Spring framework -- boot

Managing the dependencies

starter projects
Spring Initializr

>mvn <options>
>mvnw <options>

JSP-jstl view template
ViewMArker
Tiles
Velocity
Thymeleaf
Mustache

starter-parent

Spring boot config
    1. through dependency in pom.xml
       certain default config is auto activated
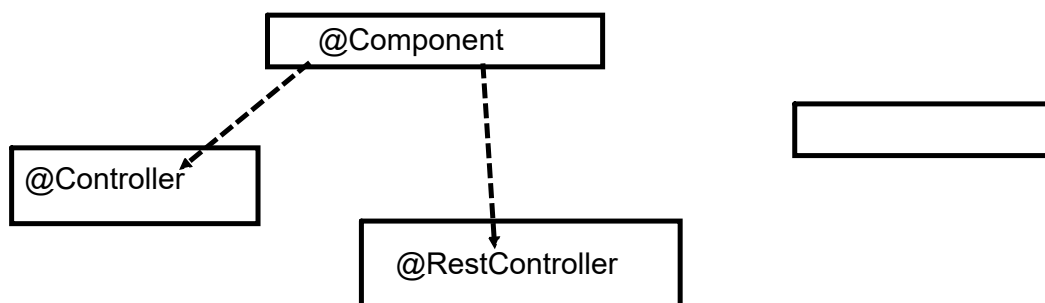   2. activates the key-value (properties) based config
       application.properties
       application.yml
    3. std folder structure
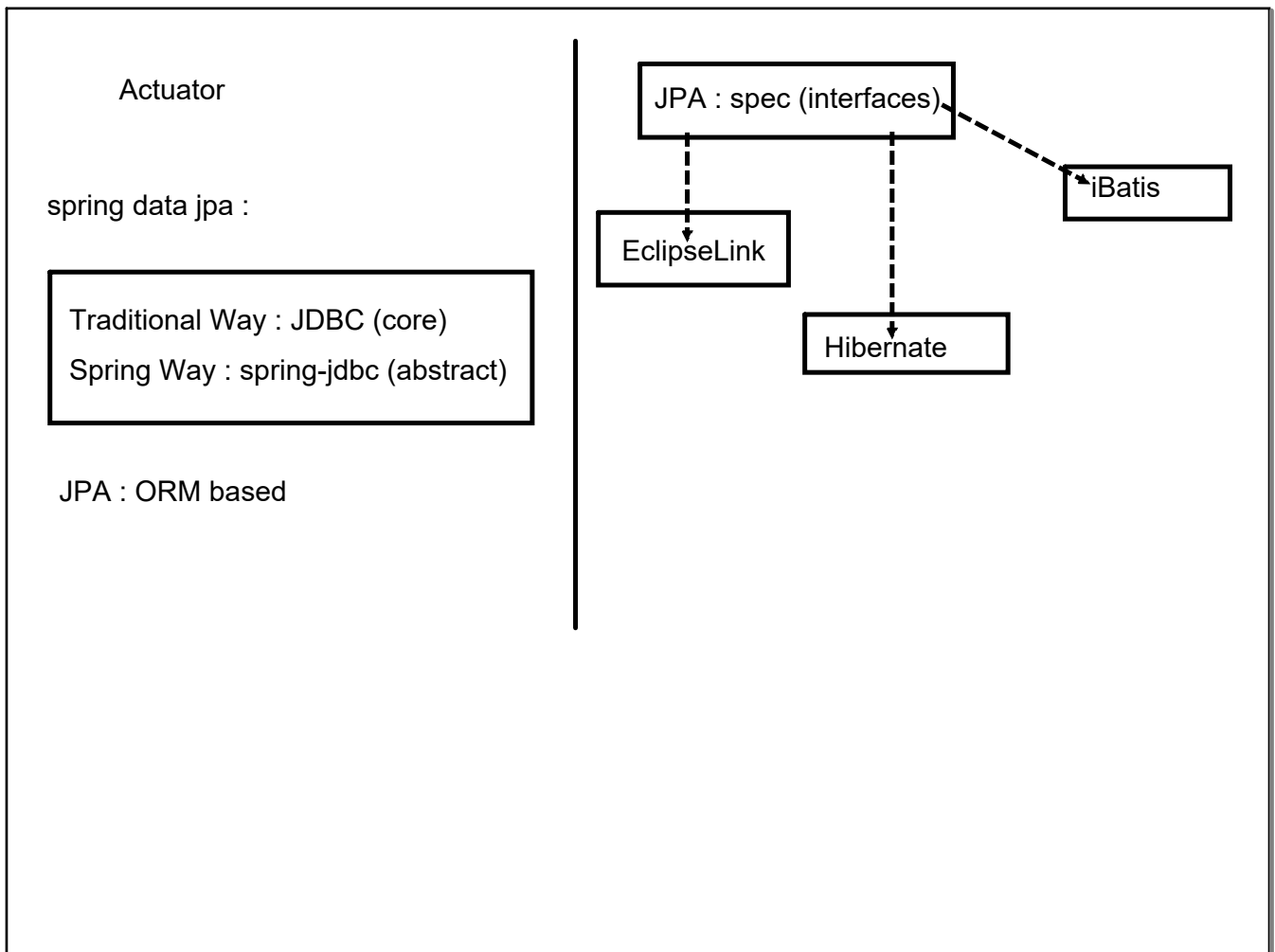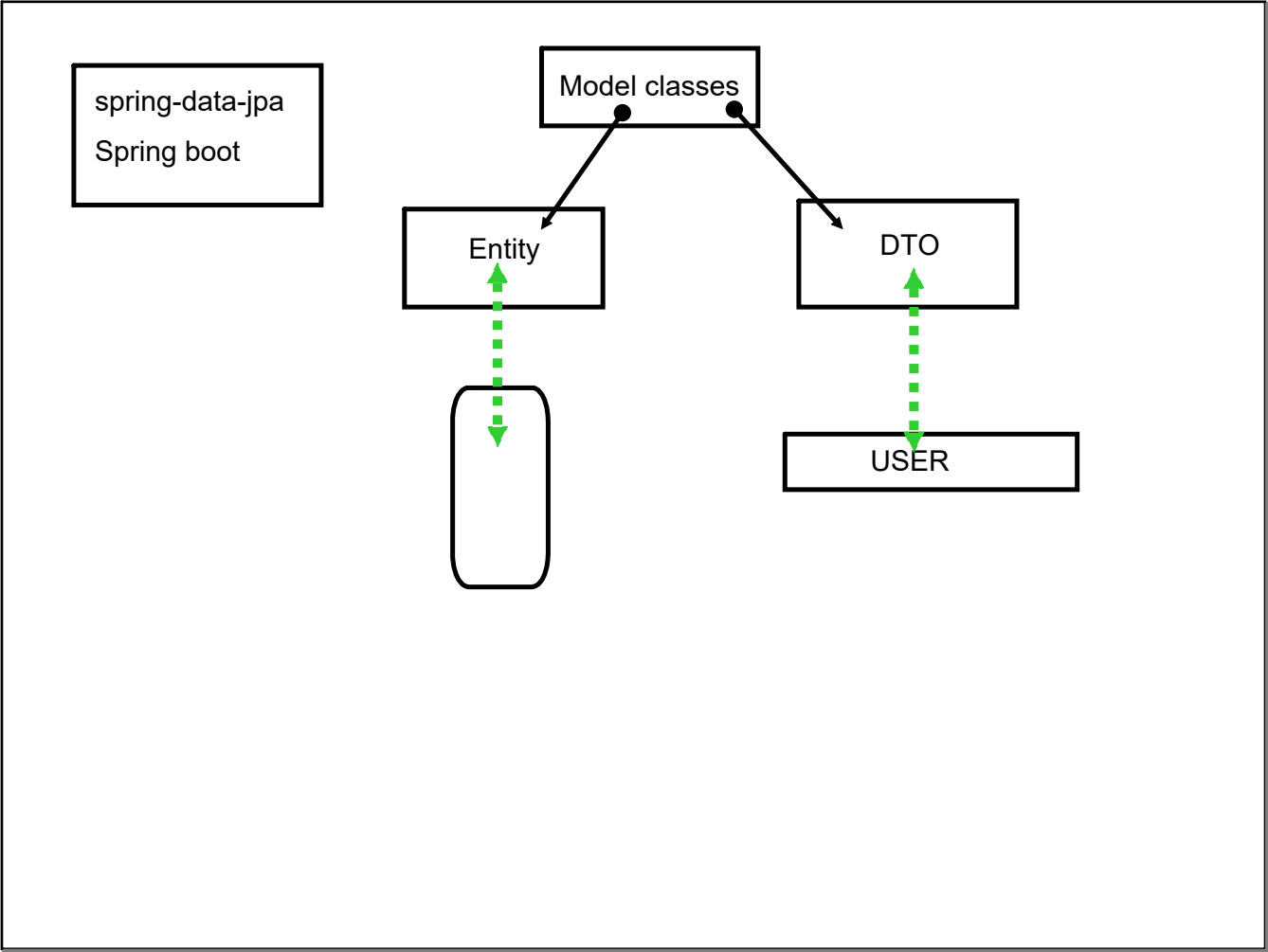   4. Exposes specially curated Annotations

@component

@Component

@Controller

@RestController

Response is treated as data (Response Data)

supports auto conversion of POJO & JSON (jackson-databind project)

 devtools

Actuator

spring data jpa :

Traditional Way : JDBC (core)

Spring Way : spring-jdbc (abstract)

JPA : ORM based

JPA : spec (interfaces)

EclipseLink

Hibernate

iBatis

spring-data-jpa

Spring boot

Model classes

Entity

DTO

USER

Any DB interaction needs JDBC config

    db name

    location

    user name

    password

    driver (auto detect the driver based on URI)

JPA

    custom config for JPA

Hibernate

    custom config for Hibernate

SQL : dialect

  DataSource

    (interface)

JPA--> Repository : Entity

Interfaces containing basic
CRUD functionalities pre-coded

Custom Interface and inherit
Repository interface

    #associate with entity

    # platform for custom
    implementation

JpaRepository

CrudRepository

CrudRepository

JpaRepository

SQL

MongoRepository

NoSQL

Controller

Service

Repository