Struts 2 – web app framework used for developing java ee web applications –

Multitiered and scalable

Mvc pattern

Popular java web framework

Easier to learn as compared to spring jsf or hibernate

What is a framework , what is mvc

Struts 2 architecture

Struts 2 tags

Internalization

Integration with db

What is mvc

Model view controller – architectural pattern – governs architecture of application

Model view controller – separation of concerns

Client 🡪 server 🡪 db

Multiple ppl working inside the server

Pass request to model

Model – talks to db

View – html

Controller – redirects the requests

Model talks to db 🡪 executes business logic

View is what user sees on the screen

Controller takes request params 🡪 and interacts with model and view

Model – java class

View jsp page

Controller is servlet or servlet filter

What is a framework ?

Collection of libraries

Difference between framework and library

If we use library, we are in control of the flow of the application (our app code is in control)

If we use framework 🡪 the framework is in main control of the flow of the application 🡪 hence u might not even need a main method in the application

Main difference between library and framework

Framework provides infrastructure for our code

Framework no need main method 🡪 flow of control is not in your hands

Framework makes us write application by following a pattern

We dun need to care about the design of our application

Framework makes our application maintainable in future

Intro to struts 2

Login page 🡪 when u click login 🡪 it becomes an action 🡪 eg LoginAction 🡪 an action in struts 2 is basically a java object

Action class we will have to write

Action will return a code 🡪 based on code, framework will show different page to user .. but how does framework know what to show ? 🡪 how the framework decides which jsp to show based on which returned result ? 🡪 xml file

1. Action class
2. Jsp page
3. Xml file

These 3 above we will have to write

Struts 2 architecture

Diagram

Description automatically generated

Interceptor 🡪 invoked b4 and after action