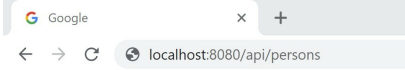


# javaSpring

승환 정 | January 12, 2022

클라이언트



```
[
  {
    id: 1,
    name: "paul",
    age: 21,
    address: "The USA"
  },
]
```

API  
(controller)

com.example.person  
controller  
PersonController

```
@GetMapping("/api/persons")
public List<Person> getPersons() {
    return personRepository.findAll();
}
```

models  
PersonRequestDto

```
public class PersonRequestDto {
    private String name;
    private int age;
    private String address;

    public PersonRequestDto(String name, int age, String address) {
        this.name = name;
        this.age = age;
        this.address = address;
    }
}
```

Service

service  
PersonService

```
@RequiredArgsConstructor
@Service
public class PersonService {
    private final PersonRepository personRepository;

    @Transactional
    public Long update(Long id, PersonRequestDto requestDto) {
        Person person1 = personRepository.findById(id).orElseThrow(
            () -> new IllegalArgumentException("해당 아이디가 존재하지 않습니다.")
        );
        person1.update(requestDto);
        return person1.getId();
    }
}
```

DTO

Entity

domain  
Person  
PersonRepository

```
@Entity
public class Person extends Timestamped {

    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private Long id;

    @Column(nullable = false)
    private String name;

    @Column(nullable = false)
    private int age;

    @Column(nullable = false)
    private String address;

    public Person(PersonRequestDto requestDto) {
        this.name = requestDto.getName();
        this.age = requestDto.getAge();
        this.address = requestDto.getAddress();
    }

    public void update(PersonRequestDto requestDto) {
        this.name = requestDto.getName();
        this.age = requestDto.getAge();
        this.address = requestDto.getAddress();
    }
}
```

Spring server

PersonApplication

```
public class PersonApplication {

    public static void main(String[] args) {
        SpringApplication.run(PersonApplication.class, args);
    }

    @Bean
    public CommandRunner runner(PersonRepository personRepository, PersonService personService) {
        return (args) -> {
            personRepository.save(new Person("paul", 20, address("home")));
            System.out.println("save OK");
            List<Person> personList = personRepository.findAll();
            for (int i = 0; i < personList.size(); i++) {
                PersonRequestDto requestDto = new PersonRequestDto("paul", 21, address("The USA"));
                personService.update(i, requestDto);
                personList = personRepository.findAll();
                for (int i = 0; i < personList.size(); i++) {
                    // ...
                }
            }
        };
    }
}
```

Repository  
(SQL)

domain  
Person  
PersonRepository

```
public interface PersonRepository extends JpaRepository<Person, Long> {
}
```

RDBMS  
(MySQL, H2)

resources  
static  
templates  
application.properties

```
spring.h2.console.enabled=true
spring.datasource.url=jdbc:h2:mem:homework
spring.jpa.show-sql=true
```