Spring + Embedded server - XML configurations = Spring boot

learn these in free time -> https://spring.io/projects

we face many Nightmares while using spring.

-> tomcat server causes nightmare in few cases

-> POM file dependencies and versions resolving by maven may cause a very critical issue sometimes

-> database dependencies and related operations

-> XML language - shit

spring has learnt everything with java, and it produced spring boot

spring boot become very famous because of this main reason, it became made for each other with ‘Microservices'

Components of Spring boot,

- Spring boot starter

- Auto Configuration

- Spring boot Actuator

- Embedded server

- Spring boot DevTools

Advantages of Spring boot:

- stand alone and quick start

- starter code

- less configuration

- reduced cost and development time

spring starter -> https://start.spring.io/

ultimately, spring boot is also a Dispatcher Servlet only, which handles all the servlets and containers

we can get to know the health of each and every bean.

\*\*\*\*IMP\*\*\*\*\* -> https://www.jrebel.com/blog/spring-annotations-cheat-sheet

what is @SpringBootAPpplication annotation?

-> it is combination of

-> @SpringBootConfiguration

-> @EnableAutoConfiguration

-> @ComponentScan

* AOP Aspect oriented programming,
  + is the concept of separation of concern.
  + It separates the secondary tasks from the main core logic of the application.
  + Like logging, security checks, managing transactions etc.
* Spring boot decides which server to use based on the class path dependencies, if no server is found in the dependency, then spring boot uses its default tomcat server which is under spring-boot-starter-web.
* getBeanDefinitionNames() method from ApplciationContext gives us the list of beans available in the application.
* Cache eviction – removes data from chache to free up space with least recently used items.
* Cache expiration – removes data from cache if it becomes too old(based on time-to-live), to maintain data freshness
* Scopes available in beans
  + Singleton
  + Prototype
  + Request
  + Session
  + Global session