```
JSON - JAVA Mapping
```

```
Links ---
```

https://github.com/hong1234/Spring-Mvc-Data-Binding

https://springframework.guru/how-to-the-jackson-object-mapper-with-json/https://github.com/spring-framework-guru/spring-6-posts/tree/main/jackson-examples

https://attacomsian.com/blog/processing-json-spring-boot

https://medium.com/@vishamberlal/understanding-data-transfer-objects-dto-in-spring-boot-ac06b575a1d5

## Overview ---

```
Entity ---

ID Int or UUID
Lombok @Data

Field Validation @NotNull

related DB Tables // UUID storing support in DB

H2

MySQL

SPRING MVC ---

(Input-) Data Binding / Jackson Converter: @RequestBody Customer customer

Mapping JSON -> Entity // Reading Json - Deserialization with the Jackson ObjectMapper

Output-Data

Mapping Entity -> JSON

Entity Data Validating: @Valid

Exception Handling @RestControllerAdvice
```

## An Example -----

https://attacomsian.com/blog/processing-json-spring-boot

```
// customer.json
{
  "id": 123,
  "name": "Jovan Lee",
  "email": "jovan@example.com",
  "phone": "+49 176 14890478",
  "age": 32,

"address": {
  "street": "Yorckstr. 75",
  "city": "Berlin",
  "zipcode": 10965,
  "country": "Germany"
},
  "projects": [
```

```
"Remote Job Board",
  "Data Migration"
 ],
 "paymentMethods": [
  "PayPal",
  "Stripe"
 ],
 "profileInfo": {
  "gender": "Male",
  "married": "Yes",
  "source": "LinkedIn"
 }
}
// Customer.java
import java.util.Arrays;
import java.util.List;
import java.util.Map;
import lombok.Data;
@Data
public class Customer {
  private Long id;
  private String name;
  private String email;
  private String phone;
  private int age;
  private String[] projects;
  private Address address;
  private List<String> paymentMethods;
  private Map<String, Object> profileInfo;
}
// Address.java
@Data
public class Address {
  private String street;
  private String city;
  private int zipcode;
  private String country;
}
https://github.com/hong1234/Spring-Mvc-Data-Binding
```

```
// json request body
  "name":"Test",
  "cards": [
      "comment":"test1",
      "cardType":"HAPPY"
      "comment":"test2",
      "cardType":"SAD"
  ],
  "cards2": {
    "dc0168e1-e0c8-44c6-984c-e0537d77840e": {
        "comment":"test3",
        "cardType":"HAPPY"
    },
    "452e527f-0921-4972-aa0f-7e1a7a25263c" : {
        "comment":"test4",
        "cardType":"SAD"
    }
  }
}
@Data
public class RetroBoard {
  private UUID id;
  @NotBlank(message = "A name must be provided")
  private String name;
  // private Card card;
  private List<Card> cards = new ArrayList<>();
  private Map<UUID, Card> cards2 = new HashMap<>();
  // private Map<String, Card> cards = new HashMap<>();
}
@Data
public class Card {
  private UUID id;
  @NotBlank
  private String comment;
  @NotNull
  private CardType cardType;
  private UUID retroBoardId;
}
```