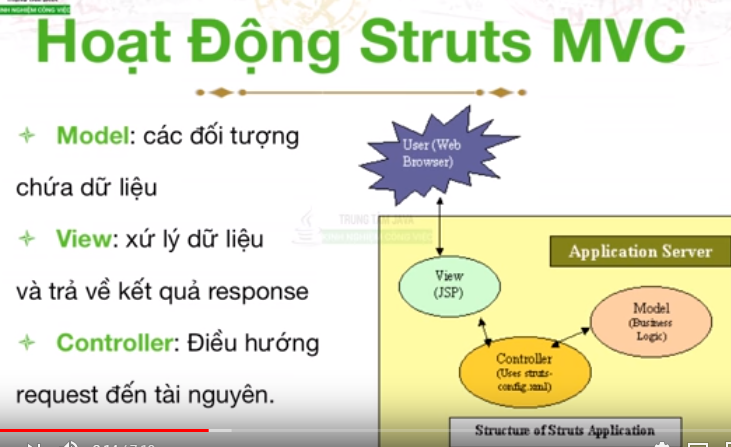
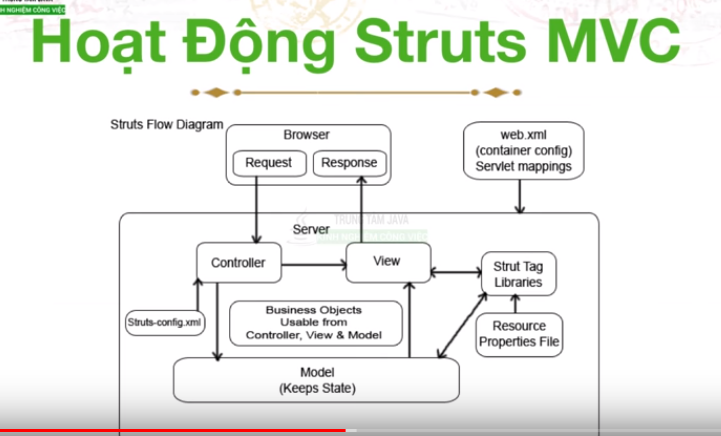
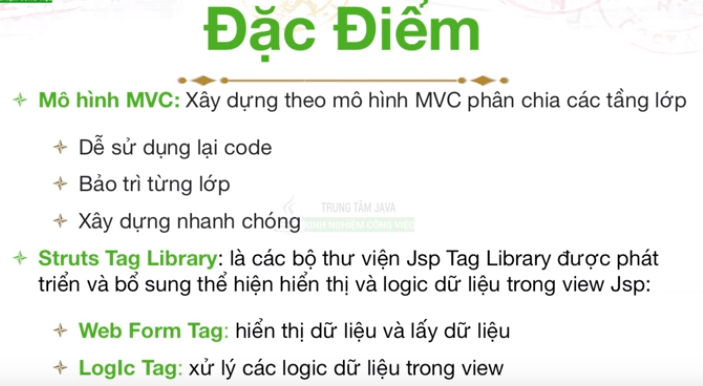
**Struts 1**

