

Overview of Spring & Spring Boot

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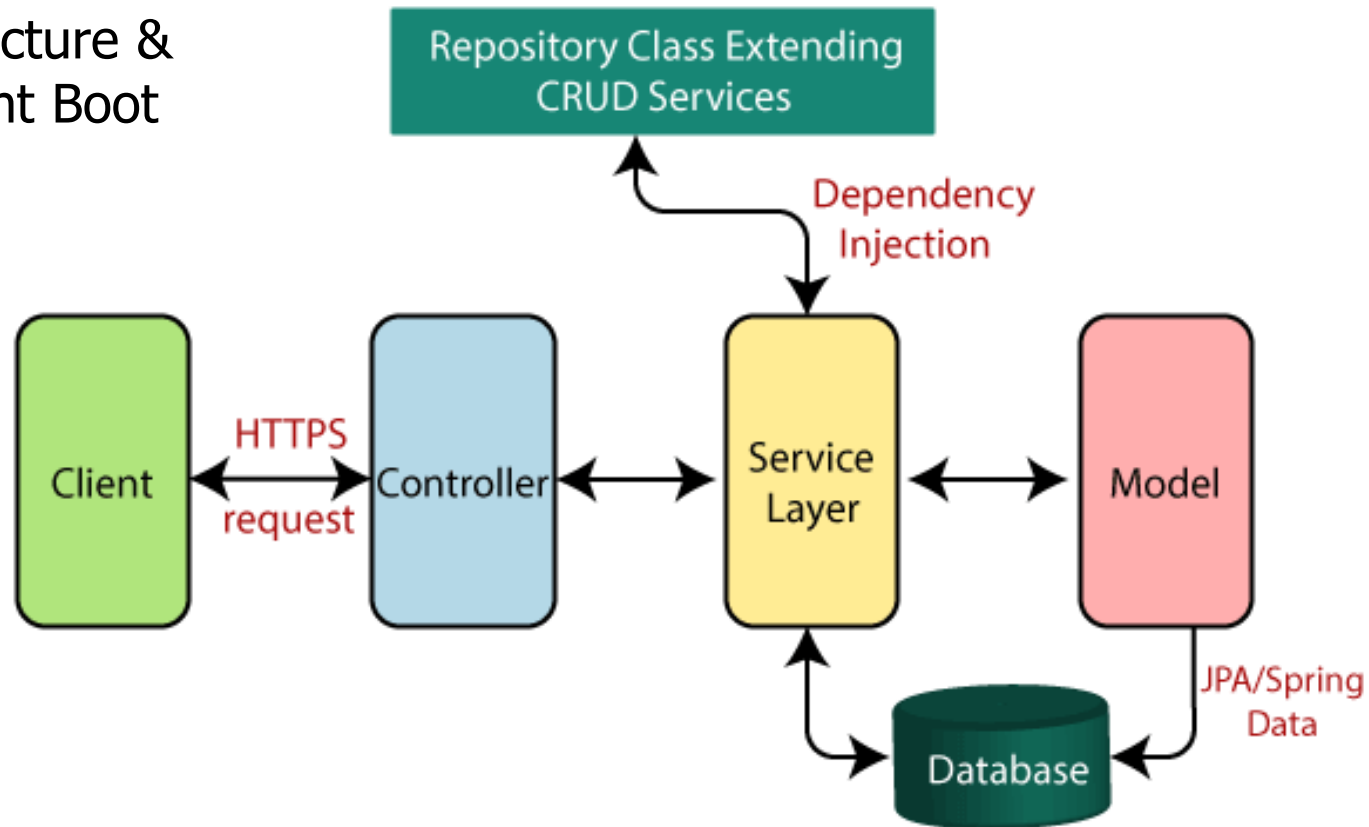
**Institute for Software
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Nashville, Tennessee, USA**



Learning Objectives in this Lesson

- Understand the structure & functionality of Sprint Boot



See spring.io/projects/spring-boot

Overview of Spring & Spring Boot

Overview of Spring & Spring Boot

- Spring is a dependency-injection framework & an inversion of control container for developing web apps on the Java platform



