



Spring Boot Microservices

Beginner to Guru

Overview of MapStruct



MapStruct

- MapStruct started in 2014, with the first release in 2017
- Founded by Gunnar Morling, who is the spec lead for Hibernate on Bean Validation 2.0
- Current release 1.3.0.Final - February, 2019
- MapStruct is a code generator for mapping between Java bean types
 - ie BeerDto -> Beer (Entity)
- Like Project Lombok, MapStruct hooks into annotation processing to generate code
- Unlike Project Lombok, MapStruct will generate source code



MapStruct

- MapStruct follows a convention over configuration approach
- MapStruct works by you declaring an interface, MapStruct generates the implementation
- Properties of the same name / same type will automatically get mapped
 - Huge time saver!
- Different property names are configured via annotation properties
- Different types can be referenced with additional mapper implementations
- If present, MapStruct will use builders



MapStruct

- Mappers can reference other mappers
 - ie an Order Mapper can use the Order Line Mapper
- Can be configured to annotate generated mappers as Spring Components
 - Useful for Dependency Injection with Spring
- Can use default methods on interfaces
- Complex mappings can be done via abstract classes