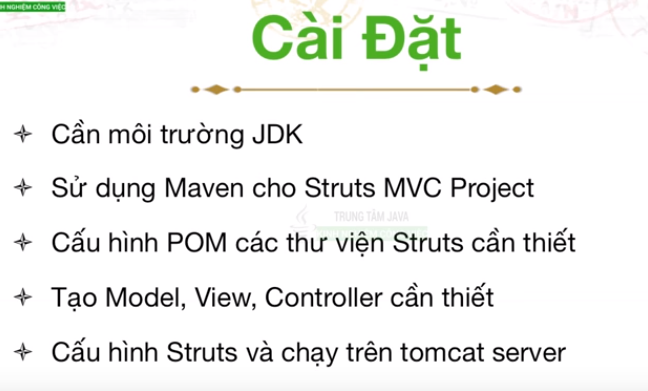
* introduce



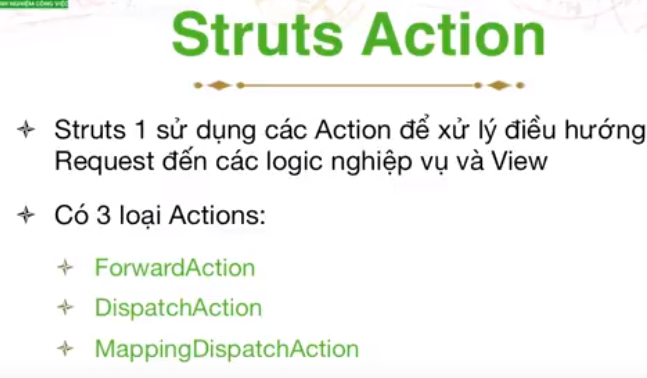








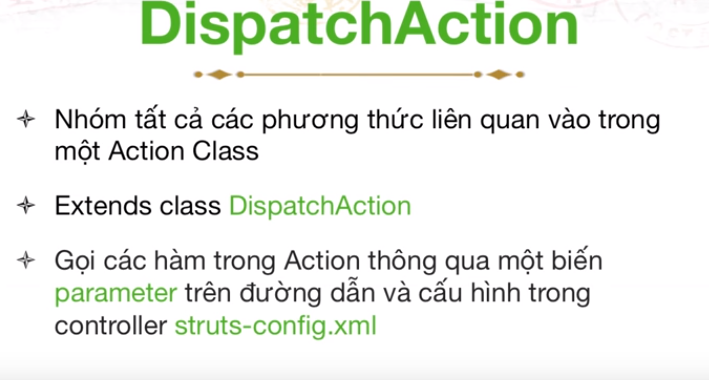
* Struts Action- Forward Action



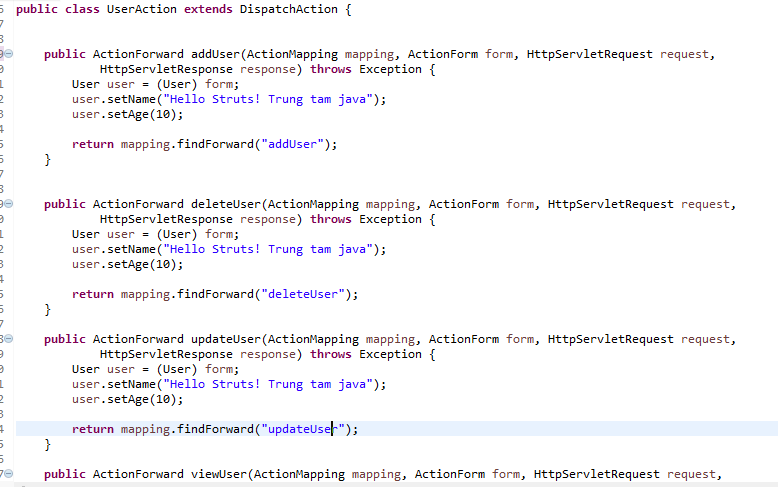




* Struts 1 DispatchAction



* Action



* File xml



URL : http://localhost:8080/HelloWorld/user.do?m=addUser

* Struts 1 – MappingDispatchAction

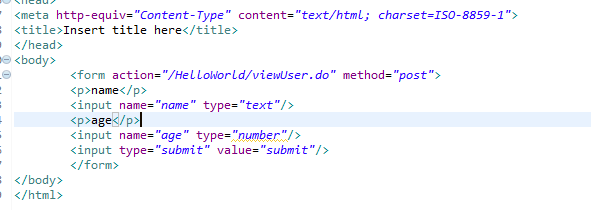


# Struts 1 - Request Parameter

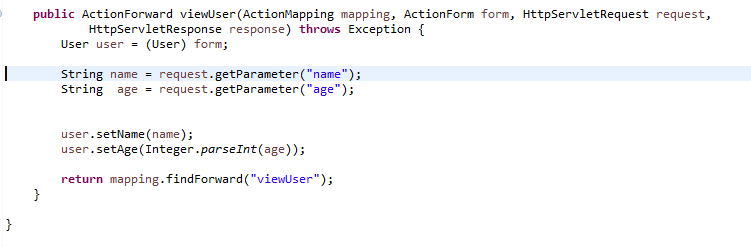
# Form bean

# 

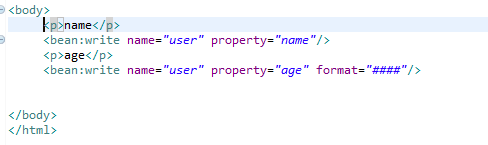
* Input



* Action



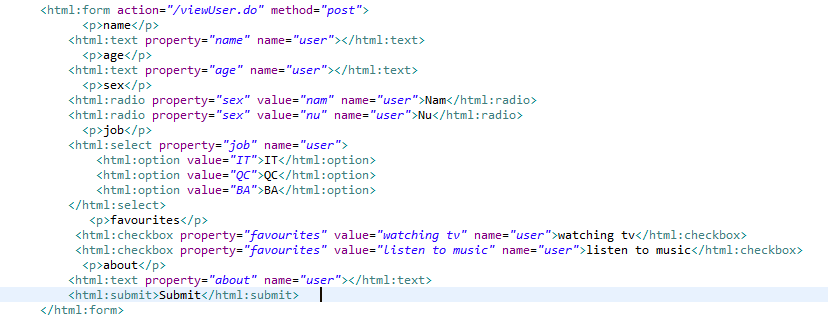
