



Trainer: Niles Ghule

Wake up from Hibernate, Spring up!!!



Agenda

- Spring Boot Introduction ✓
- Spring Data Architecture ✓
- Spring Data JPA ✓
- Spring Test
- Spring REST services



Spring Boot

Java - Java is Simple.
Spring - Simplify Java development (DI).
Boot - Simplify Spring Config.

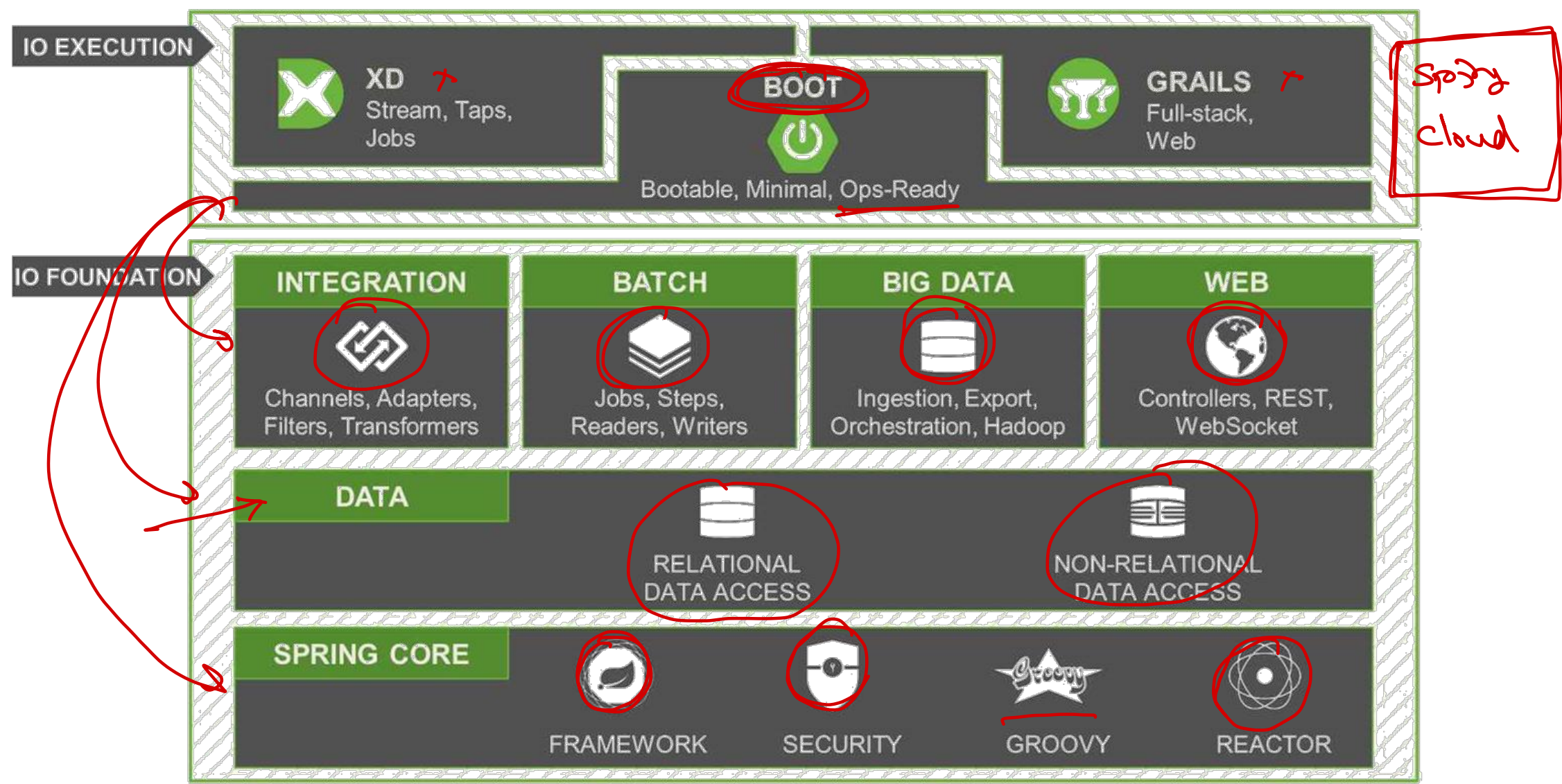
- Spring Boot is NOT a new standalone framework. It is combination of various frameworks on spring platform i.e. spring-core, spring-webmvc, spring-data, ...
- Spring Boot makes it easy to create stand-alone, production-grade Spring based Applications that you can "just run".
- Spring Boot take an **"opinionated view"** of the Spring platform and third-party libraries. So most of applications need minimum configuration.
*easy deployment
docker*
- Primary Goals/Features:
 - Provide a radically faster and widely accessible "Quick Start".
 - Opinionated config, yet quickly modifiable for different requirements.
 - Managing versions of dependencies with starter projects.
 - Provide lot of non-functional common features (e.g. security, servers, health checks, ...).
 - No extra code generation and XML config. → *fully ann config + properties file.*
 - Embedded Web Server for web applications.
 - No code generation (provide lot of boilerplate code) or XML configuration.
- Not good for porting existing applications.