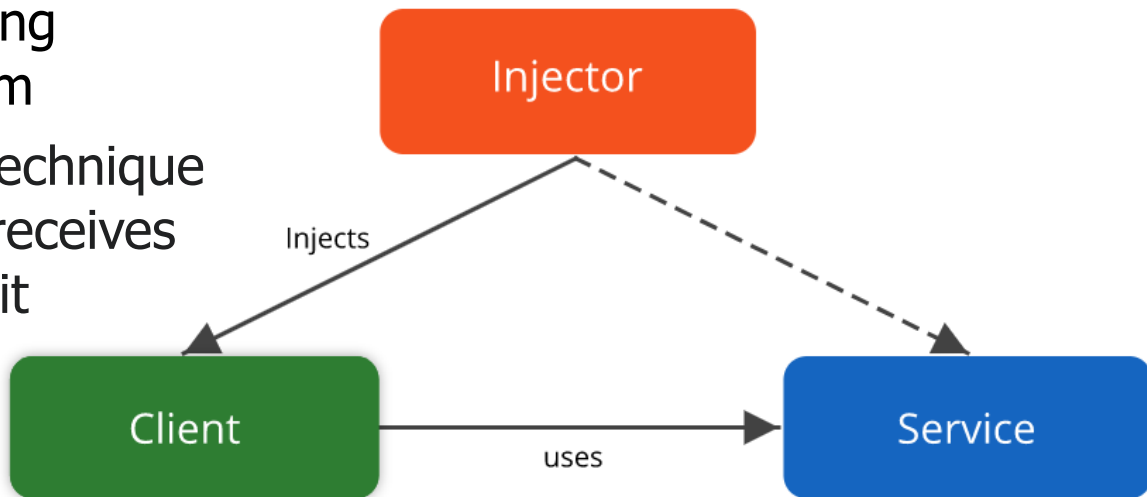
spring

by Pivotal™

See spring.io

Overview of Spring & Spring Boot

- Spring is a dependency-injection framework & an inversion of control container for developing web apps on the Java platform
- Dependency injection is a technique in which an object/service receives other objects/services that it depends on



See en.wikipedia.org/wiki/Dependency_injection

Overview of Spring & Spring Boot

- Spring is a dependency-injection framework & an inversion of control container for developing web apps on the Java platform
 - Dependency injection is a technique in which an object/service receives other objects/services that it depends on
- With inversion of control (IoC) the framework runs the main execution thread(s)



See en.wikipedia.org/wiki/Inversion_of_control

Overview of Spring & Spring Boot

- Spring contains various projects



Spring Boot

Takes an opinionated view of building Spring applications and gets you up and running as quickly as possible.



Spring Framework

Provides core support for dependency injection, transaction management, web apps, data access, messaging, and more.



Spring Data

Provides a consistent approach to data access – relational, non-relational, map-reduce, and beyond.



Spring Cloud

Provides a set of tools for common patterns in distributed systems. Useful for building and deploying microservices.



Spring Cloud Data Flow

Provides an orchestration service for composable data microservice applications on modern runtimes.



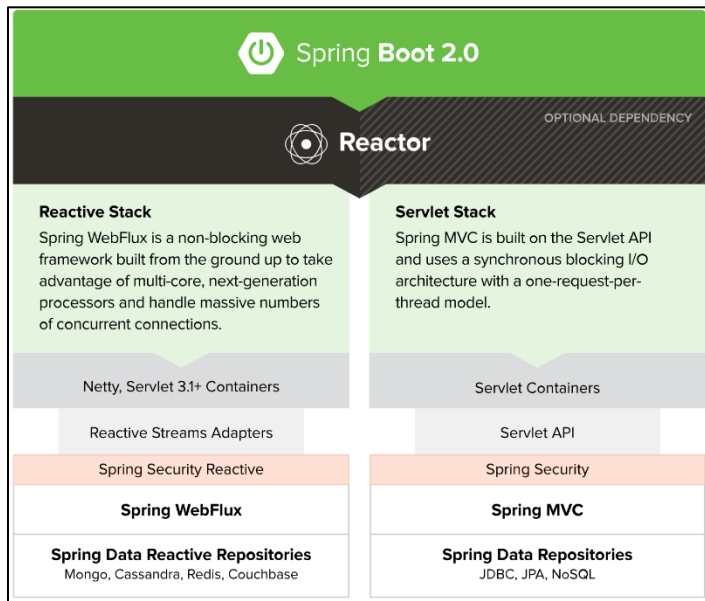
Spring Security

Protects your application with comprehensive and extensible authentication and authorization support.