* Output



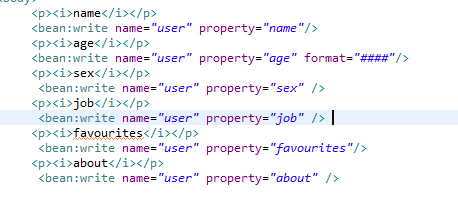
* Struts struts-form



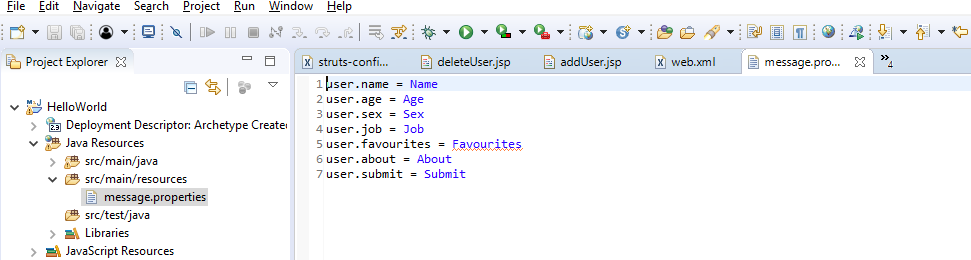
Input



Output



* Struts Messages

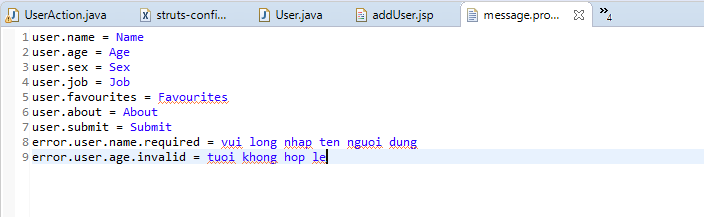


JSP



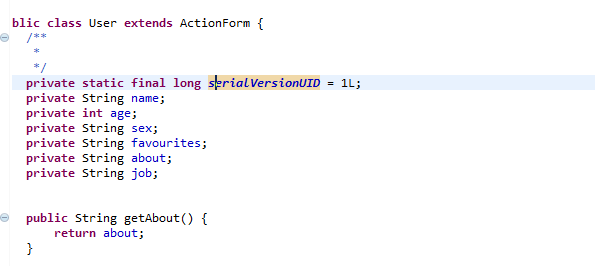


* Form validation
* File properties

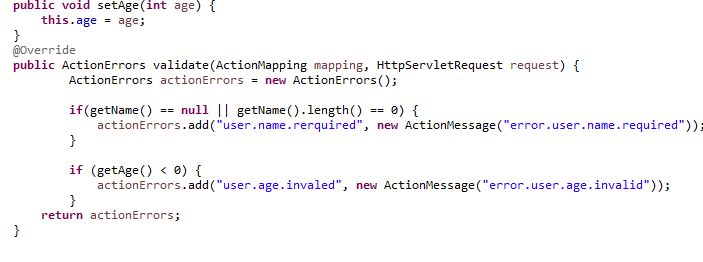


* In bean

Generate serialversionUID and override method validate



Key in file properties



property

* In file input

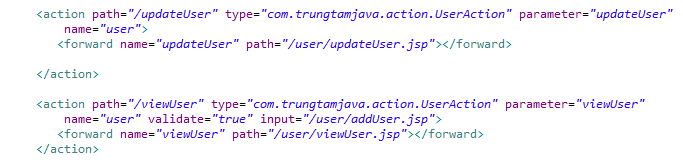
Print all information error



Print detail error

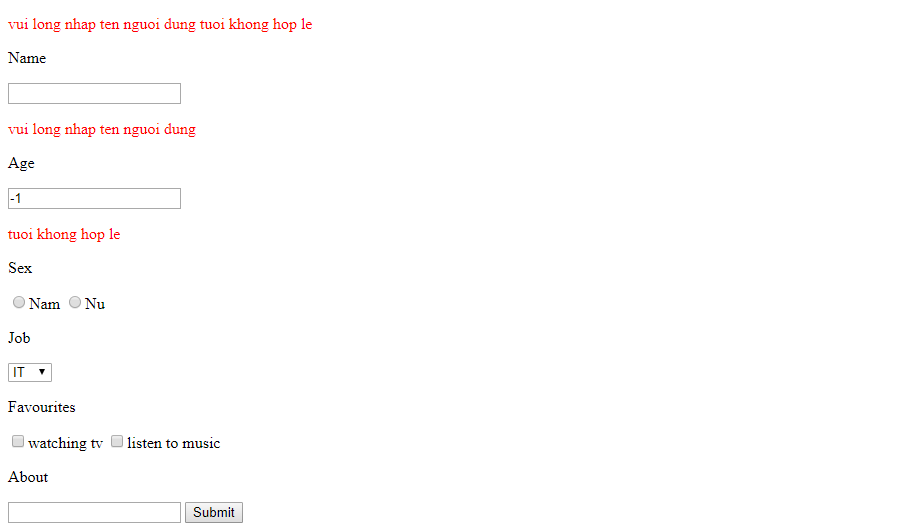
Property in method validate

