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SPRING FRAMEWORK

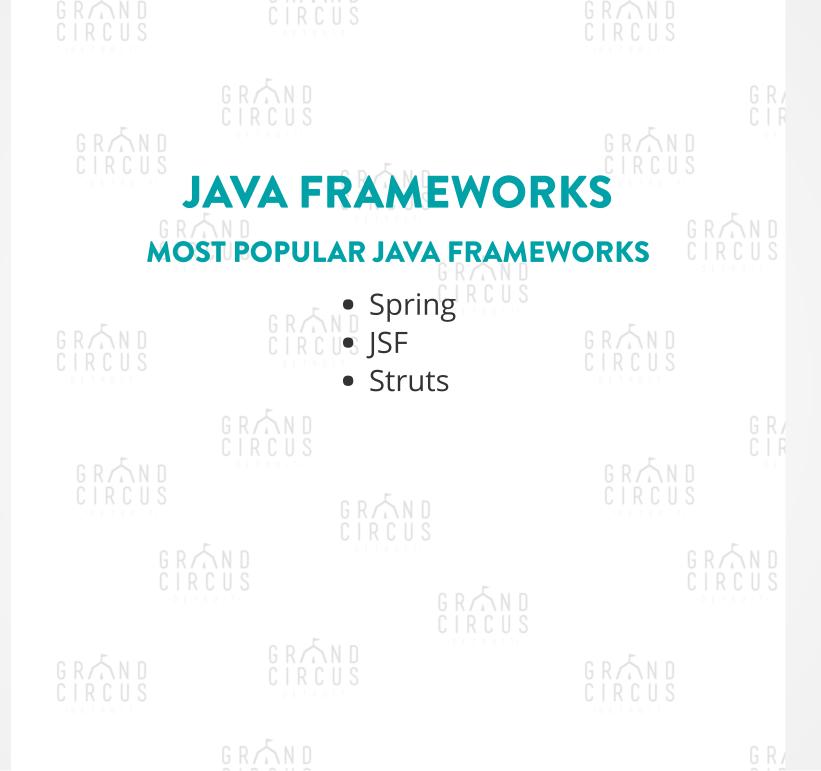




GRAND JAVA FRAMEWORKS CUS

FRAMEWORKS

- Frameworks are a group of tools and models that are built to help programmers to build complex and extensible applications.
- Programmers use frameworks to reduce the development time and make the programming process easier.



JAVA FRAMEWORKS - SPRING

SPRING

- Spring is the most used Java framework!
- Large group of libraries to program enterprise applications.
- Has projects for Data, Security, Big Data, Mobile, Web services, and more.
- https://spring.io/







JAVA FRAMEWORKS - SPRING

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Spring Framework Web (MVC / Remoting) Data Access / Integration ORM JDBC WebSocket Servlet OXM **JMS** Web Portlet **Transactions AOP** Aspects Instrumentation Messaging **Core Container** SpEL **Beans** Core Context Test