See spring.io/projects

Overview of Spring & Spring Boot

- Spring contains various projects
 - We focus on Spring Boot 2.0



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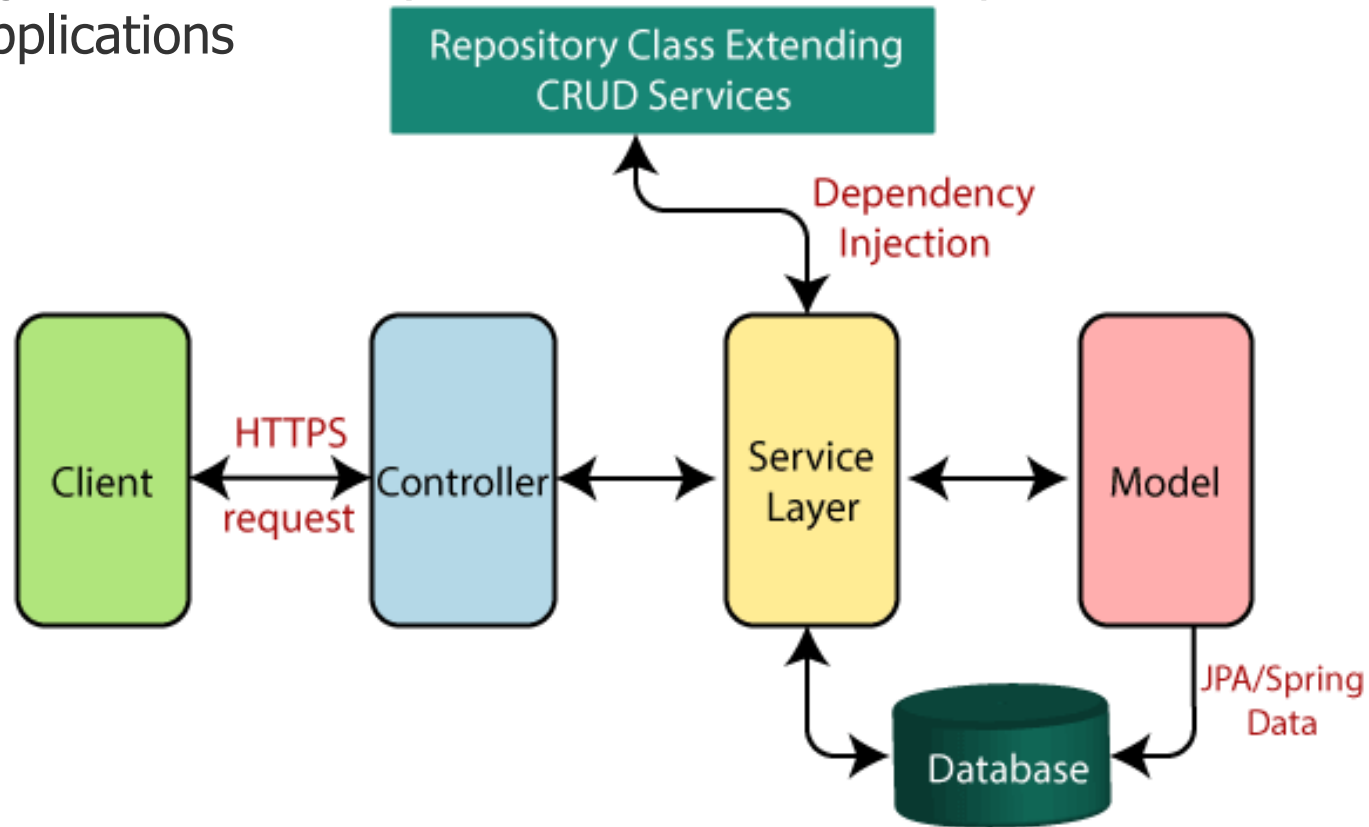
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See www.baeldung.com/new-spring-boot-2

Overview of Spring & Spring Boot

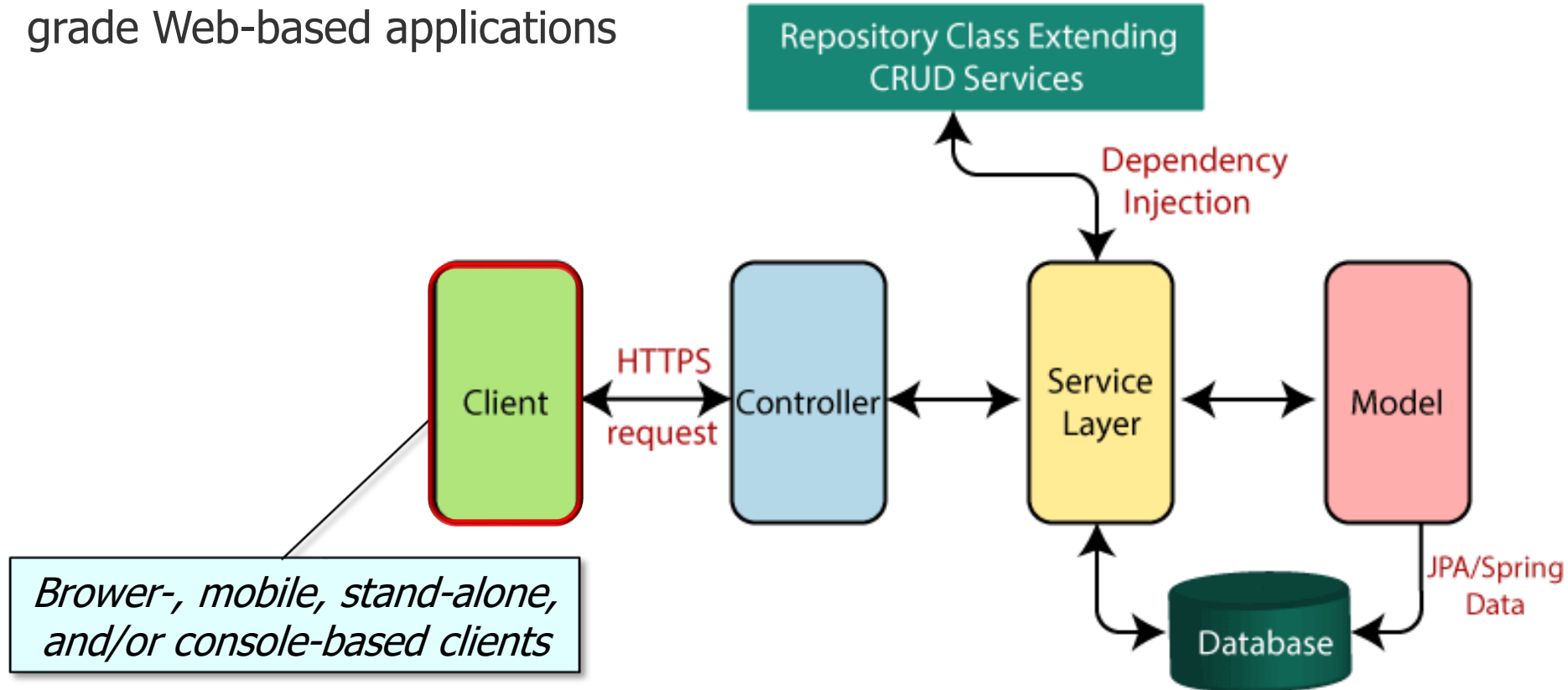
- The Spring Boot project makes it easy to create stand-alone, production-grade Web-based applications



