

# **STRUTS - INTRO**

#### **NOTES**

- STRUTS USED ON COMPLEX FRONTEND APPS.
- IT USES MVC MODEL
- Controller is implemented via servlet JAVA.
- This configuration file (struts-config.xml) is essential for setting up the MVC (Model-View-Controller) architecture in Struts, where a single servlet acts as the controller, and JSPs are used for the view.
- · Each url we associate to it an action.

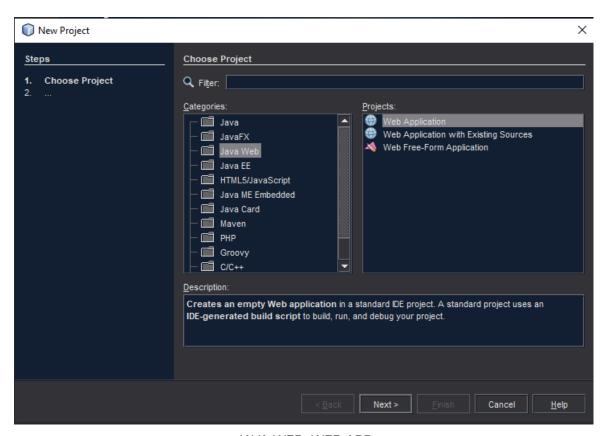
### **QUESTIONS**

#### ▼ STRUTS:

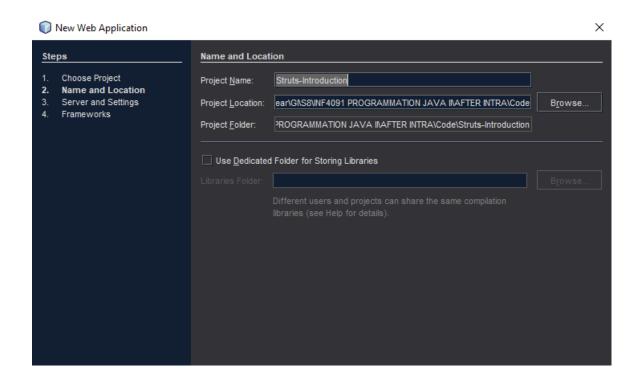
▼ How to validate data? with validate attribute in action

