**SPRING CORE**

Programming Language (ex: Java) we can develop desktop apps

Technologies ( Ex: Servlets & JSP, JDBC) we use to develop web application

Framework (Struts,Spring) we use to develop web/standalone/distributed applications

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What is Framework

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=> Framework is a semi developed software

=> Frameworks providing common logics for application development

=> If we use frameworks then we need to focus only on business logic

=> Using frameworks we can do more work in less time (productivity)

=> We have several frameworks in java community

1) JSF -----------> outdated

2) Hibernate -----> data jpa

3) Struts -------> out dated

4) Spring ---> SpringBoot ----> trending

=> Hibernate is an ORM framework.

=> ORM means Object Relational Mapping

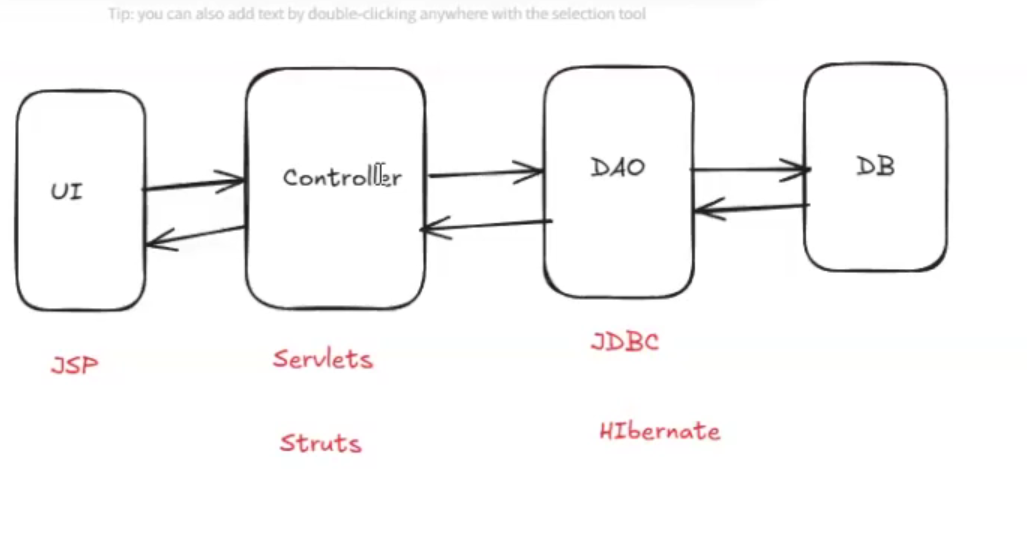
=> Using Hibernate we can develop persistence layer

=> Hibernate developed on top of JDBC.

=> Struts framework developed by Apache

=> Struts is used to develop only web layer or controller

in Struts Framework , There is not any provision for Database connectivity, So we used hibernate for this purpose.



=> Spring is called as application development framework

=> Using spring we can develop entire application including DB connectivity

=> Spring is free of cost & open source

=> Spring framework provides common logics required for application development.

Note: SpringBoot is an extension for Spring Framework.

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What is Spring

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=> It is java based framework developed by interface21 company.

Note: Now spring is under license of VMWare.

=> Spring is free and open source framework.

=> Spring is called as Application development framework.

Note: We can develop all the layers of application using spring framework.

=> Spring Framework developed by "Rod Johnson"

=> Spring 1.x released in 2004

=> The current version of spring is 6.x version

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What we can develop using Spring

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1) Stand-alone apps (desktop)

2) Web Applications (C2B)

3) Distributed Applications (B2B)

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Spring Architecture

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=> Spring developed in modular fashion

Spring 1.x => 7 modules

Spring 2.x => 6 modules

Spring 3.x to 6.x => 20+ modules....

Note: Spring is loosely coupled framework.