

Spring boot





Service

- The business layer contains all the business logic. It consists of services classes.
- Service Components are the class file which contains `@Service` annotation. These class files are used to write business logic in a different layer, separated from `@RestController` class file.
- `@Component`, `@Service`, `@Repository`.



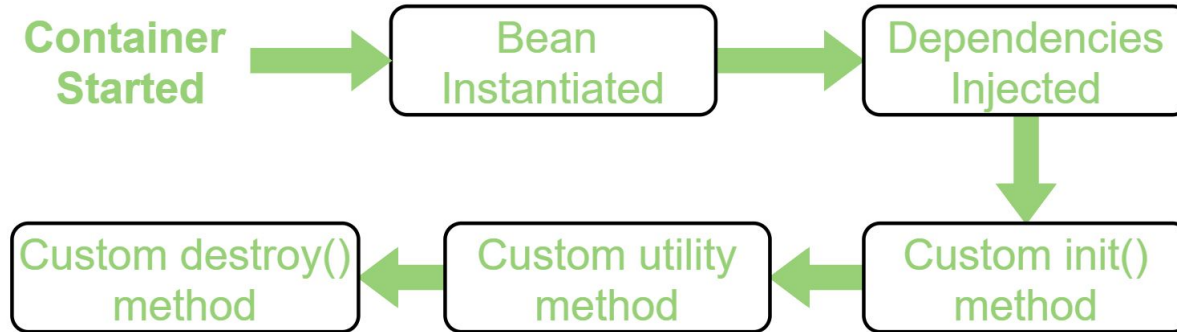
Practices

- Api tạo sản phẩm
- Giá nhập vào > 0
- Tên không được để trống , không quá 100 ký tự
- Tự sinh trường code theo quy tắc : `code = category_code.sku.created_at(yyyyMMdd)`
- status khi tạo mới có trạng thái active (active = 1, inactive = 0)
- `created_at` thời gian tạo, `modified_at` thay đổi.
- xóa update status active -> inactive



Bean Life Cycle

- The following image shows the process flow of the bean life cycle.





Bean Life Cycle

- Bean life cycle is managed by the spring container.
- The spring container gets started.
- The container creates the instance of a bean as per the request, and then dependencies are injected.
- The bean is destroyed when the spring container is closed.



Lombok

- [Project Lombok](#) is a java library tool that is used to remove the boilerplate code and save the precious time of developers during development by just using some annotations.
- It also increases the readability of the source code and saves space.
- @Getter, @Setter, @NoArgsConstructor, ...



Exception Handling

- `@ExceptionHandler`
- `ResponseStatusException`.
- `@RestControllerAdvice`.



Jackson

- Jackson is a suite of data-processing tools for Java. It allows to read and write data in JSON, Avro, BSON, CBOR, CSV, Smile, (Java) Properties, Protobuf, XML or YAML format.
- `@JsonProperty`, `@JsonIgnore`, `@JsonCreator` ...



DTO (Data Transfer Object)

- entity
- domain model
- dto



BTVN

- Sử dụng Dto
- Chuẩn hóa response của tất api theo 2 dạng.

```
{
  "success":true,
  "message":"",
  "data":[]
}
```

```
{
  "success":true,
  "message":"",
  "data":[
    {}
  ],
  "pagination":{
    "page":0,
    "page_size":10,
    "total":1000
  }
}
```



- Api tạo kho

- Kho tạo mới có trạng thái active.
- province_id, district_id do client truyền lên.
- address = address người dùng nhập, district_name, province_name.
- Xóa kho chuyển trạng thái status -> inactive