



Introduction to Spring

Agenda

1

What is Spring?

2

Why Spring?

3

Spring Architecture

Objectives

At the end of this session, you will be able to:

- Understand What Spring Framework is
- Understand Spring Architecture and it uses

What is Spring?



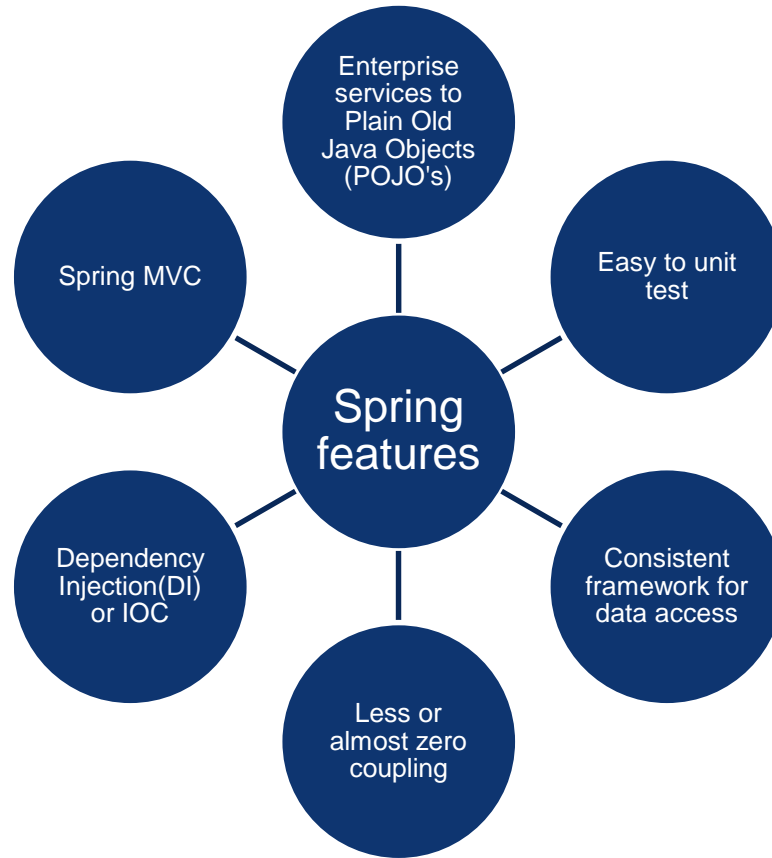
What is Spring ?

- Do you know to make a Simple bean Java class? If yes, Then your ready for Spring
- In Spring all business modules are simple Bean class or popularly called POJO (Plain OLD Java Object)