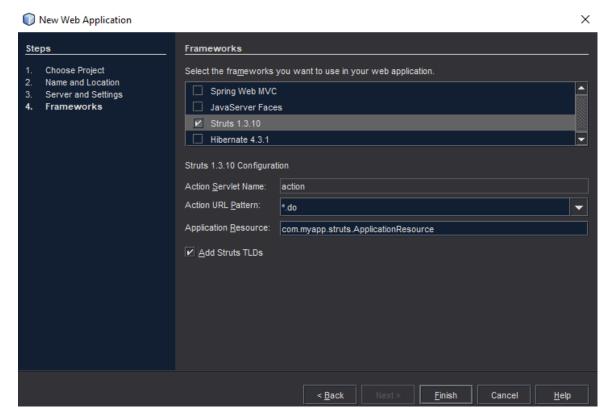
## **PROJECT WALKTHROUGH (Factorial)**

## **▼ CREATE PROJECT STRUTS**

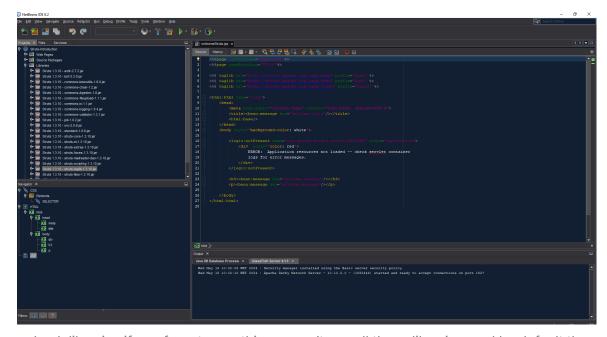


JAVA WEB, WEB APP





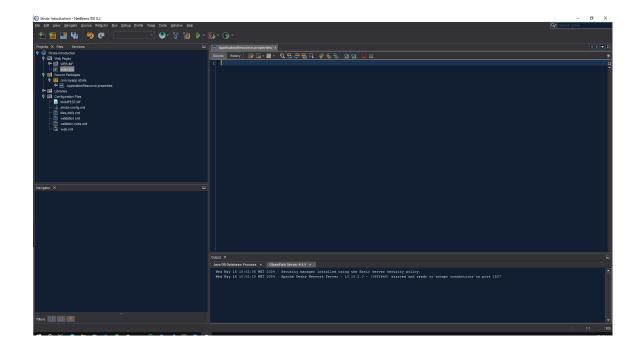
Tag Library Descriptors (to use struts tags, you'll need to check that option)



check libraries if you forgot something u won't see all these libraries, and by default the first page is <a href="welcomeStruts.jsp">welcomeStruts.jsp</a>

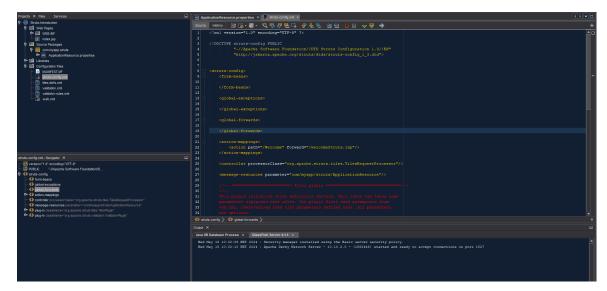
## **▼ MANIPULATION**

Just delete the page WelcomeStruts.jsp and the content in ApplicationResource.properties

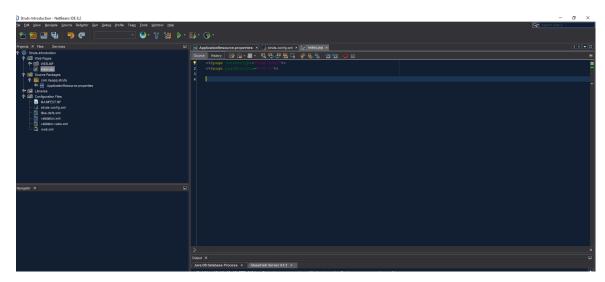


• In <a href="struts-config.xml">struts-config.xml</a> Delete the action <a href="welcome.do">welcome.do</a> as we didn't create it and it was added by default in our project

before deleting the action



After deleting and saving!

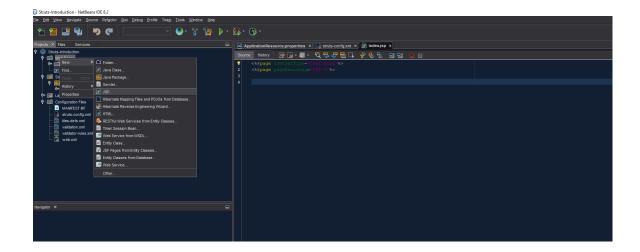


Delete the jsp forward and start creating your own view with the controller...

## **▼ CREATE JSP PAGE**

So, in this first example we will be creating a page that calculate factory of a number...

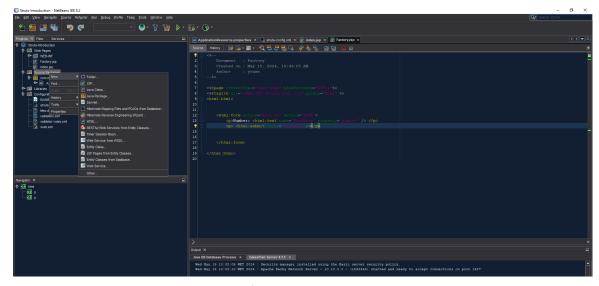
- **Example:** 3! = 6
- Let's start by creating the jsp page



