

# Spring Boot Microservices

Beginner to Guru

Overview of Using Jackson



#### **Common Jackson Annotations**

- @JsonProperty Allows you to set the property name
- @JsonFormat Gives you control over how property is serialized. (Helpful for dates)
- @JsonUnwrapped Allows you to flatten a property
- @JsonView Allows you to configure virtual 'views' of objects
- @JsonManagedReference, @JsonBackReference for mapping embedded items
- @JsonIdentityInfo Allows you to specify a property to determine object identity
- @JsonFilter Used to specify a programatic property filter





#### **Jackson Serialization Annotations**

- @JsonAnyGetter Takes a Map property and serializes the key to property names, values to values
- @JsonGetter Allows you to identify a method as a 'getter', which will be serialized into a property
- @JsonPropertyOrder Allows you to set the order of properties in the serialized JSON output
- @JsonRawValue Will serialize the string value of the property as is. Warning Can lead to invalid JSON.





#### **Jackson Serialization Annotations**

- @JsonValue Used to mark a method for the Serialization output. Will throw exception if more than one method is annotated. Warning: May produce invalid JSON.
- @JsonRootName Creates a root element for the object.
- @JsonSerialize Allows you to specify a custom serializer





#### **Jackson Deserialization Annotations**

- @JsonCreator Use identify the object constructor to use, and property binding
- @JacksonInject Allows you to inject values into properties using deserialization
- @JsonAnySetter Converts JSON object into a Java Map object, where property names are keys of the map.
- @JsonSetter Identifies a Java method to use as a setter for the identified JSON property.
- @JsonDeserialize Allows you to specify a custom deserializer





#### Other Jackson Annotations

- @JsonIgnoreProperties Class level annotation used to tell Jackson to ignore one or more property
- @JsonIgnore Field level annotation use to tell Jackson to ignore a property
- @JsonIgnoreType Class level annotation used to ignore class typically used to ignore class, where the class is a property in other classes.
- @JsonInclude Class level annotation used to control how null values are presented in serialization





#### Other Jackson Annotations

• @JsonAutoDetect - Jackson will use reflection in serialization. This annotation allows you to tune which properties / methods are detected.





### Jackson and Spring Boot

- Spring Boot will like most things, auto configure Jackson with 'sensible' defaults
- The Jackson object mapper accepts a large variety of properties which can be used to customize its behavior
- The majority of configuration values can be adjusted via configuration properties in application.properties.
- If needed, you can override Spring Boot and provide a custom definition of the Jackson Object mapper via a Spring Bean.





## SPRING FRAMEWORK

