**Model:**

**Employee:**

**package** com.example.demo.model;

**import** com.example.demo.request.EmployeeRequest;

**import** jakarta.persistence.Entity;

**import** jakarta.persistence.GeneratedValue;

**import** jakarta.persistence.GenerationType;

**import** jakarta.persistence.Id;

**import** jakarta.persistence.JoinColumn;

**import** jakarta.persistence.OneToOne;

@Entity

**public** **class** Employee {

@Id

@GeneratedValue(strategy=GenerationType.***IDENTITY***)

**private** **int** id;

**private** String name;

@JoinColumn(name="department\_id")

@OneToOne

**private** Department department;

**public** Employee() {

**super**();

}

**public** Employee(EmployeeRequest request)

{

**this**.name=request.getName();

}

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** Department getDepartment() {

**return** department;

}

**public** **void** setDepartment(Department department) {

**this**.department = department;

}

@Override

**public** String toString() {

**return** "Employee [id=" + id + ", name=" + name + ", department=" + department + "]";

}

}

**Department:**

**package** com.example.demo.model;

**import** jakarta.persistence.Entity;

**import** jakarta.persistence.GeneratedValue;

**import** jakarta.persistence.GenerationType;

**import** jakarta.persistence.Id;

@Entity

**public** **class** Department {

@Id

@GeneratedValue(strategy=GenerationType.***IDENTITY***)

**private** **int** id;

**private** String name;

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

@Override

**public** String toString() {

**return** "Department [id=" + id + ", name=" + name + "]";

}

}

**Controller:**

**EmployeeController:**

**package** com.example.demo.controller;

**import** java.util.List;

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

**import** org.springframework.validation.annotation.Validated;

**import** org.springframework.web.bind.annotation.GetMapping;

**import** org.springframework.web.bind.annotation.PostMapping;

**import** org.springframework.web.bind.annotation.RequestBody;

**import** org.springframework.web.bind.annotation.RestController;

**import** com.example.demo.model.Department;

**import** com.example.demo.model.Employee;

**import** com.example.demo.repository.DepartmentRepo;

**import** com.example.demo.repository.EmployeeRepo;

**import** com.example.demo.request.EmployeeRequest;

@RestController

**public** **class** EmployeeController {

@Autowired

DepartmentRepo dRepository;

@Autowired

EmployeeRepo eRepository;

@PostMapping("/employee")

**public** Employee saveEmployee(@Validated @RequestBody EmployeeRequest eRequest)

{

Department department=**new** Department();

department.setName(eRequest.getDepartment());

department=dRepository.save(department);

Employee employee =**new** Employee(eRequest);

employee.setDepartment(department);

eRepository.save(employee);

**return** employee;

}

@GetMapping("/employee")

**public** List<Employee> getEmployees()

{

**return** eRepository.findAll();

}

@GetMapping("/department")

**public** List<Department> getDepartment()

{

**return** dRepository.findAll();

}

}

**Repository:**

**EmployeeRepository:**

**package** com.example.demo.repository;

**import** java.util.List;

**import** org.springframework.data.jpa.repository.JpaRepository;

**import** com.example.demo.model.Employee;

**public** **interface** EmployeeRepo **extends** JpaRepository<Employee,Integer>{

**public** List<Employee> findAll();

}

**DepartmentRepository:**

**package** com.example.demo.repository;

**import** java.util.List;

**import** org.springframework.data.jpa.repository.JpaRepository;

**import** com.example.demo.model.Department;

**public** **interface** DepartmentRepo **extends** JpaRepository<Department,Integer>{

**public** List<Department> findAll();

}

**Request:**

**EmployeeRequest:**

**package** com.example.demo.request;

**public** **class** EmployeeRequest {

**private** String name;

**private** String department;

**public** String getName()

{

**return** name;

}

**public** **void** setName(String name)

{

**this**.name=name;

}

**public** String getDepartment()

{

**return** department;

}

**public** **void** setDepartment(String department)

{

**this**.department=department;

}

}