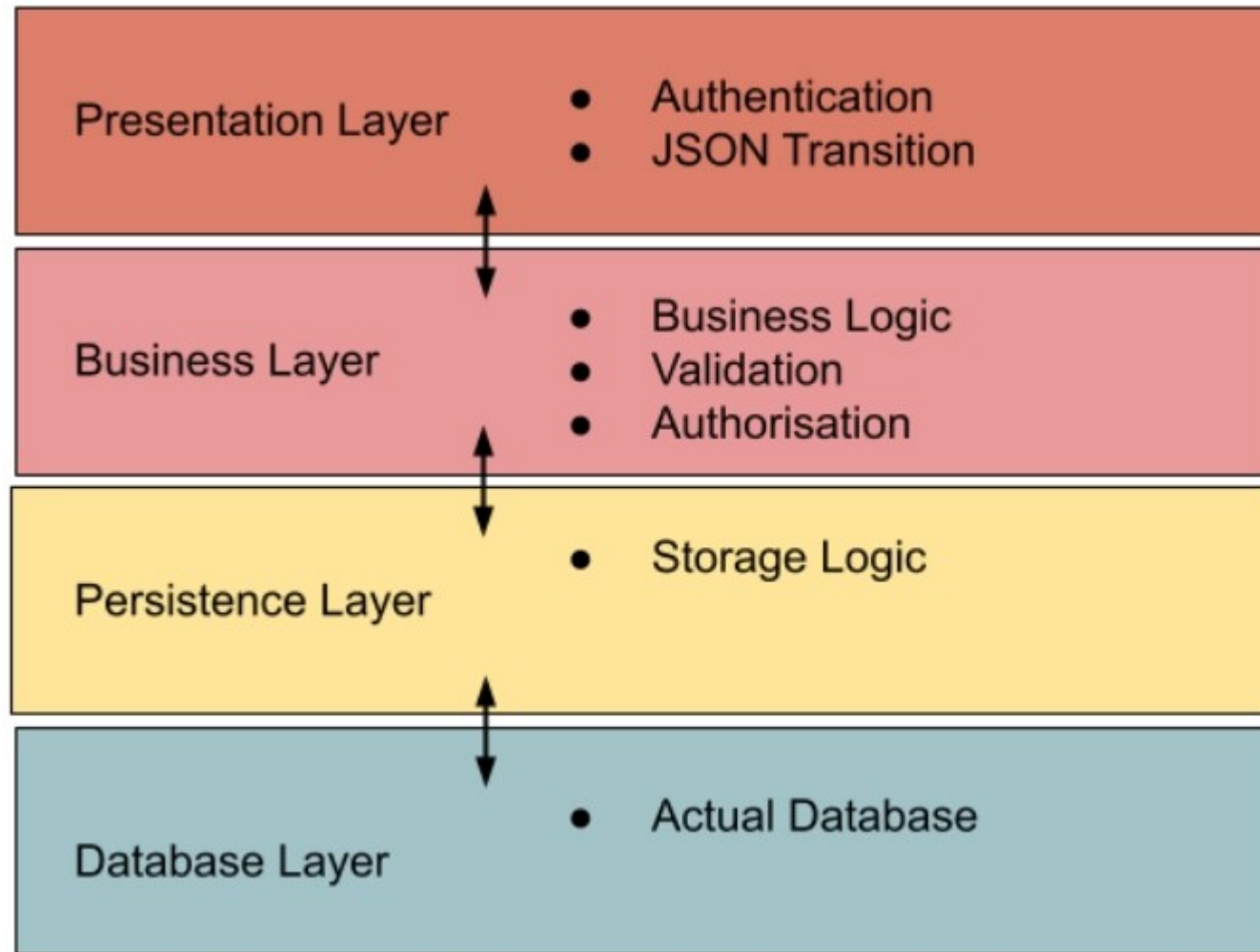


Session 4 : Spring Web

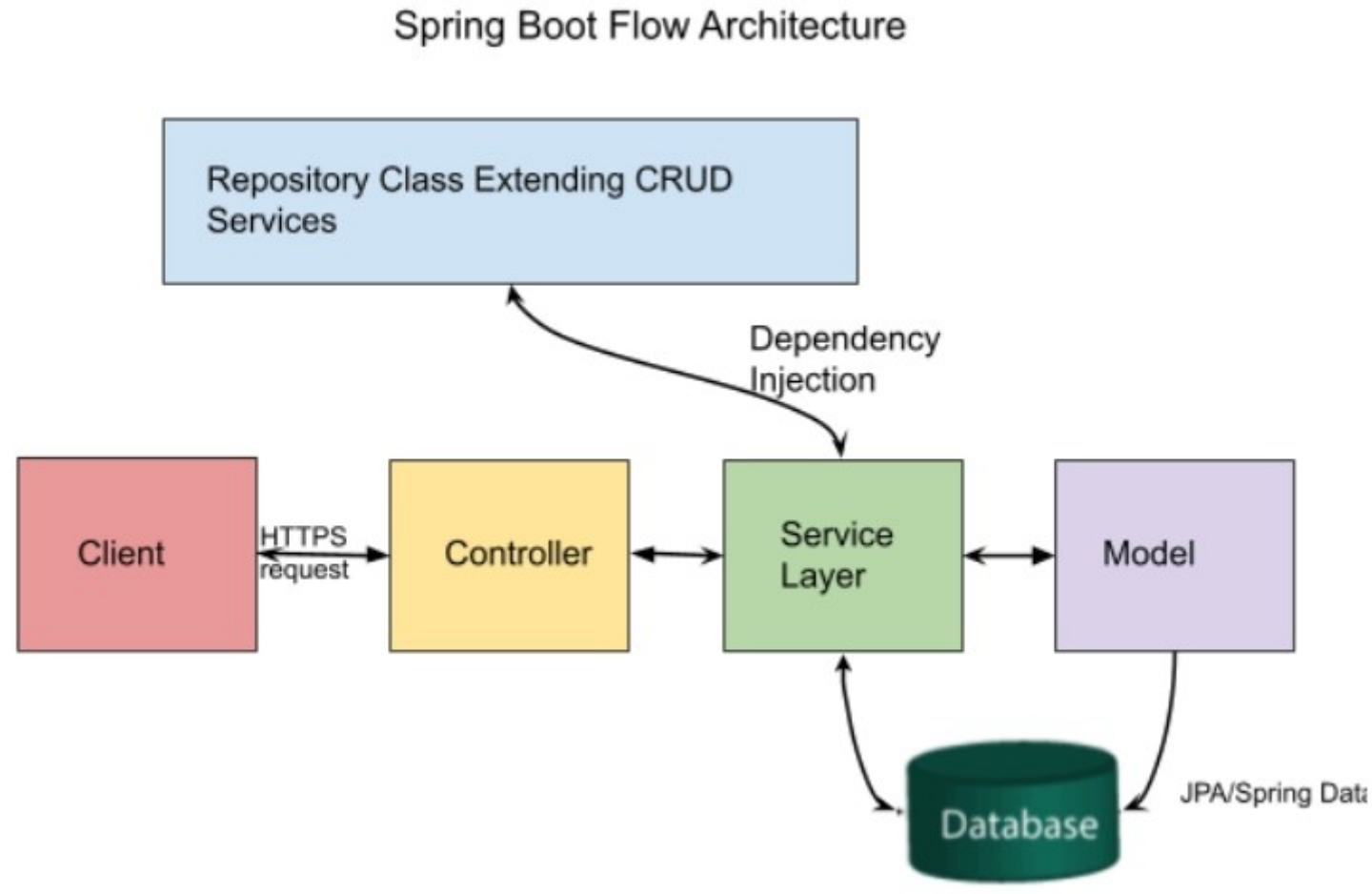
Features of Spring Boot

- Launching dependencies
- Autoconfiguration
- Embedded Servers
- Production-ready
- Convention over Configuration

Layers in Spring Boot Architecture



Spring Boot Flow Architecture



Spring Boot Annotations

- **@SpringBootApplication**
 - ✓ **@EnableAutoConfiguration**: enable Spring Boot's auto-configuration mechanism
 - ✓ **@ComponentScan**: enable @Component scan on the package where the application is located (see the best practices)
 - ✓ **@Configuration**: allow to register extra beans in the context or import additional configuration classes

<https://docs.spring.io/spring-boot/docs/2.0.x/reference/html/using-boot-using-springbootapplication-annotation.html>

Spring Boot Annotations

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Spring Boot Annotations

<https://docs.spring.io/spring-framework/reference/web/webmvc/mvc-controller/ann-requestmapping.html>

<https://docs.spring.io/spring-framework/docs/current/javadoc-api/org/springframework/web/bind/annotation/package-summary.html>

Spring Boot Annotations

- @RequestMapping

```
@RestController
@RequestMapping("/persons")
class PersonController {

    @GetMapping("/{id}")
    public Person getPerson(@PathVariable Long id) {
        // ...
    }

    @PostMapping
    @ResponseStatus(HttpStatus.CREATED)
    public void add(@RequestBody Person person) {
        // ...
    }
}
```

```
@Controller
@RequestMapping(value = "/vehicles",
method = RequestMethod.GET)

class VehicleController {

    @RequestMapping("/home")
    String home() {
        return "home";
    }
}
```


Live Coding : Employee Management System

- Controllers
- Services
- Repositories (Spring Data JPA)
- Validations
- Converters

End