5 Years Integrated M.Sc. (IT) - 7th Semester
Question Bank

060010710: Java Framework

Unit-1

Short Question [1 M]

1. What is the default theme of Struts2?
2. Which themes are supported by Struts2? List any two names.
3. Struts2 integrate with other framework like spring. Give True or False.
4. Suppose user have one login.xml file in which there is a login related package, write a code to add this(login.xml) file into struts.xml.
5. Which tag is used to display value of action class in browser?
6. How to give alias name to file?
7. Consider the following code:
   <action name="Get*" class="com.action.{1}Action">
       <result>/WelCome.jsp</result>
   </action>
   If user enter "GetLoginAction" in URL then which file will be called?
   Note: There are two action Class called "GetLoginAction.java" and "GetBookAction.java".
8. List the different way to create property file.
9. Assume that there is a model class called "LibModel" write a naming format for this property file.
10. Write one usage of Model Object.
11. What is action class?
12. Who handles the method invocations in action class?
13. User can create more than on action class. State True or False.
14. What is the work of action class?
15. Define POJO based action class.
16. List constants which are provided by Action interface.
17. What is the purpose of struts.xml?

Short Question [2 M]

1. Write four advantages of Model2 over Model1
2. List problems of Model1.Explain any two.
3. List any two-key difference between Model1 and Model2.
4. List out different ways to write Struts2 action class. Explain any one.
5. How does framework handle conflicts when there are multiple wildcard?
6. How to display value of action class in browser?
7. How you can override default execute method in your application?
8. Write the purpose of overriding default method.
9. List two key differences between Action interface and ActionSupport class.
10. List types of property file. Give naming format of property file which apply for whole application.
11. List the interfaces which are implemented by ActionSupport class. Write any one.
12. Write one usage of action tag. List the attribute of action tag.

Long Question [5 M]

1. Explain Model 1 Architecture. OR How Model1 architecture work? Explain it.
2. Explain Mode2 Architecture.

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3. Explain Struts2 Architecture. OR Explain the user's request life cycle of Struts2.
4. What are the features of Struts 2? Explain any five.
5. What is the purpose of ModelDriven Action? Explain it with suitable example.
6. List the way to create action class. Explain all with appropriate example.
7. How to add different types of action method in a single action class? Explain it with suitable example.
8. What is Business Service method? Write one advantage of it. How to implement it? Explain it with suitable example.
9. Explain the core components of Struts2.

Unit-2

Short Question [1 M]
1. Define Interceptor.
2. Can we create more than one interceptor in our application?
3. For creating user define converter class, which class user have to extends?
4. Which methods need to override for user define type conversion?
5. Define OGNL.
6. List the tags which are used for configure the default interceptors.
7. List five interceptor which are given by struts2.
8. What is struts-default?
9. Assume that user want to use fileUpload interceptor in application, in which file user have to configure the interceptor in application?
10. Write one usage of alias interceptor.
11. Which interceptor is used to support file upload in struts2?
12. Does the interceptor is thread safe?
13. What is EL?
14. List the tags which are used for configure the custom interceptors.

Short Question
1. Write two usage of Interceptor. [2 M]
2. Write two usage of interceptor stack.
3. What is ValueStack? Write one usage of it.
4. What are the Struts2 configuration properties that control the file uploading process? Write any one.
5. Write two usage of Interceptor.
6. List the tags which are used to create custom interceptor. Write any one.
7. Define struts-default. Write one advantage of it.
8. List two methods of ActionInvocation. Write any one method.
9. Write two advantages of OGNL.
10. Assume that user create one interceptor called "VerifyAccountNo", Write a code which will configure the stated interceptor in application.
11. Write two advantages of EL.
12. Write two advantages of OGNL.

Long Question
1. Explain request life cycle of interceptor. [5 M]
2. How many ways are there to create custom Interceptor class? Explain any one with suitable example.
3. Explain all the tags which are used to configure Interceptors.
4. How user can implement interceptor stack in application? Explain it with suitable example.
5. In which situation user create user define convertor class? Explain it with suitable.

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example.

