Introduction to Spring Framework



Agenda

- What is Sprint?
- Spring Features
- IoC
- Traditional DI
- · IoC DI

What is spring?

- Open Source Java based framework for enterprise and internet applications.
- Provides a comprehensive programming and configuration model for modern Java-based enterprise applications - on any kind of deployment platform.

Features

- 1) Open Source
- 2) Enterprise and Internet support-Not only J2EE but cloud, mobile and other platforms as well
- 3) Lightweight- Bring only required JAR's in classpath
- 4) Annotation Support- Support for all java annotations and spring annotations

Features

- 5) No need for heavy application servers- like weblogic or websphere, Tomcat or Jetty are sufficient
- 6) Provides abstractions for enterprise applications- messaging, SMTP, data base access etc.
- 7) Reusable client platform can be built to inject in other components
- 8) Focus on Business logic

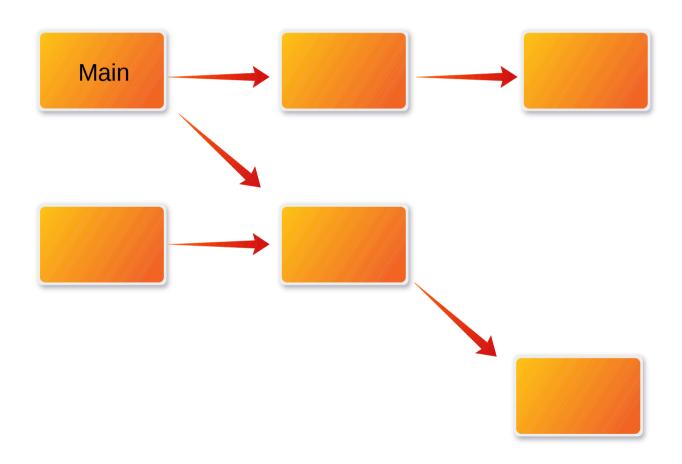
Features

 9) Dependency Management System(IOC)- run time dependency management

Inversion of Control(IOC)-

- Way of dependency management
- IOC container injects objects at run time not at compile time
- An object does not construct dependent object, just accepts required information(dependencies)
- Reduces amount of code & no repetition
- Reduces object coupling

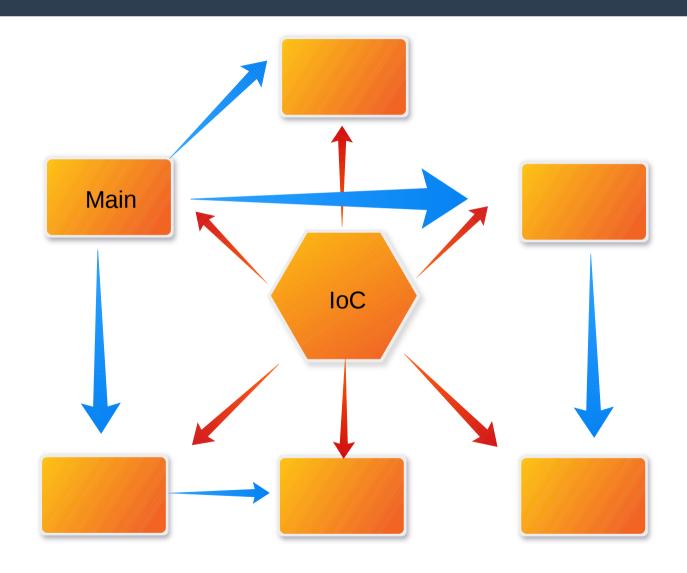
Traditional DI



IoC Dependency Management

 Central IOC builds reference to each of class in system and passes as needed

IoC Dependency Management



References

 https://spring.io/projects/spring-fram ework