See spring.io/projects/spring-boot

Overview of Spring & Spring Boot

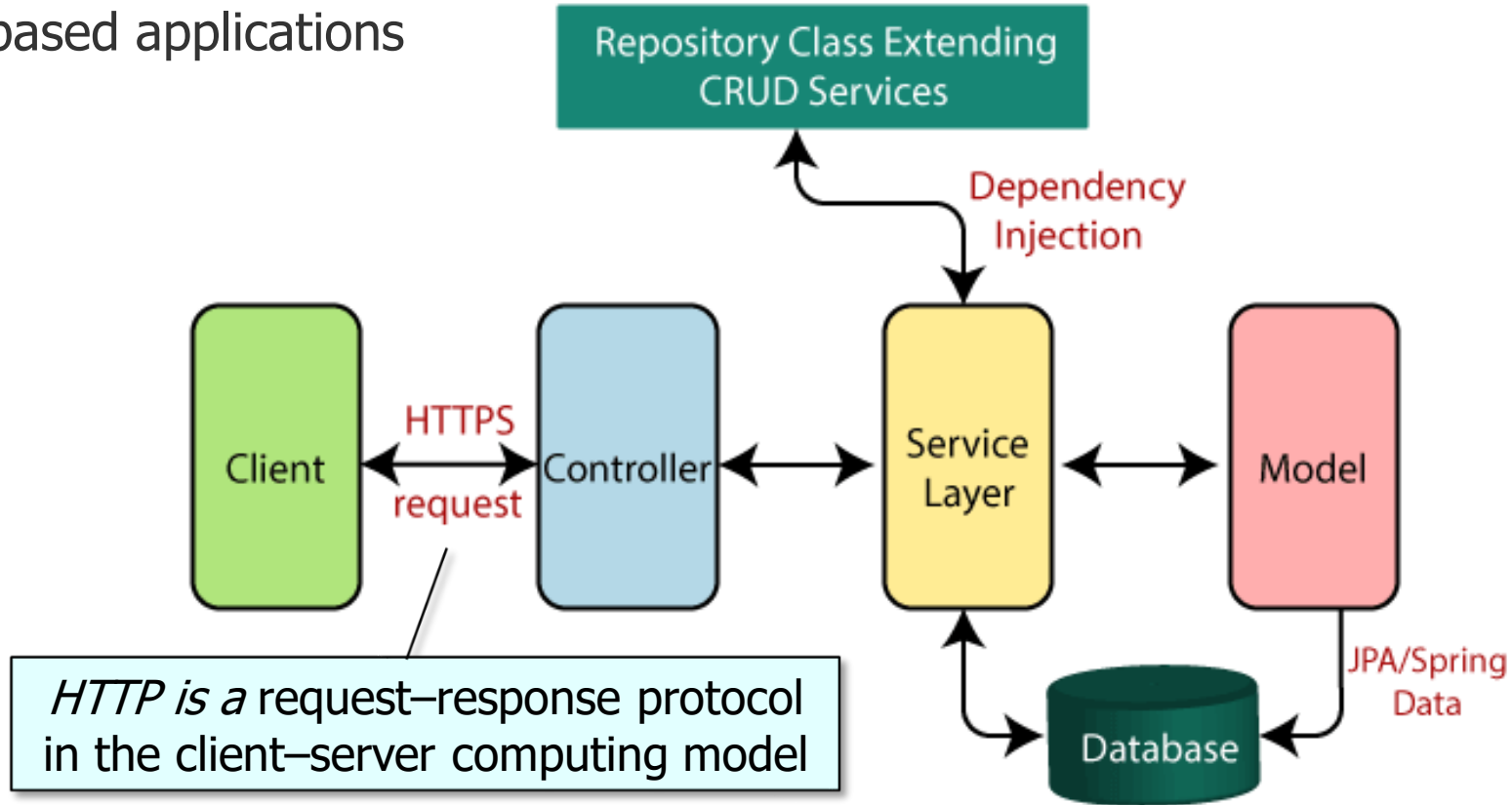
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See [en.wikipedia.org/wiki/Client \(computing\)](https://en.wikipedia.org/wiki/Client_(computing))