Unit-3

Short Question **[1 M]**

1. Why it is not necessary to make our action thread safe?
2. Write one usage of data tag.
3. Write a code for getting ValueStack object inside your application.
4. What is the use of constant tag in struts.xml?
5. Which factory method return reference of ActionContext?
6. Define ActionContext.
7. How to get ValueStack object inside your application?
8. Which attribute is used to initiate the bean in to the stack?
9. Write one usage of "var" attribute of bean tag.
10. List out control tags of JSTL.
11. Write one usage of URL tag.
12. Write one usage of key attribute of Text Field.
13. Write one usage of i18n tag.
14. What is JSTL?
15. List implicit object given by JSTL.
16. Write one usage of EL in JSTL.

Short Question **[2 M]**

1. List types of object stored by ValueStack. Explain any two.
2. Difference between set and push.
3. Difference between push and property tag.
4. Difference between set and property tag.
5. Write any two key significance of ValueStack.
6. Which tag is used to display sub item in dropdown box? Write any two attribute of it.
7. On the basis of given code, write the usage of constant tag in struts.xml.
   <constant name="Struts.devMode" value="true" />
8. List out data tags. Write one usage of it.
9. List out UI tags. Write one usage of it.
10. List the attribute of radio tag and write one usage of it.
11. Which tag is used to display value in dropdown box? List the attribute of it.

Long Question **[5 M]**

1. List the way to access property of a class. Explain any two with suitable example.
2. How to use Java Bean in JSP page? Explain it with suitable example.
3. Explain any two miscellaneous tags with suitable example.
4. Explain any two conditional action with suitable example.
5. Explain any two iterator action with suitable example.

Unit-5

Short Question **[1 M]**

1. Define Internationalization.
2. The control logic of the application remains same at the time of using internationalization. State True or False.
3. How web server will get the details of user local?
4. The local details provided by web browser is stored in the server as an object in ActionContext. State True or False.
5. Define localization.
6. Define locale.

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7. What is locale sensitive?
8. Write the way to set the user locale?
9. Which tag is used to access a non-associated resource bundle?
10. Stuts2 can internationalize an application at UI tags and at the field error messages. State True or False.

Short Question [2 M]

1. Write two advantage of internationalization.
2. Write two key differences between internationalization and localization.
3. Write two key reasons for not specifying user locale for every request.
4. Write the step to change the default locale of the web browser.
5. What is ResourceBundle? Write a naming format for ResourceBundle.
6. Write one usage of getText(). If the value is not found in the resource bundle using getText(), which value will be return by getText()?
7. List the tags which are supported by Struts2 for internationalization. Write one usage of reset tag.
8. What is ResourceBundle? Write a naming format for ResourceBundle.
9. On the basis of given code, write the usage of getText().
   <s:property value="getText('someKey)" />
10. Write two key difference between textfield and i18n.

Long Question [5 M]

1. What is internationalization? Explain the usage of it with appropriate example.
2. How to retrieve messages from resource bundle? Explain any two methods with proper example.
3. Write the steps which should be keep in mind at the time of creating internalize an application.
4. Explain the role of text, i18n, textfield and property tag in internationalization with appropriate example.
5. Explain i18n with appropriate example.

Unit-6

Short Question [1 M]

Define Ajax.
1. Define Web Template Engine.
2. What is the use of head tag of Ajax?
3. What is FreeMarker?
4. Define Velocity.
5. Write one key difference between sequence and hash.
6. What is data model?
7. List at least 4 tags which are given by Ajax.
8. Write one usage of Ajax.
9. List the security issue with Ajax.
10. List the technologies used by Ajax.
11. What is Spring Framework?
12. What is Dependency Injection?
13. What is Spring configuration file?
14. What is Hibernate?
15. Write one key difference between JavaScript and Ajax.

Short Question [2 M]

1. Write advantages of Ajax.
2. Write disadvantages of Ajax.

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3. Write the features of FreeMarker.
4. Write elements of the templates.
5. Write advantages of Velocity.
6. Write the features of Velocity.
7. What are the benefits of Spring?

Long Question [5 M]

1. How to implement Ajax in struts2? Explain it with appropriate example.
2. How to implement Spring in struts2? Explain it with appropriate example.
3. How to implement hibernate in struts2? Explain it with appropriate example.
4. How to create templates in struts2? Explain it with suitable example.
5. Write the difference between FreeMarker and Velocity.