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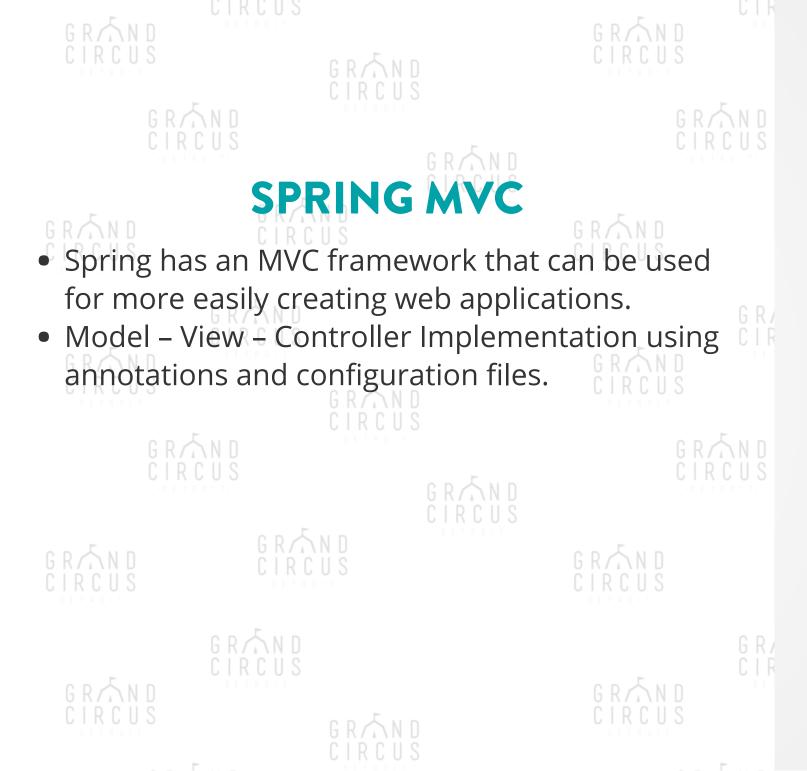
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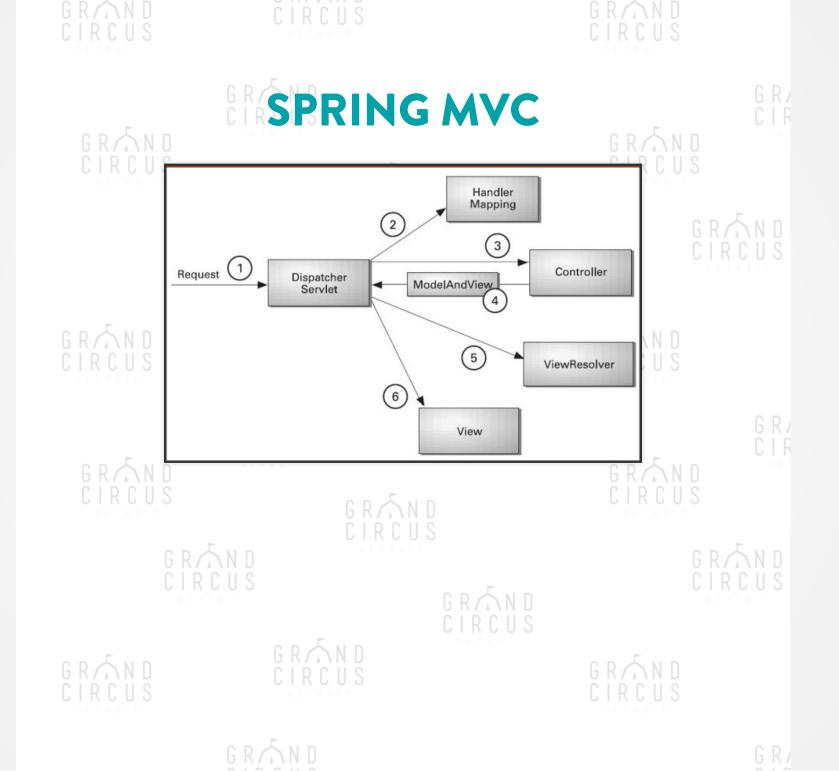
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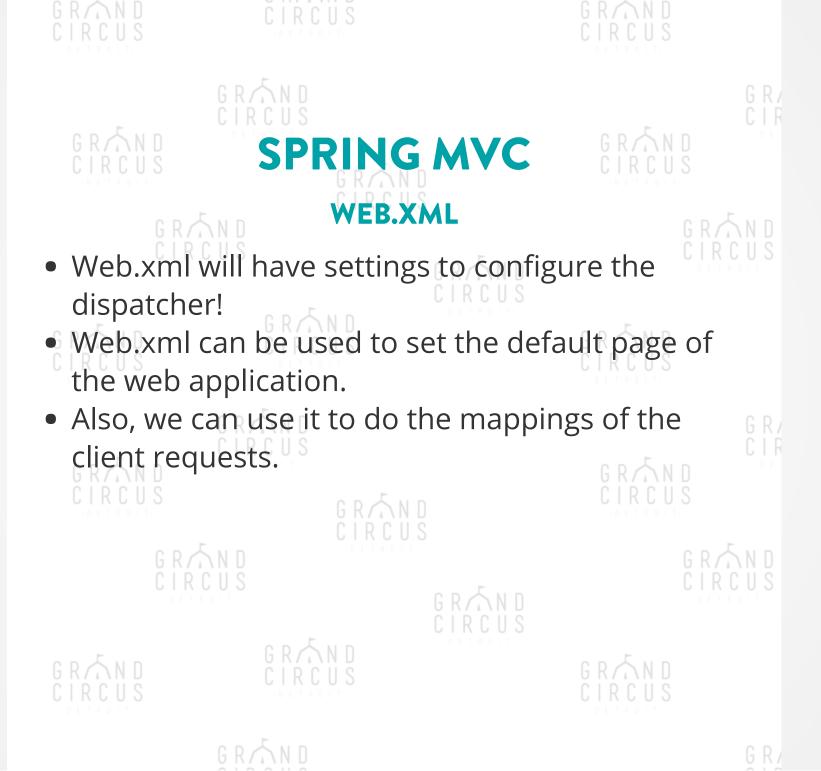