* In file struts-config.xml



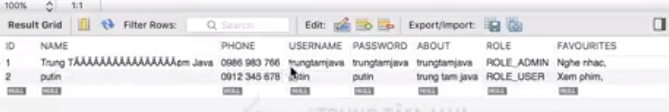
Return this path when apprear error

Result

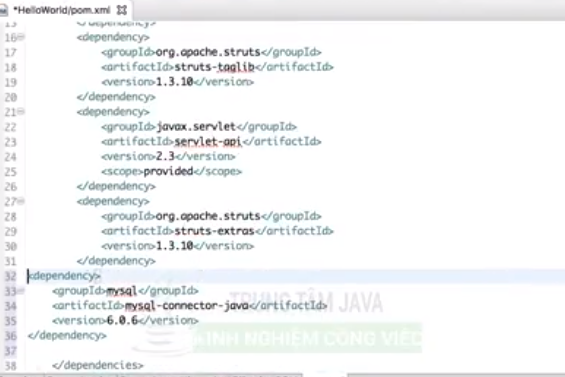


* Struts JDBC
* We have table USER in mySql



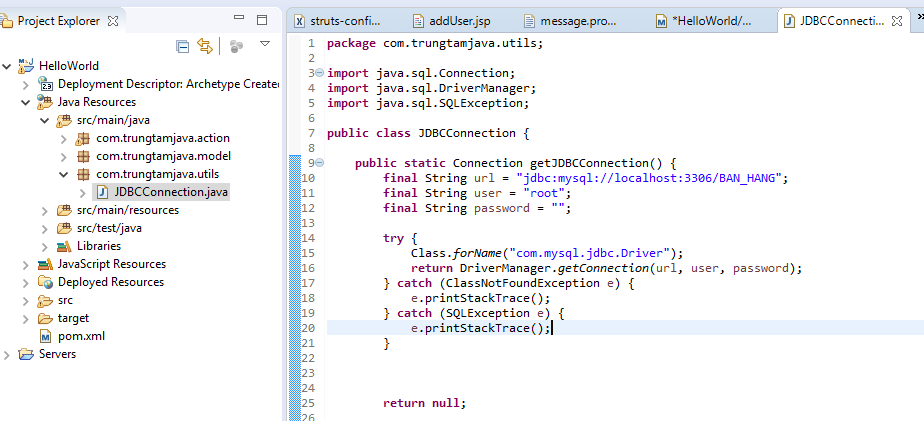


* In file pom.xml download dependency

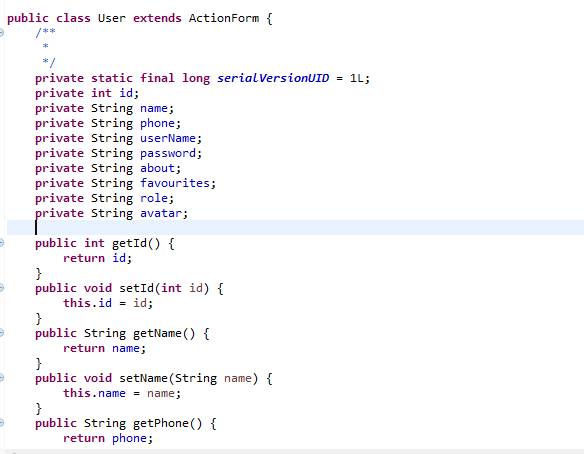


* Create package com.trungtamjava.utils

and class JDBCConection



* In class User



* Create package com.trungtamjava.dao

And class UserDao

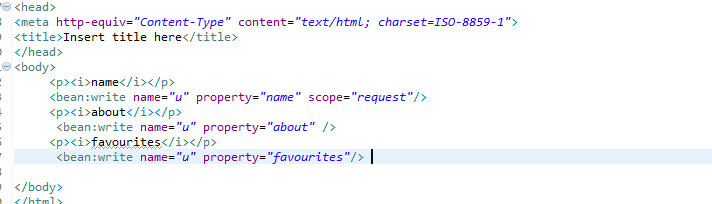


Write or get data from database

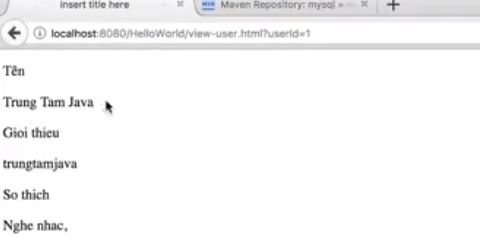
* In class action