• Fill it with struts tags, not html

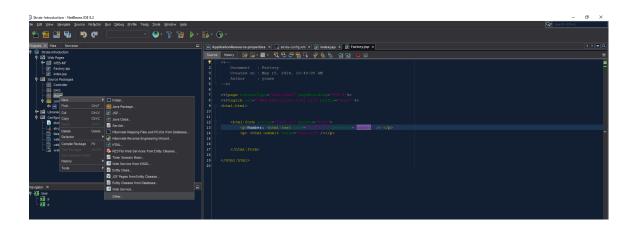
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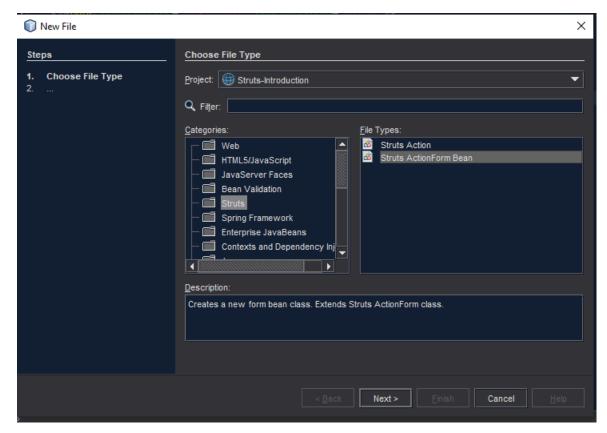
• Create our packages for organi purposes

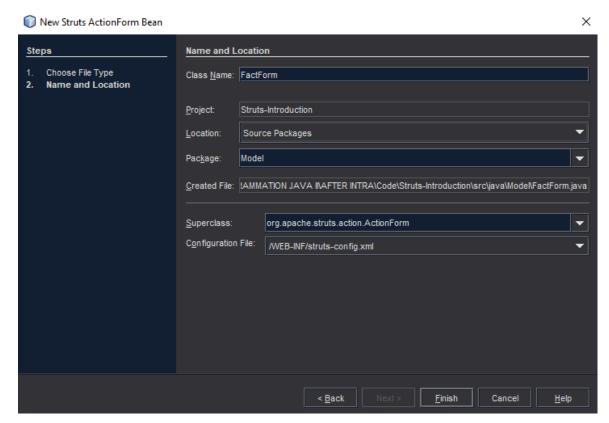


I created 3 packages: DAO(Data Access Object), Controller and Model

• Then in the Factory.jsp we will





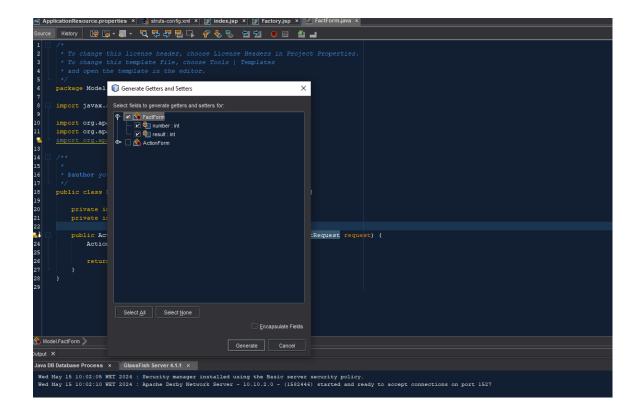


the same name as the model in the view

 Then delete the getters and setters by default, and add my own attributes I'll be using number and result

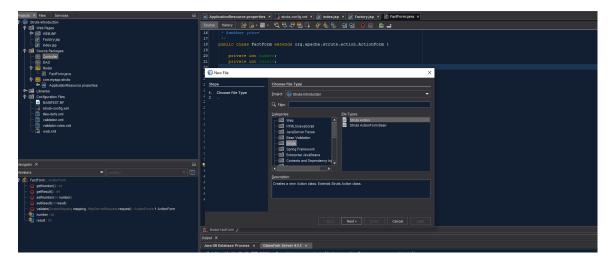
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Add getters and setters for the attributes we added



