

Spring Boot(camp)

Getting started for the real world



Spring-Boot in a Nutshell

```
Rob Winch
     @rob_winch
@Controller
class ThisWillActuallyRun {
  @RequestMapping("/")
  @ResponseBody
  String home() {
     "Hello World!"
```



SPRING INITIALIZR bootstrap your application now	
Generate a Maven Project with Spring Boot 1.3.3	
Project Metadata	Dependencies
Artifact coordinates	Add Spring Boot Starters and dependencies to your application
Group	Search for dependencies
com.senacor.springboot	Web, Security, JPA, Actuator, Devtools
Artifact	Selected Dependencies
helloworld	Rest Repositories × Jersey (JAX-RS) × H2 × JPA × Web ×
Generate F Don't know what to look for? Want more options? Switch to the full version.	Project # + ₽



Demo - Main Concepts

The beginning of everything

Application

The thing that Controller exposes Resources Repository access

The thing that handles Database

Entity The Resource



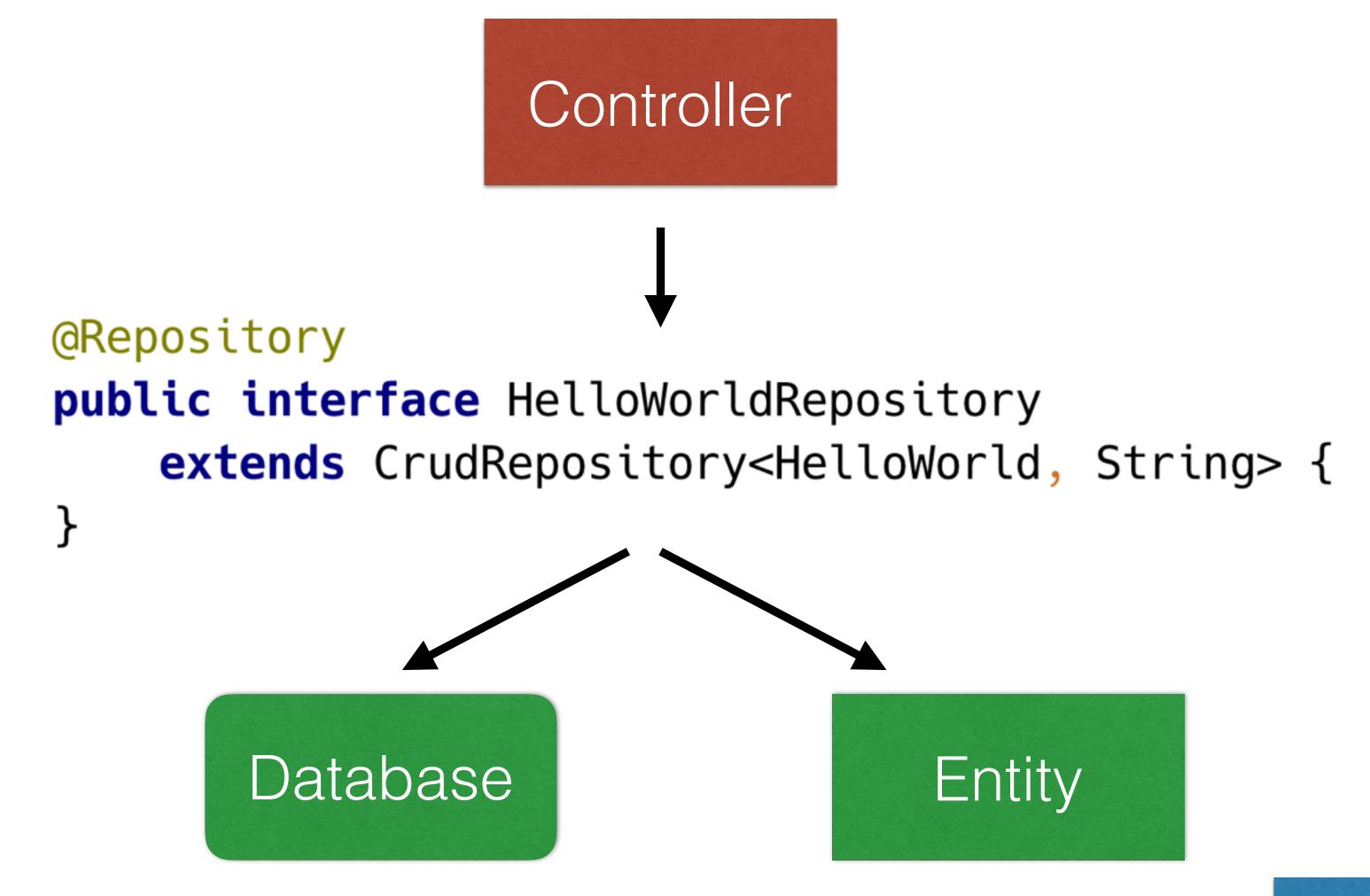
```
@SpringBootApplication
public class HelloworldApplication {
    public static void main(String[] args) {
        SpringApplication.run(HelloworldApplication.class, args);
    }
}
```



```
@Entity
public class HelloWorld {
    @Id
    @GeneratedValue
    @JsonIgnore
    private String id;
    // boilerplate...
        Database
```









