**Phase 3 : 7 days**

**Day 1**

**20-03-2023**

**Spring framework and spring boot**

**Framework. Framework is a collection of classes and interfaces which internally connected to each other to perform a specific task. If we develop any enterprise application without framework we need to do more configuration. But if we develop the application with the help of any framework take core those all configuration. Design pattern. Design pattern means best practise or solution for repeating problems. If we develop any application using any framework we are following standards because all framework internally follow design pattern.**

**Collection framework is like a data structure.**

**MVC : Model View Controller**

**View 🡪 html or jsp**

**Controller 🡪 servlet**

**Model -🡪 javabean class or entity class**

**Service class**

**Dao class**

**Resource class**

**Jsp and servlet object creation is taken care by web container. Web container is a part of web service ie tomcat.**

**But web container doesn’t create object of java bean class, service class, dao class as well as resource class etc.**

**To improve the model class we were use EJB (Enterprise Java Bean).**

**View 🡪jsp and html**

**Controller 🡪 servlet**

**Model 🡪 EJB**

**To run the ejb application we required ejb container. Ejb container is a part of application server application server are heavy weighted server. Ejb is very complex technologies**

**Framework**

**Struts : struts is open source web framework which internally follow mvc architecture. Struts is known as controller centric framework.**

**JSF (Java Server Faces) : jsf is open source web framework part of oracle. It internally follow mvc architecture. JSF is known as View centric framework.**

**JSF Vs Angular / React JS / View JS**

**Hibernate : hibernate is replacement of JDBC.**

**Spring Framework : spring is open source layered architecture or onion architecture framework. Spring is light weighted framework.**

**Spring framework provided lot of modules which help to develop any type of application on demand.**

**Spring framework modules**

**Spring core**

**Spring context**

**Spring web**

**Spring mvc : spring mvc internally follow mvc architecture framework.**

**Spring mvc is known as model centric framework.**

**Spring MVC Vs EJB**

**Spring mvc allow use to integrate with struts or JSF.**

**Spring jdbc**

**Spring orm spring orm allow us to integrate with existing orm tool like hibernate, jpa or iBaties etc.**

**Spring data**

**Spring rest**

**Spring boot**

**Spring security**

**Spring micro service**