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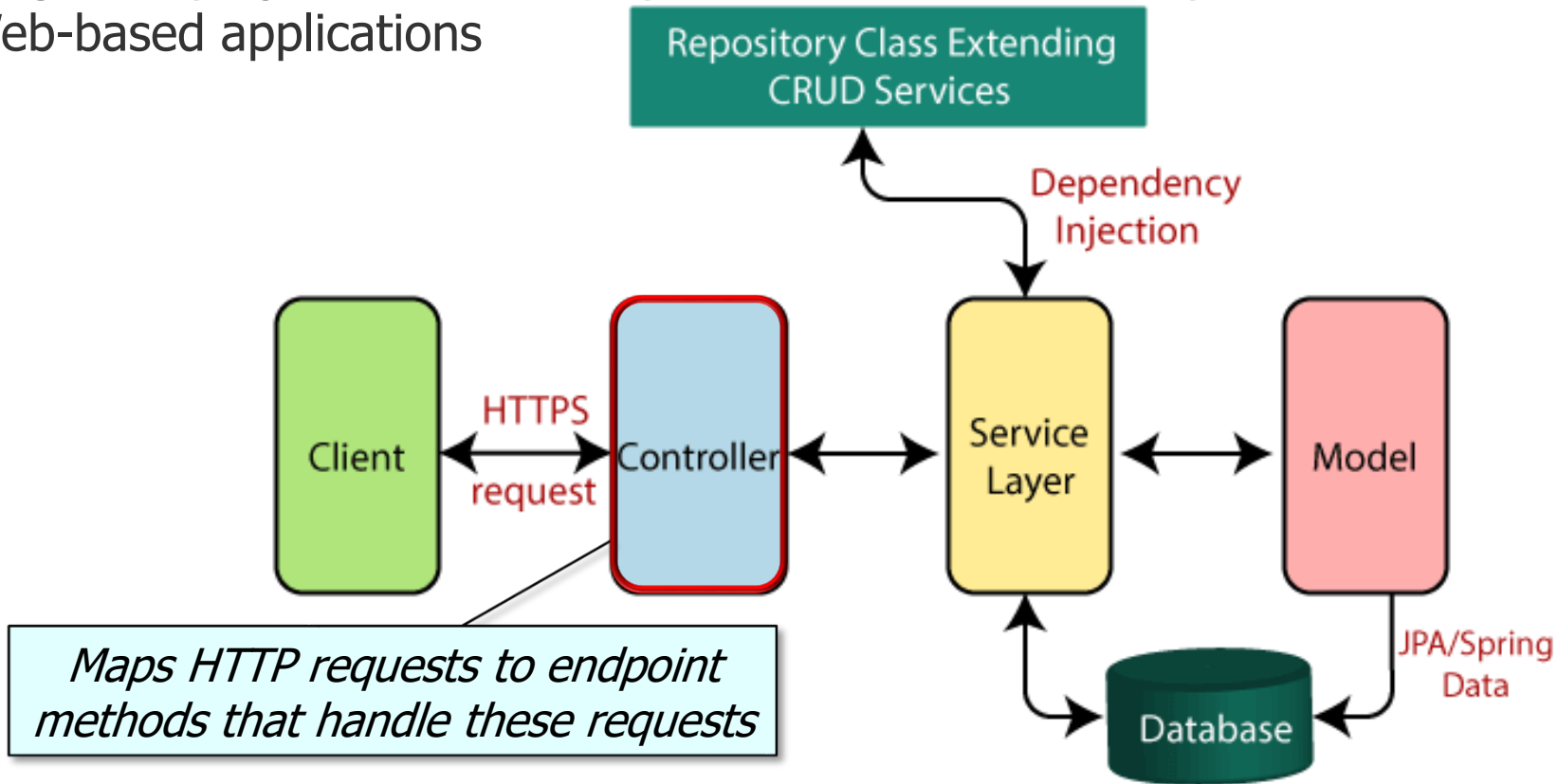
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See [en.wikipedia.org/wiki/Hypertext Transfer Protocol](https://en.wikipedia.org/wiki/Hypertext_Transfer_Protocol)

