**Summary – Spring boot**

Spring boot is a simple way to bootstrap Spring application.

Spring common structure

controller -> service -> repository.

* Controllers are the “gate” of the application. It consists of annotated methods which are the root of the REST services. Controllers usually injected with services.
* Services are usually the middle layer that connects between controllers and repositories. Meaning, that they are responsible to activate repository operations based on the REST service that was called.
* Repositories are responsible to perform DB actions of CRUD.

Special annotations

* @RestController (annotates a class) – defines the controller
* @RequestMapping(method, value) (annotates a method) – defines the method that will be called when the REST service related to it will be called. Method parameter defines the type of the method of the REST service (GET, POST etc.). value parameter defines the path of the REST service.
* @RequestBody (annotates parameter) – defines the request object passed inside the REST service (not in GET method)
* @PathVariable (annotates parameter) – defines the path parameter passed in the REST service URI. For example: “/foos/{id}”
* @RequestParam (annotates parameter) – defines the query parameter passed in the REST service URI. For example: “/foos?id=abc”
* @Configuration (annotates a class) – defines a configuration class that will implement methods that will return beans when injected interfaces
* @ComponentScan({<package separated by commas>}) (annotates a class) – defines the Spring packages to scan for annotated components in a configuration class.