* Output



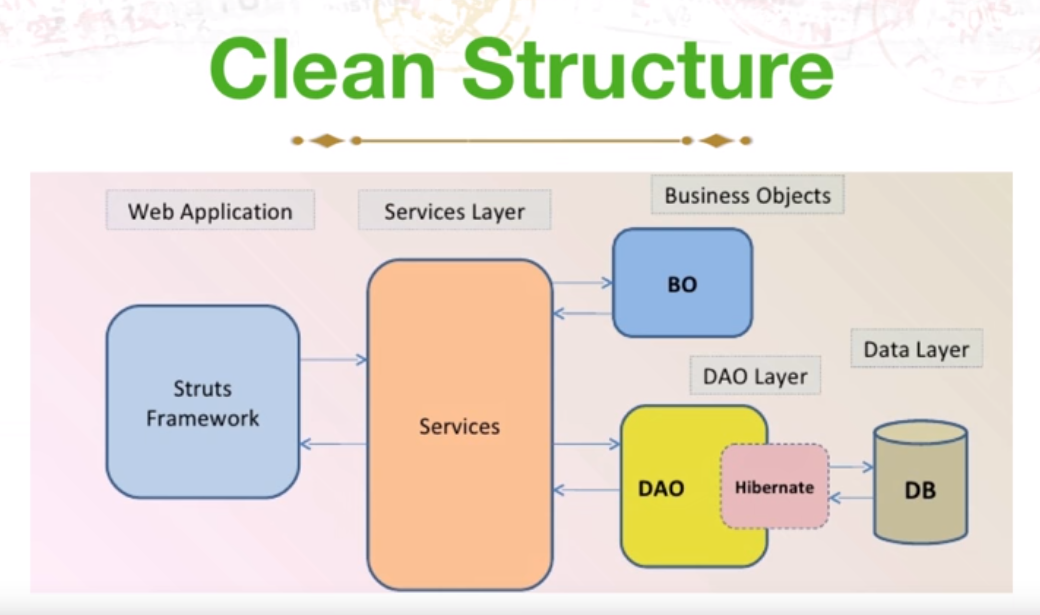
Result



Data was got from database

* Clean Structure + struts MVC

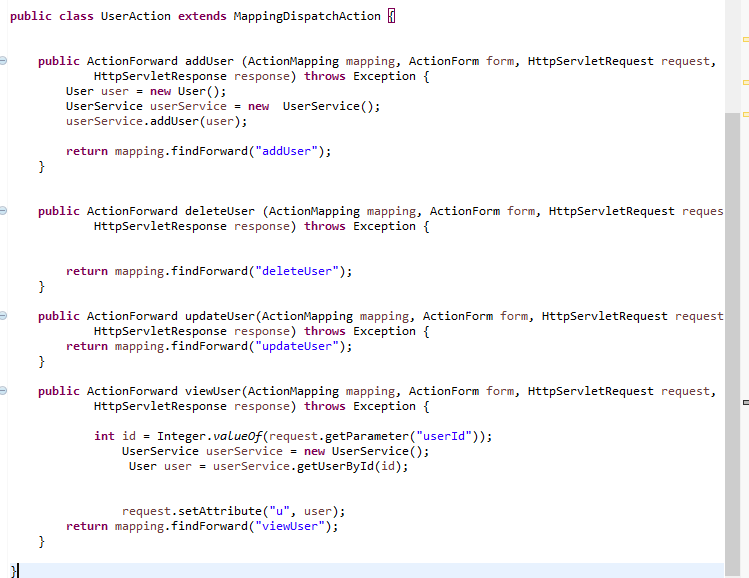
Make code easy see and review



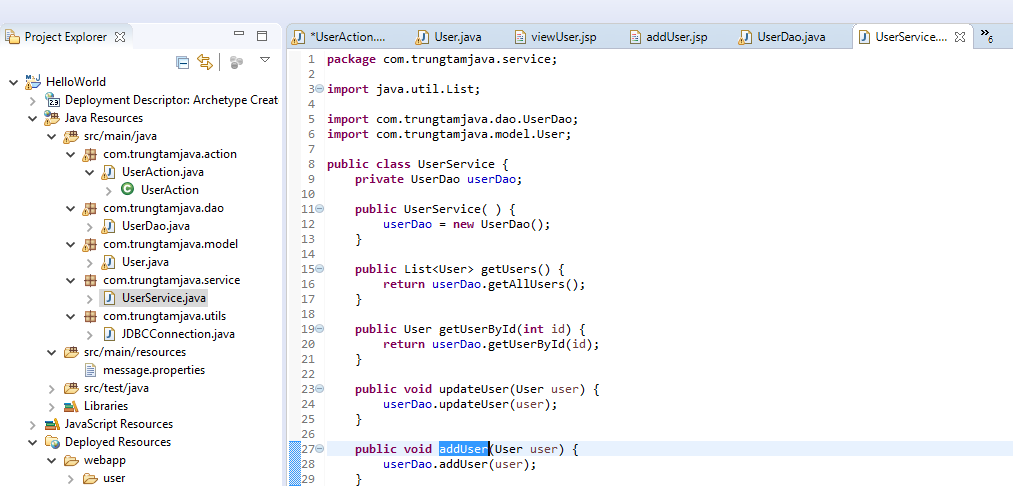
* Create com.trungtamjava.service

And class UserService (contact beween class Dao and Action)

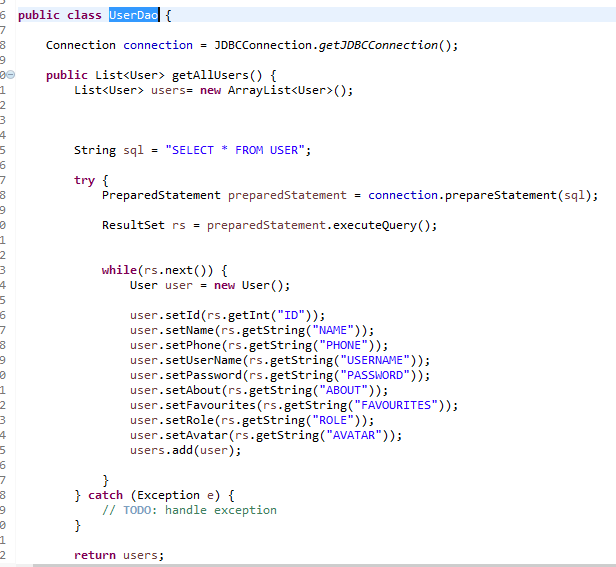
* Class UserAction



* Class UserService



* Class UserDao



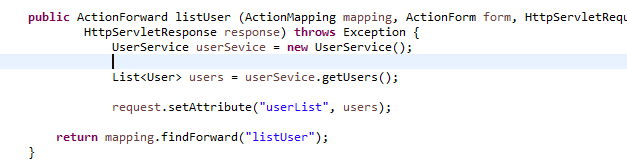




* Struts logic tag

Dùng để tính toán logic dữ liệu, lập đi lập lại dữ liệu trong vòng lặp for, so sánh dữ liệu bằng thông tin nào đó