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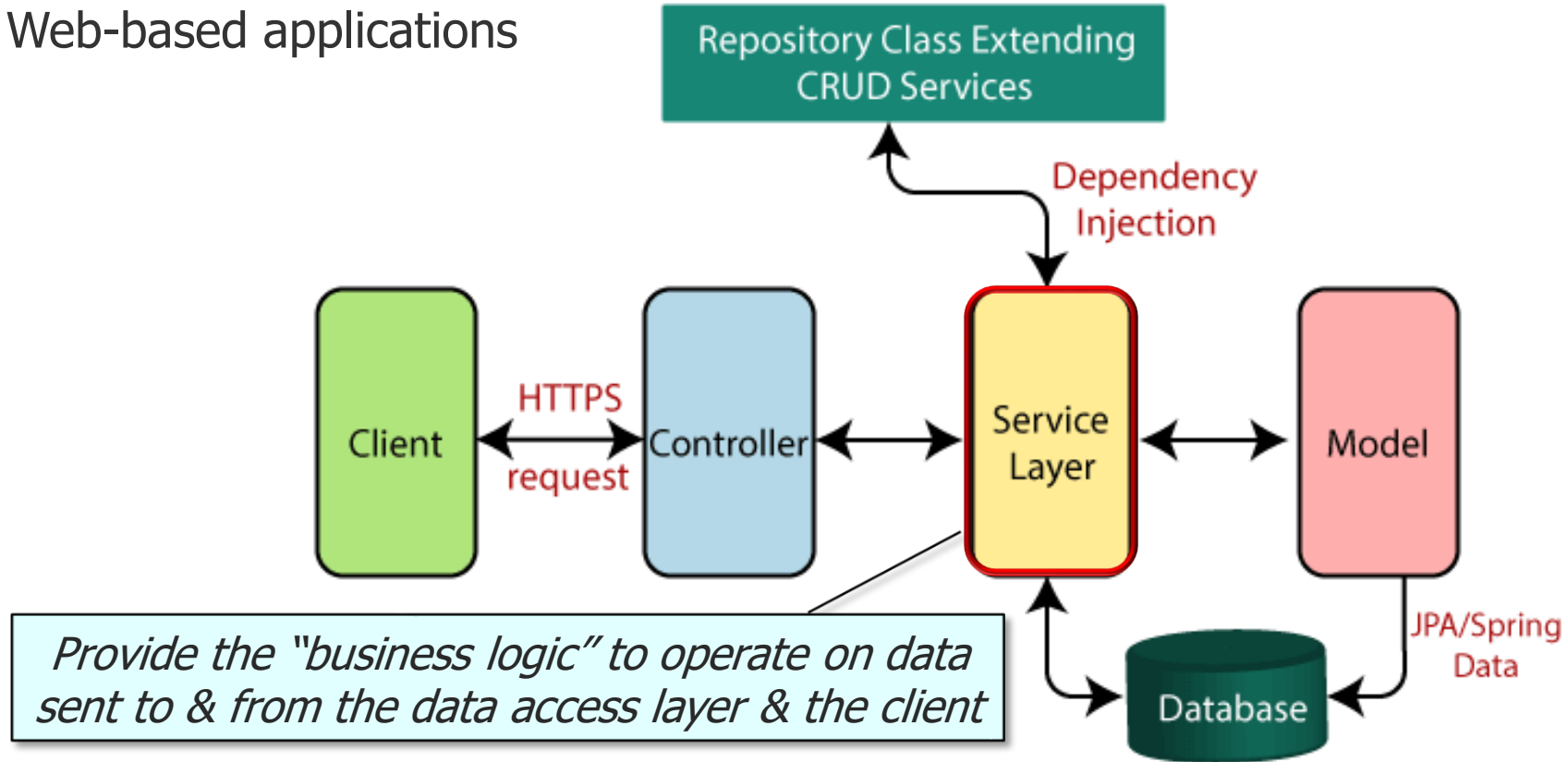
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See spring.io/guides/gs/rest-service