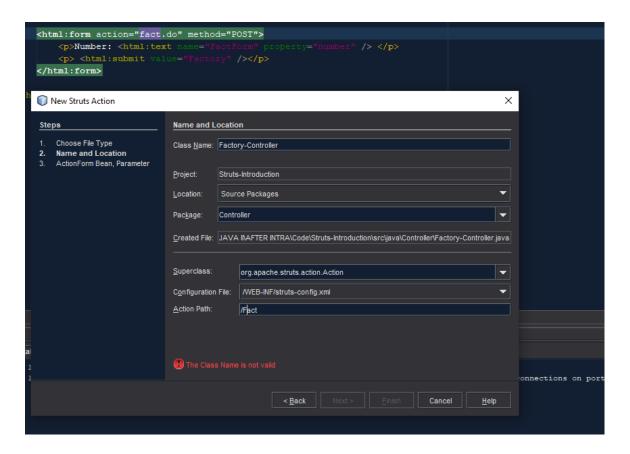
NB: If you go back to the struts-config.xml, you'll notice we have the model declared in it

 Now we will need to create the action fact.do which will be created in the controller package!

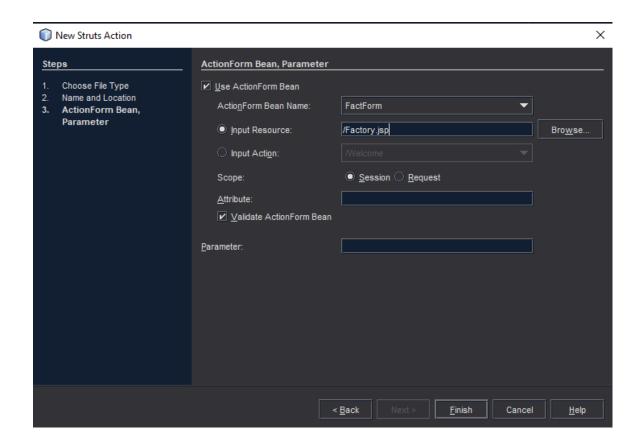


Now we will be using Struts Action

Don't forget add the path the same as the one you typed in the jsp page



 And then ActionForm will be used the one we created earlier FactForm and for the input the jsp page which is Factory.jsp



Then import the FactForm in your controller

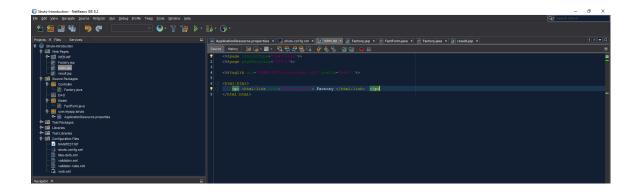
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delete the uneccessary things

Add the logic in your controller

• Go create the result.jsp page!

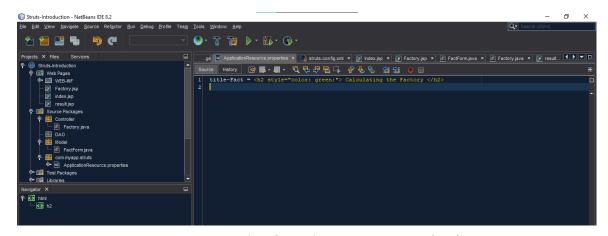
• Fill the index page to link the index with the logic of the



Go back to struts-config.xml and add the global-forward for the result page

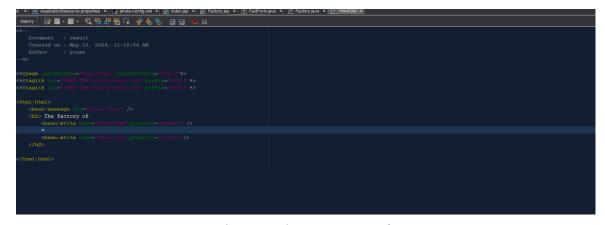
Finally you can add a message with the style from

ApplicationResource.properties



we added the title-fact with a custom style (css)

• Then the last thing just call title-fact in result.jsp page



use bean:message to retrieve localized messages from resource bundles