Assignment 4 &5

(JSTL,AJAX ,Struts,Web applications)

1. (a) Create an application for bank using JSTL. Customer enters his accounteid , server validate the customer and display his account balance – Welcome customer name> your account balance is <balance> If the balance is below min balance then display appropriate message and change the background color.

(b) Make an HTML page with a push button. When user clicks this button then shows him the content from a file. Update this after every 3 seconds.

1. (a) Create a custom tag which display the table of the given number (e.gnum=2 then o/p = 2,4,6,8... 20) in proper format

(b.)Make a JSP page which has background color of user’s choice , display Current time and day . Make a footer jsp page which display the visitor number and include this page on main page .

(a) Write an application for students . Store students information ( name , roll no and marks ) in a bean (atleast 5 students) then display the information on a JSP page using JSTL.

(b) Display server time and update it after every 5 seconds.

**AJAX Programs**

1. Display the use of methods provided by prototype framework.( Atleast 5 )
2. Make an HTML page with a pushbutton that invokes a alert box, which displays the

either “Good Morning” , “Good Afternoon” or “Good Evening” based on server time using Ajax-Prototype framework.

1. Update content of html p tag with the content of a file.(using XMLHttpRequest object)
2. Update content of html p tag with the content of file using Ajax.Request object.
3. Append content of a file in html div tag.
4. Show server time. (Use Ajax.PeriodicalUpdater and JSP)
5. Using scriptaculous make a program to drag an image.
6. Make an array of minimum 5 elements. Perform different array methods provided by prototype framework.
7. Make 3 buttons –Start, Click and Stop. Display a textbox named Counter. When user press Start button then only the Click button should get enabled and display number of times user press the click button. On click of stop button again disable the click button.

(Use methods provided by prototype framework)

**Struts Programs**

1. Develop an application in Struts architecture that allows to entering the account number of customer. Based on the available balance, if its below Rs. 1000/- he will be forwarded to badCust.jsp otherwise to  goodCust.jsp
2. Develop a Login application using ActionForm.
3. Create a Page to display Hello with your name using Struts
4. Develop an application in Struts architecture which simply displays whether the passed number in the parameter is a prime number or not.
5. Develop an application in Struts architecture to display Employee code, Employee Name, andEmployeeSalary using Alias Interceptor.

**Web Applications**

1 Develop the following application:

A. Design an html page that accepts the father’s name and age along with the son’s name and age. The user should be redirected to “myError.jsp” if any of the age is invalid and also if father’s age is less than son’s age.

B. If the age is valid, the user should be redirected to “Welcome.jsp”, where father’s age at the time of son’s birth is shown.

C. The valid details should be stored in the database using Statement or PreparedStatement

2. Develop the following applications:

1. Design a JSP that is called index.jsp that takes two numbers from user. If the numbers are negative, user should be given “MyError.jsp”or the user should be directed to “ShowCalc.jsp”
2. Write a jsp based custom tag to check whether given number is prime or not.
3. Write a java based custom tag to check whether given number is prime or not.

3. Develop the following application:

1. Design an MVC application where-in user enter his user-id in an html form “index.jsp”.
2. Based on user-id, the user’s data should be fetched from the database.
3. If the user-type is of “student”, he should be redirected to “subjects.jsp” and if the user-type is “faculty”, he should be redirected to “profile.jsp”.
4. Maintain a count for how many time the “index.jsp” has been accessed from the server reboot

4. Develop an application for a GuestBook as following:

1. Design an HTML page that takes user’s name, email and the comments of the user.

The page should have three buttons submit, clear form and view guestbook

1. On the click of submit the user’s details should be stored in the database and the user should be shown a page showing his entered details and a note of thanks.
2. On clicking the clear form button the data entered on the form should be cleared. And on clicking on view Guestbook page the whole guest book should be shown to the user.

5. Develop following applications:

1. Develop a page that creates a parameterized tag that prints the reverse of the string set as parameter in the format specified as a parameter within the tag. It should also display the content within the body of the tag. The tag file should be java-based.
2. Create a JSP page that should have the background as given by use. If user does not give any color, then the page should have the background color as given by user lastly.