\$ curl http://localhost:8080/helloworld/



```
@RestController
@RequestMapping(
    path = "helloworld",
    produces = APPLICATION_JSON_UTF8_VALUE)
public class HelloWorldController {
    @Inject
    private HelloWorldRepository helloWorldRepository;
```

Repository







```
$ curl http://localhost:8080/helloworld/1 {"id":"1","greeting":"Kosice="}

@RequestMapping(value = "'/{id}", method = GET)
public HelloWorld fetchOne(@PathVariable String id) {
    return helloWorldRepository.findOne(id);
}
```



```
curl -X POST -d 'Kosice'
                                          HTTP/1.1 201 Created
    http://localhost:8080/helloworld/
                                          {"greeting":"Kosice"}
   @RequestMapping(method = POST)
   public
   ResponseEntity<HelloWorld>
   createGreeting(@RequestBody String greeting) {
       HelloWorld world
           = helloWorldRepository.save(new HelloWorld(greeting));
       return new ResponseEntity<>(world, HttpStatus.CREATED);
```



Your Turn!



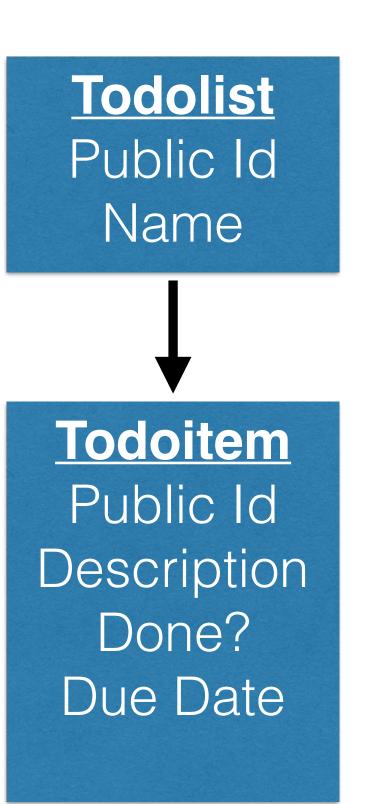
Building Boot-Todo

I want to create a new Todolist

I want to add a new Todoitem to a Todolist

I want to finish a Todoitem

I want to remove Todoitems from a Todollist





Building Boot-Todo

- Fetch Spring-Boot dependencies
- Create Todoitem and Todolist as Resources
- Create RestController and Repository for Todoitem Resource
- Create RestController and Repository for Todolist Resource
- Test it!



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THANK YOU!