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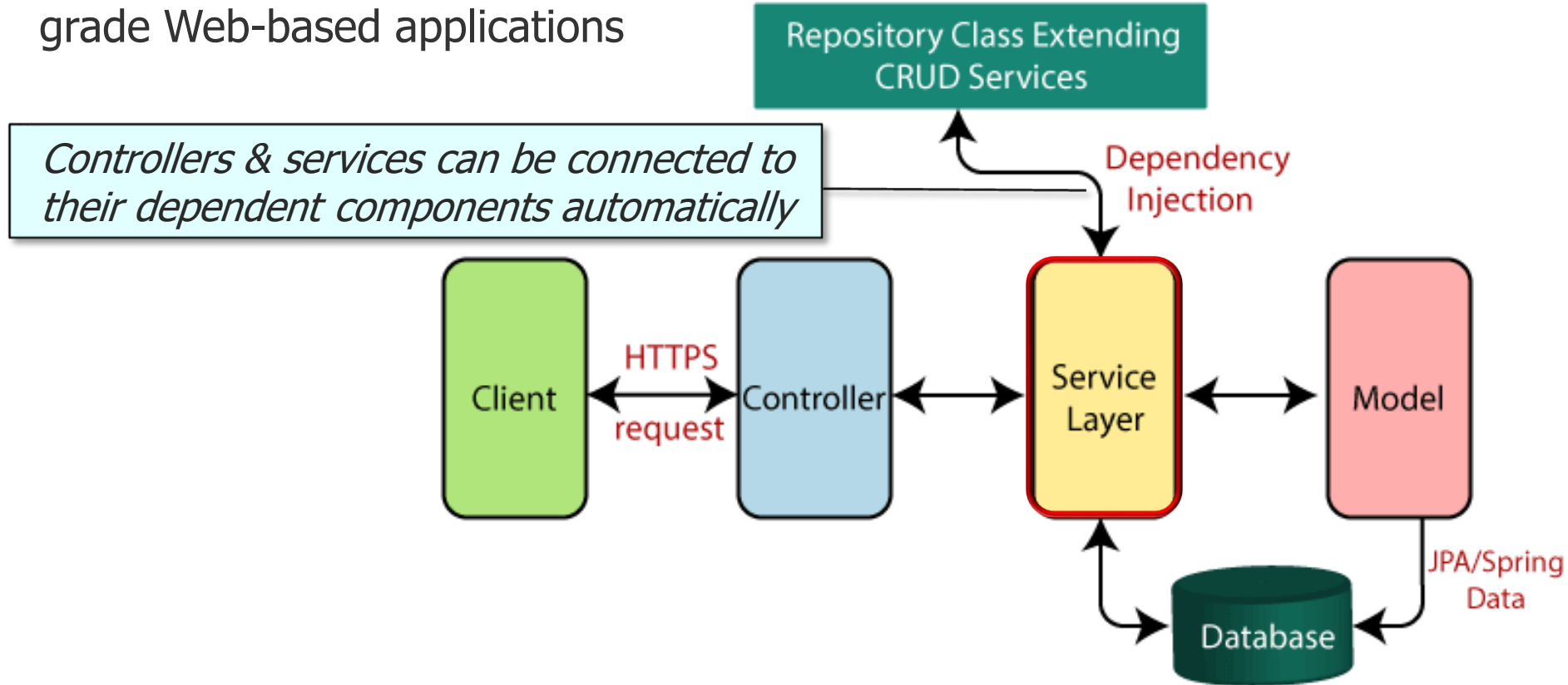
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See medium.com/stackavenue/why-to-use-service-layer-in-spring-mvc-5f4fc52643c0

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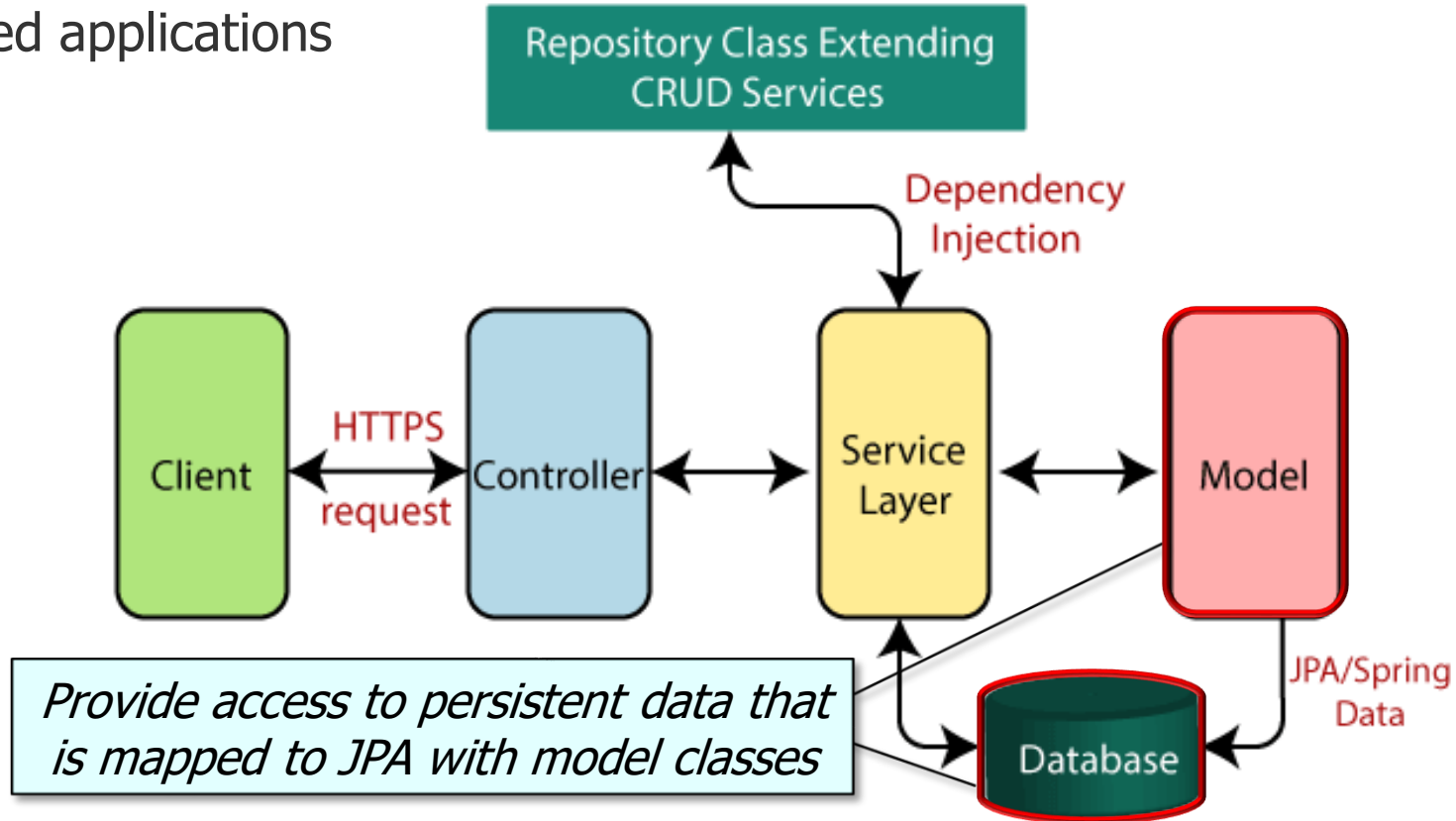
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See en.wikipedia.org/wiki/Dependency_injection