6. Develop an application for a Inventory for Products as following:

1. Design an HTML page that takes the product details like:

Product-id

Product-name

Desctiption

Price from the user

1. On submitting the page a bean should be populated with the given values for Product in a servlet
2. The bean created then should be inserted in the database.
3. On the same page, all the available products in the database should be shown to the user.

7. Develop an application for a Job Portal as following:

1. Design an HTML form that takes the input as user-id from the user.
2. Based on the id, fetch the data from the database. Check his type and accordingly populate the bean of Recruiter or Seeker.
3. If the user is Recruiter, he should be given a page that displays all the available job seeker data from the database
4. If the user is Seeker, he should be given a page that displays all the available jobs that are posted by all the recruiters.

8. Develop an application as following:

1. Design an HTML form that takes the input as user-id from the user.
2. Based on the id, fetch the data from the database. Check his type and accordingly populate the bean of MCAStudent or MBAStudent.
3. If the user is an MCAStudent, he should be given a page that displays the subject names for MCA and if the user is an MBAStudent, the subject should be shown

accordingly from the database.

(NOTE: Assume suitable database and insert few records)

Extra Programs

1. Develop the following application for Courier Management:
   1. Design HTML page to get the information of the parcel, like the courier-id, sender,receiver, source address, destination address, date of courier, weight of the parcel, status(pending/dispatched/delivered).
   2. Insert the data of parcel entered by the user into the database through a bean.
   3. Give the functionality such that user can search the status of the parcel, given the courier-id.
2. Develop a following application for city portal:
   1. Design an HTML that accepts the city name, places to visit within that city (comma separated), total population of the city and the total area.
   2. Populate a bean with the value entered by the user and insert it into the database.
   3. List all the cities along with the places to visit.
3. Develop a following application for a Transport System:
   1. Design a page that takes input as the vehicle details like the registration number of vehicle, the type of vehicle(heavy duty/light duty), the owner of the vehicle etc
   2. Populate the bean from the information given. Insert the data in the database.
   3. Give the functionality to search a particular vehicle based on the registration number.
4. Develop the following application for maintaining the inventory of medicine.
   1. Design an HTML page to ask user enter details related to medicine such as Name 25 of medicine, Manufacturer, Mfg. Date, Expiry Date, Unit price when user clicks on submit button store these details into database.

[Create suitable table structure]

* 1. Provide facility to user to list medicine based on manufacturer.
  2. Allow the user to search medicine based on the name

1. Develop following applications:
   1. Create a JSP page "subject.jsp" that brings the complete list of subjects from "FirstYear.html", "SecondYear.html" and "ThirdYear.html" using include.

B. Create an application that

* Defines a class Name that consists of firstname and lastname.
* Define another Bean to store the details about a Person, with a member as an object of Name.
* Design an HTML page that takes the details of a Person and populate a bean in servlet
* Forward the request to “show.jsp” that will show the properties of the bean using JSTL

1. Develop an application for currency conversion as following:
   1. Design an HTML page that takes the name of currency, country of the currency and rate with respect the Rupee.
   2. On submitting the page a bean should be populated with the given values for Currency within a servlet
   3. The bean created then should be inserted in the database.
   4. On the same page, all the available currencies in the database should be shown to the user.
2. Develop an MVC application for a House on rent:
   1. Design an HTML form to take input as the house type(flat/sharable flat.), total are of the house, locality of the house, rent to be paid per month.
   2. Populate bean based on this values. Add a record in static database.

NOTE: You make entry into the database like any Collection.

* 1. User should be able to search based on locality and rent to pay.

1. Develop an application as following:
   1. Make a “color Preference” form that collects the user’s preferred background and foreground colors. Send the data to a JSP page that displays some message using those colors. (Make use of JSTL)

This JSP page should have a default value for any form value that the user fails to pass.

* 1. Encrypt the text that you want to send on the client side. The server side decrypts it after receiving. Append server time after each word in the sentence. Decrypt it and send it back to the client.
  2. Maintain the count of how many times the above page has been accessed since the.server reboot.