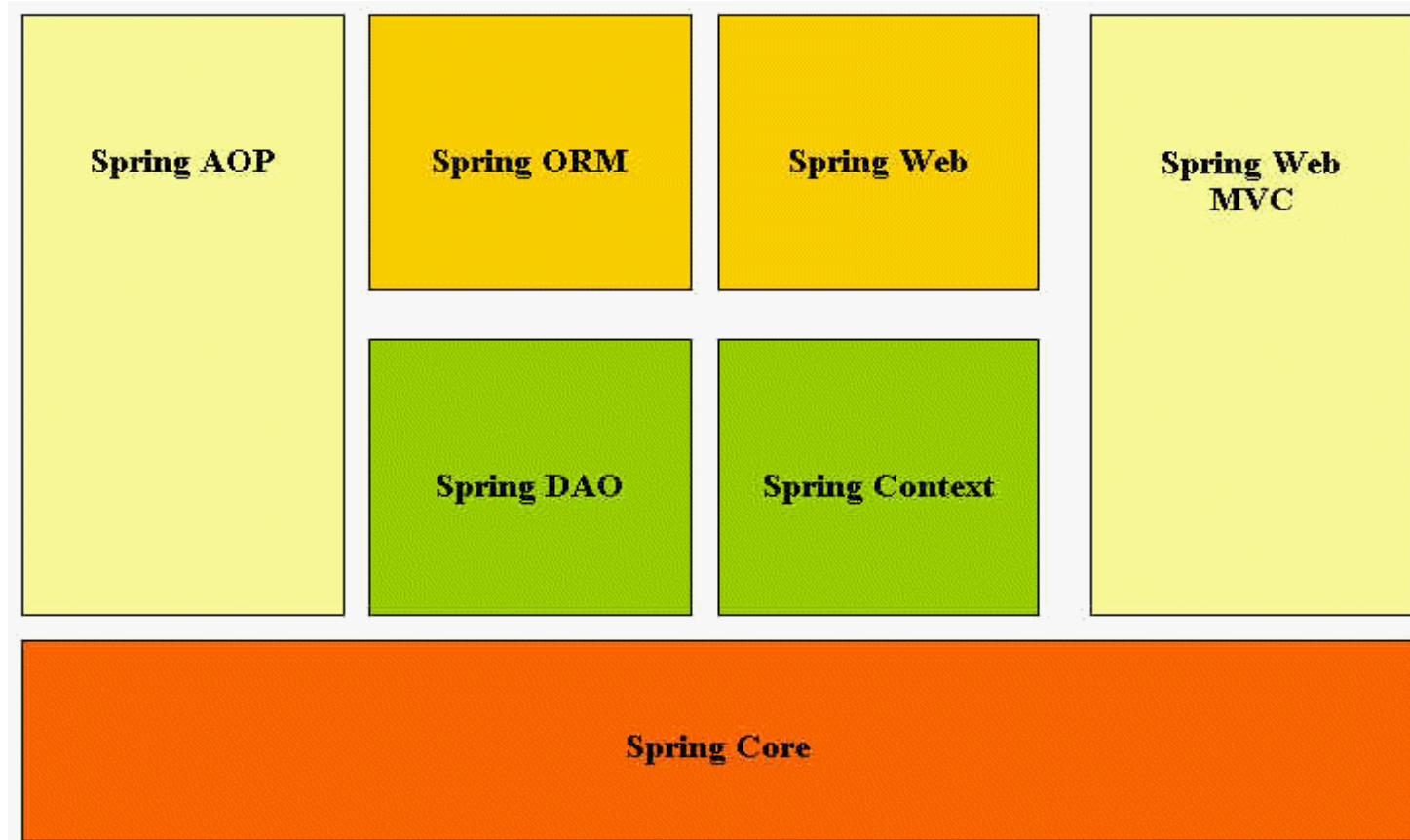
Spring is a popular open source application framework that can make J2EE development easier by enabling a POJO-based programming model

- Spring is not J2EE Application framework but it well integrates with selective J2EE specifications like Servlet API, JPA etc

Why Spring ?



Spring Architecture



Spring Architecture

- **Spring Core:** Contains the most fundamental part of Spring Framework
- Among them the most basic and important one is DI (dependency Injection) or IOC (Inversion Of Control)
- It's a process where IOC *container takes the responsibility of providing (injecting) the dependencies of an Object* either through the constructor or setter methods.
- **Spring AOP:** Spring has its own Aspect Oriented Programming technology framework
- This enables *modularization of concerns* for enterprise services, declarative transaction management services, logging and securities (*crosscutting concerns*) etc.
- **Spring ORM:** The ORM package provides *integration layers for* popular *object-relational mapping*(ORM) *APIs*, including JDO, Hibernate and iBatis
- **Spring Web:** The Spring Web module is part of Spring's *web application development stack*, which includes Spring MVC
- **Spring DAO:** The DAO (Data Access Object) support in Spring is primarily for *standardizing the data access* work using the technologies like JDBC, Hibernate or JDO

Summary

- In this module, we have learnt:
 - Spring as Framework
 - Features of Spring
 - Architecture of Spring
 - Various Modules of Spring



Thank you