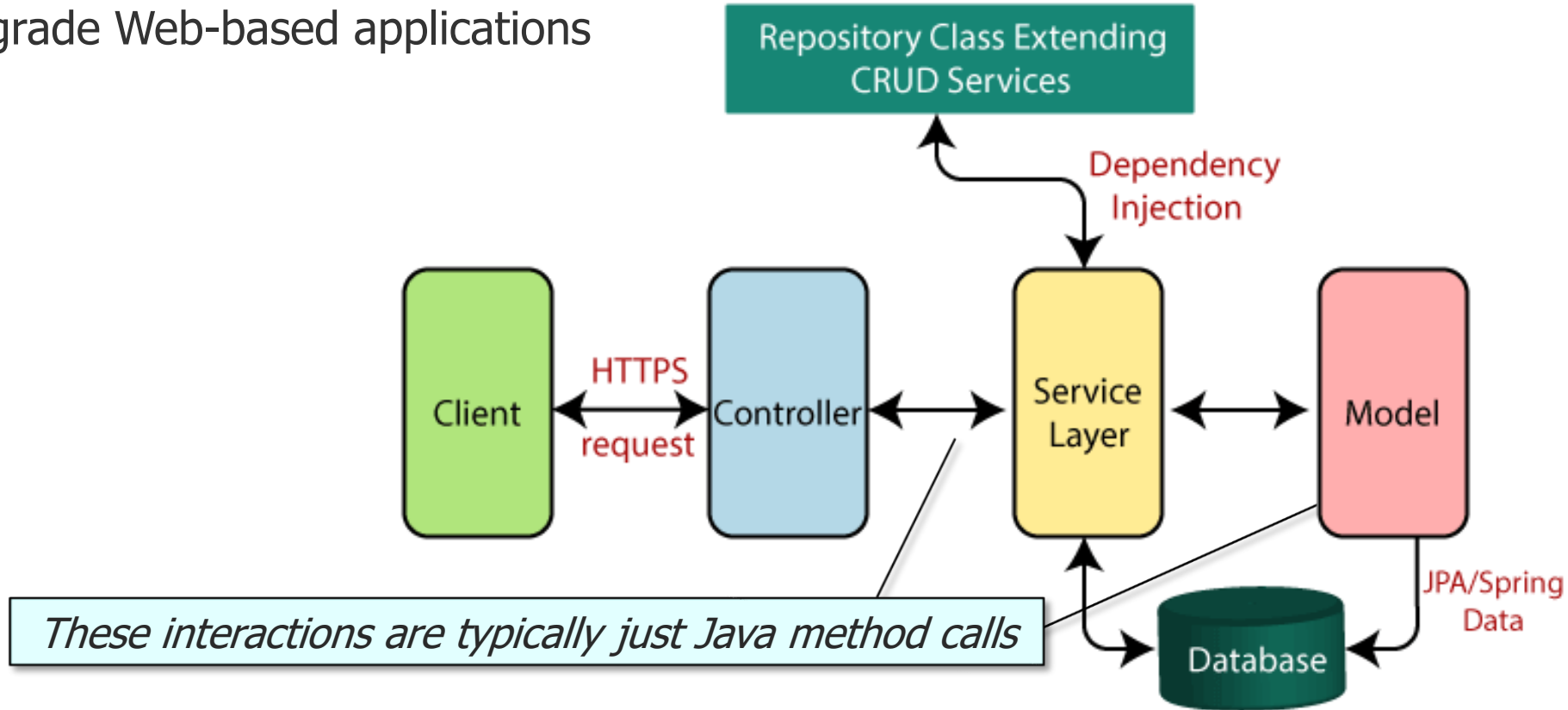
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See blogs.oracle.com/javamagazine/mastering-the-mechanics-of-java-method-invocation

End of Overview of Spring & Spring Boot