* UserAction



* ListUser.jsp



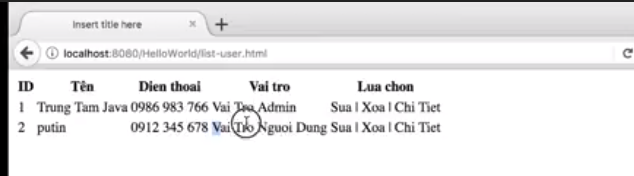
Similar to variable

Similar to loop for()

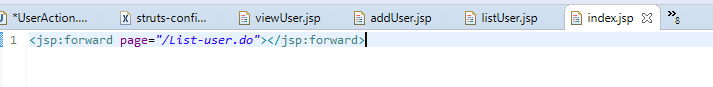
From file properties

From setAttribute() in action

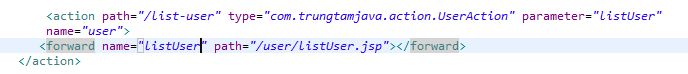
Result



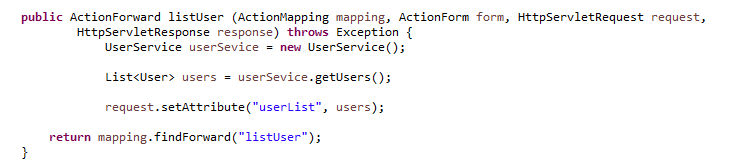
* Thực hành Struts 1
* Add user
* Start listUser



* Struts-config.xml

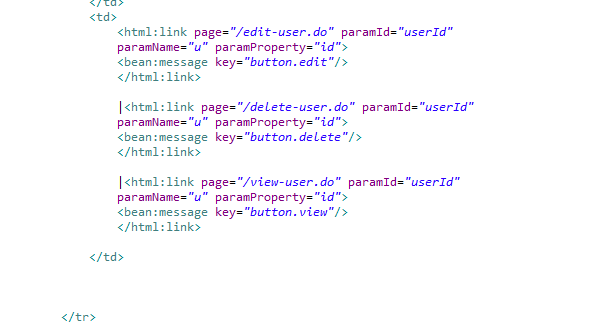


* UserAction

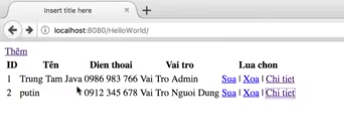


* ListUser.jsp



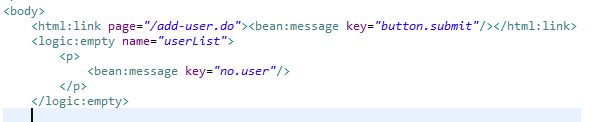


Result

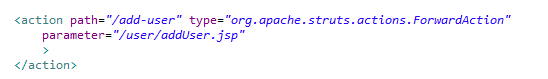


------------------Click them----------------

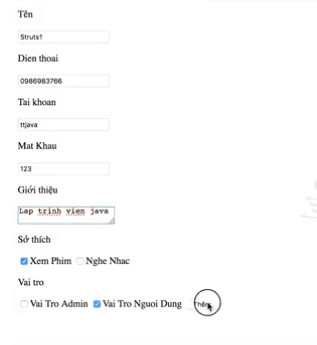
* ListUser.jsp



* Struts-config.xml



Result

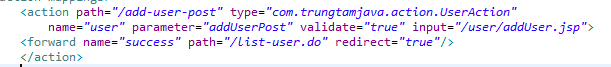


* AddUser.jsp

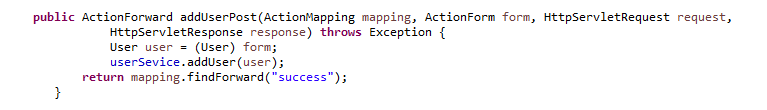


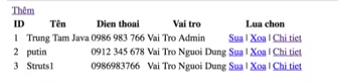
Redirect list-user.do to list user after add

