Spring – Java Based Framework to Create Enterprise Application

Stand-alone app – Desktop based app (download/install) - (jar/runnable jar) [Core-Java]

Web app – (access it from browser – no installation needed) - war [Core Java + Adv Java]

Enterprise app - (ear) [Core Java + Adv Java + Enterprise Features]

Facebook/WhatsApp (browser, mobile app [android/iOS], stand-alone)

Jar – Java Archive

War – Web Archive

Ear – Enterprise Archive

Lot of xml-based configuration is needed for creating an enterprise app.

EJB – Enterprise Java Beans

JMS – Java Messaging Service

JNDI – Java Naming Directory Interface

JAXB

.

.

.

Spring Framework ( IoC – Inversion of Control & DI – Dependency Injection)

POJO – Plain Old Java Objects - A class which is not extending in other class nor implementing any interfaces.

Ioc & DI (popular java based framework)

Spring also called framework of frameworks – It supports Struts, Hibernate…

Spring.xml (or) spring-config.xml

<https://www.javatpoint.com/spring-tutorial>

Servlet – html code inside your java class

JSP – java code inside html (% ==scriptlet tag, %@- directive tag, action tag <jsp:…>

Starting point

For Java Application --- Starter class (A class with the main method)

For Web Application --- web.xml (deployment descriptor)

org.springframework.web.servlet.DispatcherServlet - This is the Front Controller of Spring Framework

Step 1:

Web.xml -🡪apply sdnext for all html request 🡪sdnext-servlet.xml

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| Web.xml | Index.html | Apply sdnext & read the sdnext-servlet config | Scan Controller for “index” request mapping | Apply prefix & suffix to the view object and show it’s content |
| Add.html (click add new employee) | Sdnext & scan controller for mapping | Scan controller for “add” request mapping | modelAndView (model-employees & view addEmployee) | Apply prefix& suffix display form and optionally the table for existing records |
| Save.html (click on add employee button) | Sdnext & scan controller for “save” request mapping |  |  |  |
| Edit.html | Sdnext & scan controller for “edit” request mapping |  |  |  |
| Delete.html | Sdnext & scan controller for “delete” request mapping |  |  |  |

File 🡪 New 🡪 Spring Starter Project (In STS)

Name of the app – day26datajpa (maven, jar, java, 8, com.revature, datajpa, com.revature.datajpa)

Dependencies (devtools, h2, mysql, postgre, datajpa, spring web)

Accounts

Id (int), account\_type (saving, checking, current, loan, deposit), min\_balance (int), interest\_rate (float)

https://www.baeldung.com/spring-jpa-like-queries

https://howtodoinjava.com/spring-boot2/crud-application-thymeleaf/