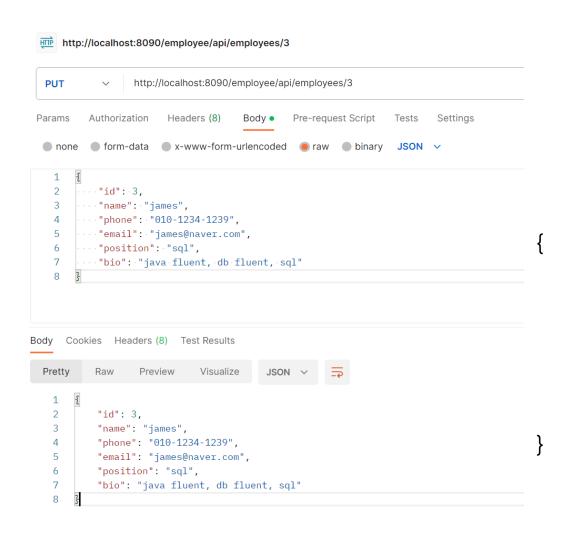


Hibernate

http://localhost:8090/employee/api/employees

```
http://localhost:8090/employee/api/employees
 POST
        Authorization
                      Headers (8)
                                            Pre-request Script
Params
                                   Body •
                                                              Tests
                                                                     Settings
         form-data x-www-form-urlencoded raw
                                                              JSON V
      ...."name": "james",
      phone": "010-1234-1238",
      "email": "james@naver.com",
      position": "it",
      bio": "java fluent, db fluent"
```

```
"name": "james",
"phone": "010-1234-1238",
"email": "james@naver.com",
"position": "it",
"bio": "java fluent, db fluent"
```



```
"id": 3,
"name": "james",
"phone": "010-1234-1239",
"email": "james@naver.com",
"position": "sql",
"bio": "java fluent, db fluent, sql"
```

properties

```
springdoc.api-docs.path=/api-docs
# http://localhost:8090/employee/swagger-ui/index.html
```

pom

```
<dependency>
<groupId>org.springdoc</groupId>
<artifactId>springdoc-openapi-starter-webmvc-ui</artifactId>
<version>2.2.0</version>
</dependency>
```