* In struts-config.xml

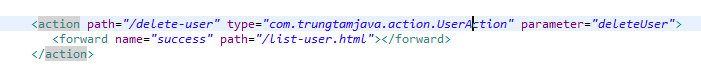


* UserAction

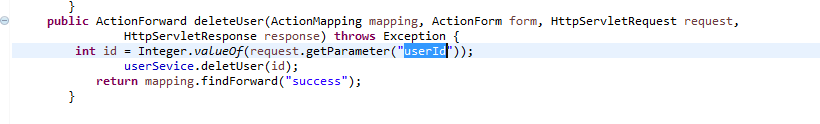


 Result

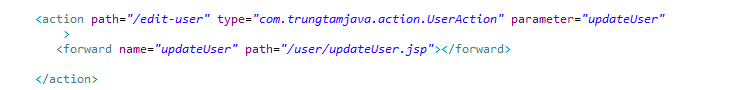
* Delete
* In struts-config.xml

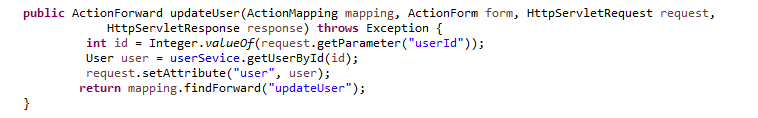


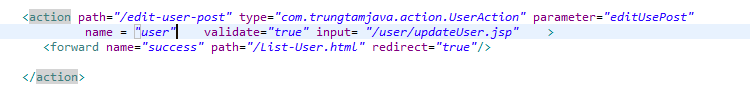
* In UserAction. Java



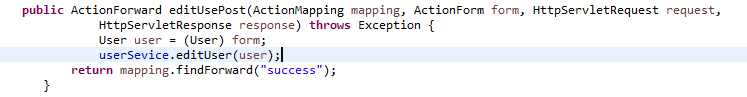
* Edit User
* In struts-config.xml



* in UserAction.java
* in updateUser.jsp
* In struts-config.xml

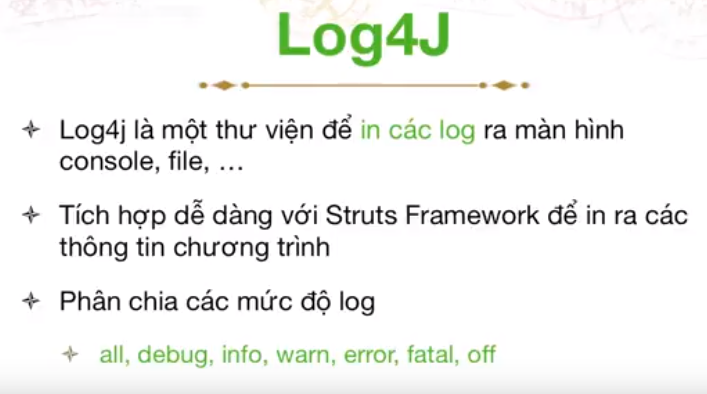


* In UserAction

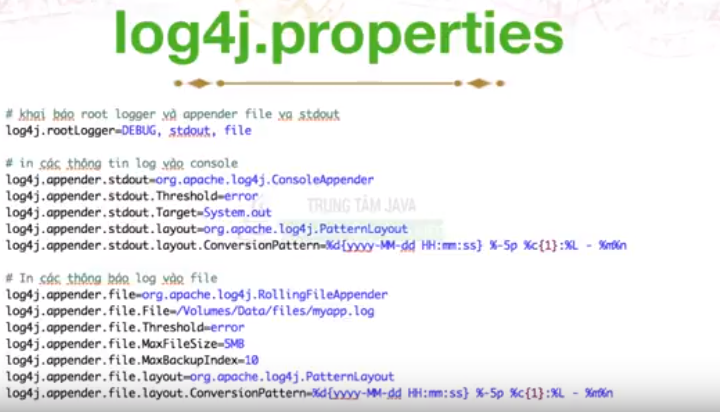


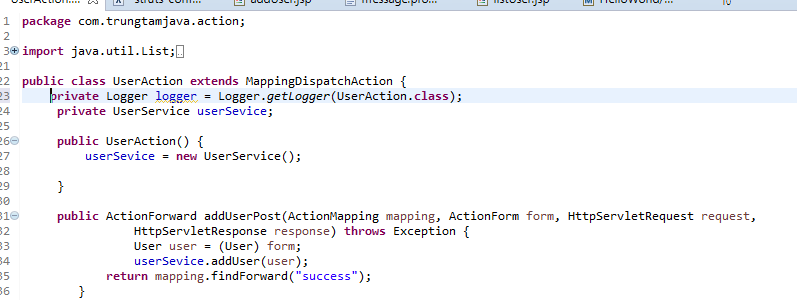
* Struts Log4j

Log các thông tin chương trình

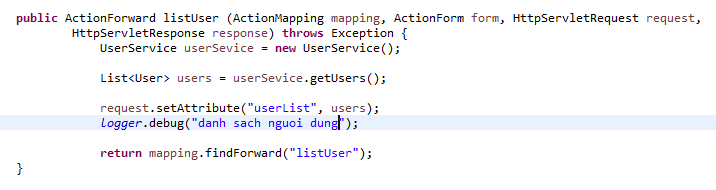