GRAND SPRING MYC **HANDLING REQUESTS** 1. Incoming request is handled by the DispatcherServlet (front controller). 2. The DispatcherServlet looks at the web.xml to find the handler mapping. 3. The DispatcherServlet forwards the request to the controller.

SPRING MVC

HANDLING REQUESTS (CONT.)

- 1. The controller processes the request, and then returns the Model and the View to the DispatcherServlet.
- 2. The DispatcherServlet then checks the web.xml again at the view resolver section to know the specified view component.













WEB.XML

- < welcome-file-list>
 - < welcome-file>index.jsp< /welcome-file>
- < /welcome-file-list>
 - < servlet>
 - < servlet-name>dispatch< /servlet-name>
 - < servlet-class>
 - org.springframework.web.servlet.DispatcherServlet
 - < /servlet-class>
 - < load-on-startup>1< /load-on-startup>
 < /servlet>
- < servlet-mapping>
- < servlet-name>dispatch< /servlet-name>
 - < url-pattern>*.html< /url-pattern>
- < /servlet-mapping>
- < /web-app>





















DISPATCHER

- < context:component-scan base-package="com.testSpring2.controller" /> < context:component-scan base-package="com.testSpring2.controller2" />
- < bean id="viewResolver"</pre>
- class="org.springframework.web.servlet.view.UrlBasedViewResolver">
- < property name="viewClass"</pre>
- value="org.springframework.web.servlet.view.JstlView" />
 < property name="prefix" value="/WEB-INF/jsp/" />
 < property name="suffix" value=".jsp" />

- < /bean>



























GRÁND **SPRING MVC**

CONTROLLER





```
public class testSpring2HelloWorld {
  @RequestMapping("/welcome")
public ModelAndView helloWorld() {
  String message = "Hello World!";
return new ModelAndView("welcome", "message", message);
```













@RequestMapping(value = "/index", method = RequestMethod.GET)

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APACHE MAVEN

- Maven is a software project management tool that is used to manage the project's build, reporting, documentation, and testing.
- https://maven.apache.org/
- POM (Project Object Model) is the file that Maven uses to load the required dependencies.
- Similar software: Gradle, Ant





POM.XML

DEPENDENCIES: S

- < dependencies>
 - < dependency>
 - < groupId>org.springframework< /groupId>
 - < artifactId>spring-context< /artifactId>
 < version>4.2.4.RELEASE< /version>
- < /dependency>
- < /dependencies>
- < groupId>:< artifactId>:< version> is the full name for the dependency