Spring - hibernate
Spring web - tomcat
connection pool - hikari

lombok
↓
write *prjcs* ↓ *code generator*
auto -getter/setter.



Spring IO Platform



Spring Boot

started project

maven → jar
war
pom

- Latest spring boot: 2.3.1

- spring framework – 5.2.6

hibernate - ...

Scan current package
↑

- @SpringBootApplication

- @Configuration + @EnableAutoConfiguration + @ComponentScan

- @EnableAutoConfiguration

→ for web appn

+ @PropertySource

- spring-boot-starter-web → web-mvc + tomcat

- SpringApplication.run(DeptappApplication.class, args)

- Start embedded web server
- Deploy MVC application

- Pom.xml
- ① context
 - ② webserver
 - ③ Dom
 - x ④ hibernate
 - x ⑤ mysql
 - x ⑥ test/junit
 - x ⑦ test/mockito
 - x ⑧ jackson

application property.

@Conditional → condition based on classpath

create appn class & beans

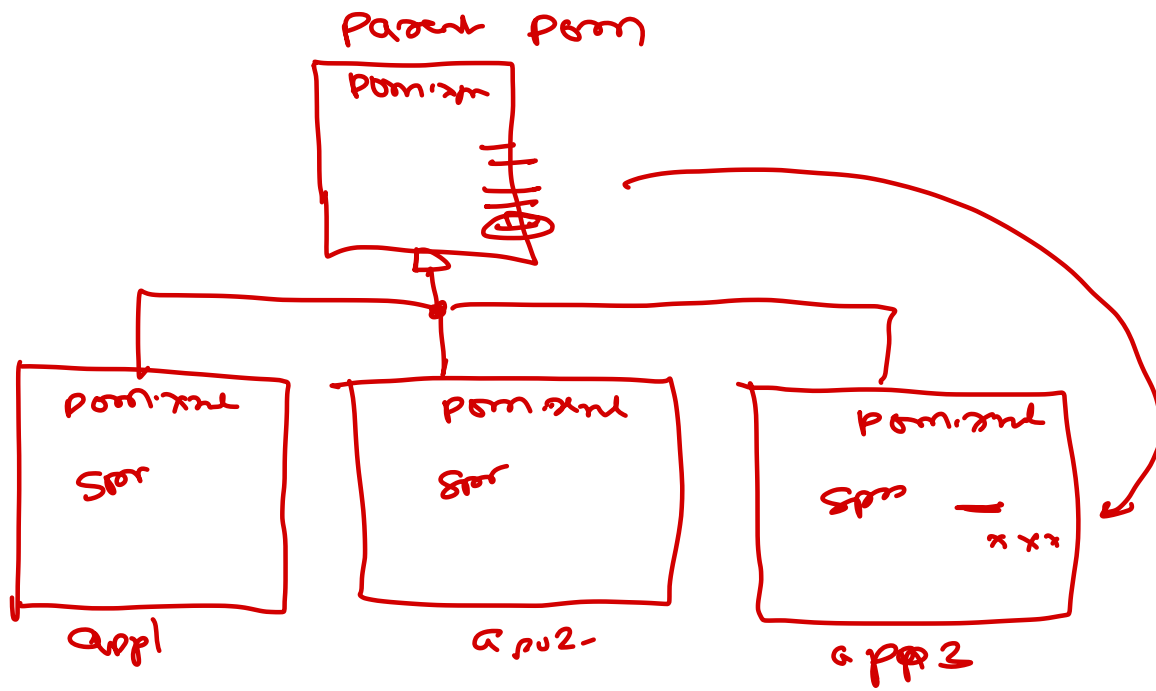
Ann
Controller
Controller

create beans & init them

Conditional config based on jars added in classpath.

which props are available





Spring
boot

Starter

↓

Parent pom

+

builderplate
code.

Course Evaluation & Certificate

- Mini-projects
 - Book Shop Spring MVC application
 - Customer functionalities
 - Admin functionalities
 - Online Pizza Spring MVC application
 - Customer functionalities
 - Admin functionalities
- Implement and share code with Lab mentors Yogesh and Akash sir.
 - Push code on gitlab repository and give access as developer.
 - Email code.
- Mini-projects will be evaluated and certificates will be issued on weekend.
- **Deadline: 9th Aug 2020**
- **Feel free to talk to us, if you need any help for project completion.**





Thank you!

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