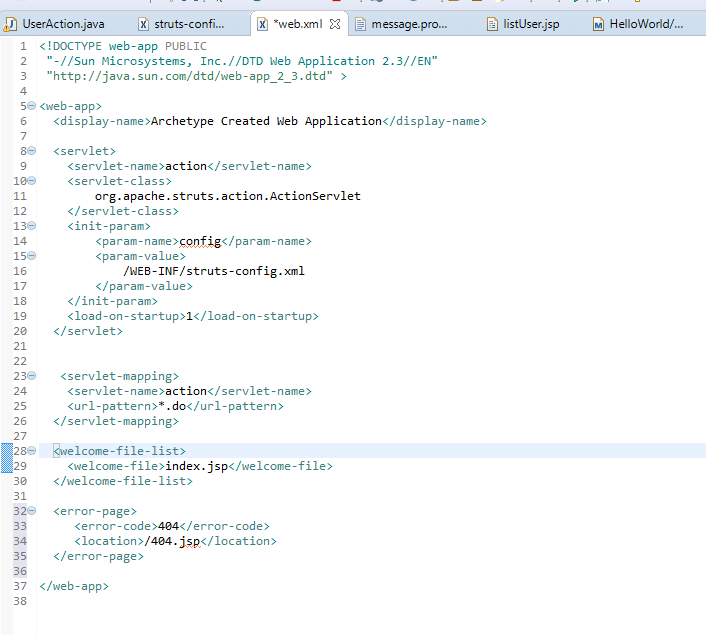
* create file log4j.properties in src/main/resources



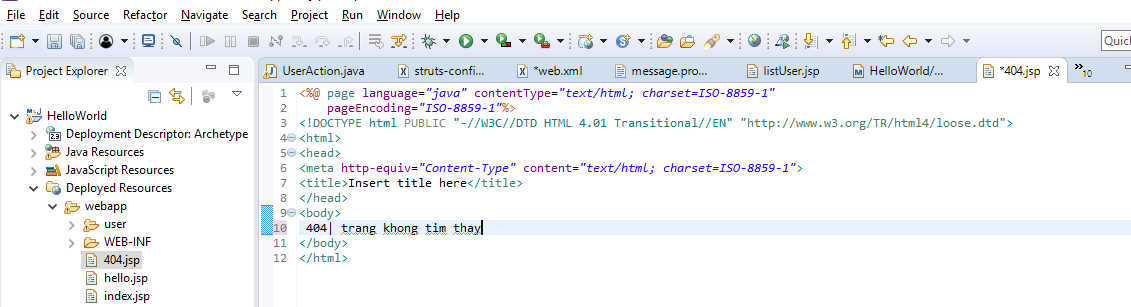
Log class error



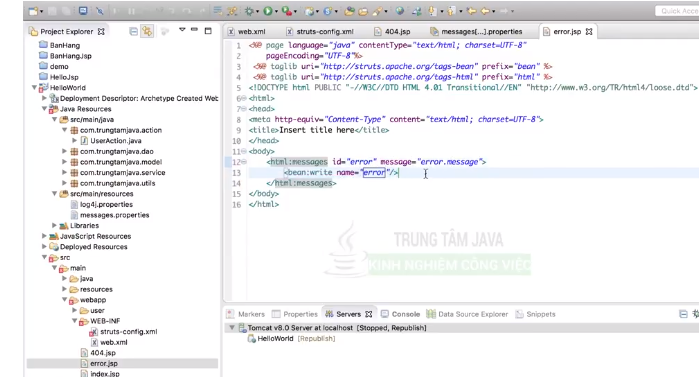
* Struts error handler



* In webapp create file 404.jsp



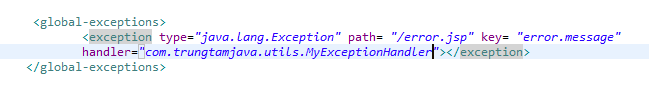
* Global exeption

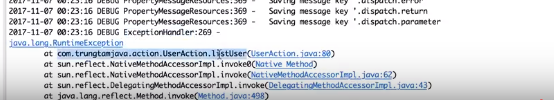


Create class MyExceptionHandler extend from ExceptionHandler

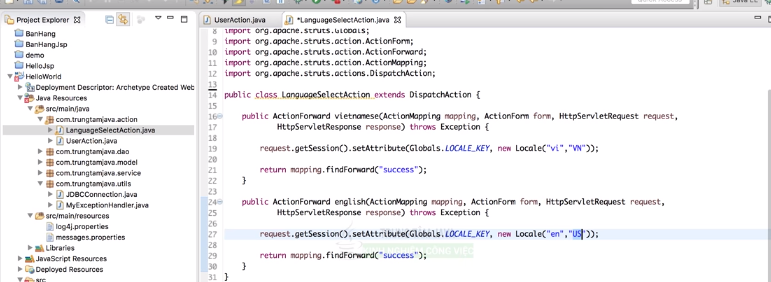


In file struts-config.xml



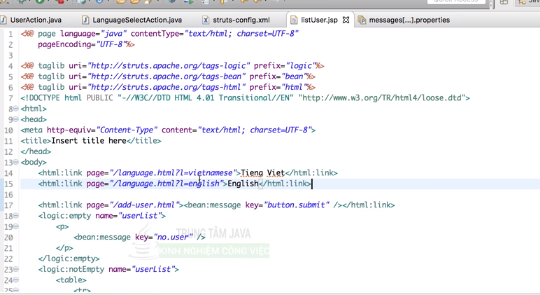


* Struts 1 đa ngôn ngữ
* Create class LanguageSelectAction



* File Struts-config.xml





* Create file message.property by English and vietmese

