Assignment - 8

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Title - Design and develop dry web applications using struts
frameworks

Objectives - - 1. To impart the efficient.

and available client side and

server side technologies.

2. To implement the communication
between computing nodes using

Client side and server side techno logies:

3. to design and implement the web services with content:

management.

Paroblem Statements -

application using struts frameworks.

Outcome - 1. implement the effective Client side and server side technologies Using Struts frameworks. 2. solve the complex problem of development Using Muc frameworks.

Software & hardworks Requirements -Software 'S: Java 1.7 or higher, Apache Tomcat Tor higher, Structs API's Eclipse, IDE.

Theory -

The forameworks plays a vital roles in Industries for manageable and well designed application development as well a entemprise application development.

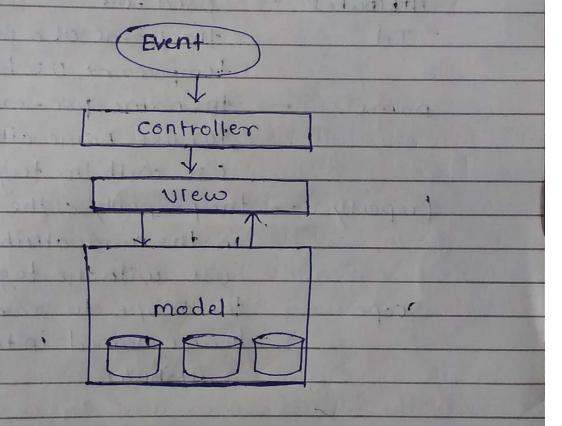
The core of the struts frameworks is a flexible control layer based on standard technologies like Java servlets, Java Beans. Resources Bundles, and XML as well as various common packages.

The Structs system gives the understables underpinings each experts web application needs to survive. Structs Causes you make, an extensible advancements condition for your applications, in view of distributed guideliness, and demonstrated outline designed.

The model-view-Controller Architecture

south to million

"model-View-Controller" is a way to build, application that promotes complete seperations between business logic and presentations. It is not specific to web: application, or java, or JEFF, but it can be applied to building JEFF web applications.



Figs: Basic MVC Architectures.

What is Structs?

- Structs is a foromeworks that adaponces the otilizations of model-View-Controller engineering for planning Substantial scale applications.

The structure incomported on arrangement of custom tabel libraries & their related java classes.

Common Attributes

· Almost all tags provided by the structs frameworks use the followings attibute.

Attibutes = used for

->. The prome of a java bean for

temporary use by the tag.

the name pre-existing bean.

for use name attibutes for

Ose with the tags.

-> the property of the bean named. Property

in the name attributes for

use with the tags.

the scope to search for Scope

bears named in the name

attributes.

Creating Beans -

Beans are created by java code or tage here on examples of bean creation with

Java code:

11 creating a plumber bean in the

request 8cope.

plumber aplumber = new plumber (); request. Set Attibutes Coplamber,

a plumber);

PAGE NO.:

Other Bean Tags -

The Structs frameworks provide other tags for dealings with issue concernings copying cookies, request headers, jsp. implicity defined objects, request parament.

web applications resources.

- Struts configurations objects, and includings the dynamics response data from an action.

<bean:cookie --->

¿bean: header...)

<bean: page>

bean: paramter ...>

<bean! header)

< bean: 30 resource: -->

<bean: Streects --->

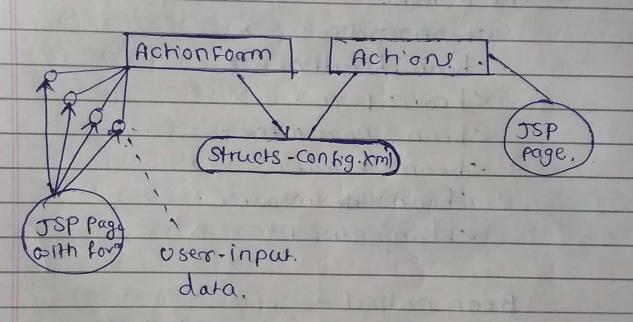
Bean output -

The < bean: message> and < bean! write>
tags from the structs frameworks will
write bean and application resources
properties into the current HttpResponse.
objects

Creating HTML forms.

- Frequently data should be gathered from a client and handled without the Capacity to gather client input, a web

would be futile. So as to get the dients data, a html shapes is utilized. Client informations can originates from a few gadgets for examples, content fields, contents boxes. Check takes care of, pop men as and radio catches. The information comparing to the



Below are the tags provided by html Sections of the structs fromworks and ashorts to descriptions of each.

(html:base) Generates < base) tags. This tags should be used inside</p>
of a < head? tags.</p>

<h+mr: button> Benerates an <input type</p>
="button"> tags.

<html: checkbox> = Generates an <input.</pre>

<h+ml: multibox> Generales an <input</p>

type ="check box">."

heckedness"

chtml: errors > Generates html to display.

any errors and may have

occursed duting invocation

of the validated method

< html: file> .

<html: form> Generated <form>

Khtrol: hidden? There are hidden element.

here which is invisible.

Generates <input type = "hiddens

The Action Form class.

-The purpose of the Action form class to certain and provides validation of the user inputatata. This class is subclass-for application specific customization.

Technology/Toot. -1) Eclipse IPE 2) Apache Tomcat 7.0 or higher

Design/Executions Steps-

1) create the directory Structure as.

19) create input as below.

3) provide the entry of controller in. (web.xml) file as given above

4) create the action class (loginAction jas)

s) map the request in Estruct. con fig. * xm1) file and define the view Components.

6) Load the jar file.

7) start server and deploy the project the or create war files paste 11. in webapps folder and run from manager-app.

-> Hence, we have success-Conclusion Fully tested the struts foromeworks and tesked theresults.