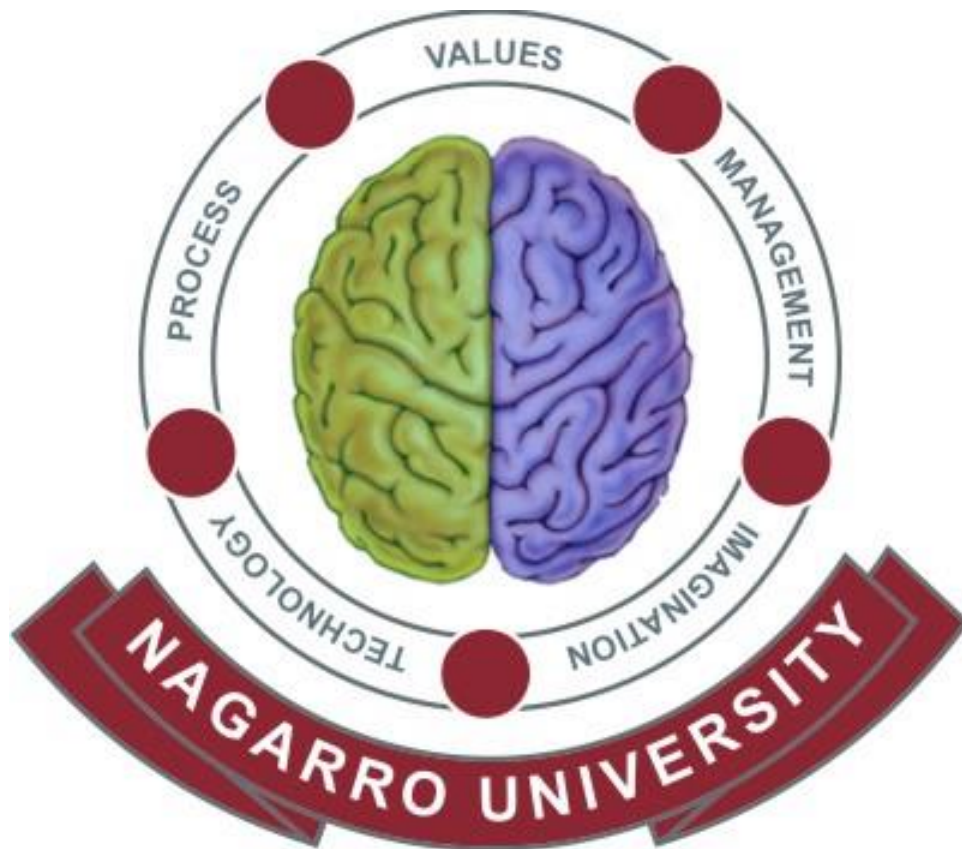


Nagarro University

Struts2 Assignments



Aim

The aim of this assignment is to provide developers with an opportunity to apply learning gained from course on "Struts2". While implementing this assignment, the developers are expected to adhere to code conventions and best practices as taught in this course.

Your task is to write small web application for HR Manager of a company where HR Manager can login to application and manage employees.

Assignment

You need to write a web application using struts2 with following functionality:

1. HR Manager Login/Logout
2. Employee listing.
3. Upload employee details from a CSV file.
4. Download employee details to a CSV file.
5. Edit an employee details

1. UI Screens:

- a. HR Manager Login.

The image shows a UI mockup for the HR Manager Login screen. It features a header area with the text "Header goes here" in blue. Below the header is a login form titled "Login" in blue. The form contains two input fields: "User Id:" and "Password:". Both fields have a green callout box pointing to them with the text "Min 5 and Max 50 Characters". Below the password field is a "Login" button. At the bottom of the screen is a footer area with the text "Footer goes here" in blue.

b. List employee details

Header goes here

Welcome user ! 

Logout

Replace the "user" with logged in user name

Employee Listings

Upload Employee DetailsDownload Employee Details


Employee Code	Employee Name	Location	Email	Date Of Birth	Action
500	Rajesh Kumar	Gurgaon	rajesh.k@company.com	12 August 1982	Edit
501	Satish Kumar	Sec 34, GGN	abc@xyz.com	24 January 1980	Edit

Click here to edit a record

Footer goes here

c. Edit Details

Header goes here

Welcome user ! 

Replace the "user" with logged in user name

Edit Employee Details

Employee Code: 500 Non blank, Max 100 Characters

Employee Name: Rajesh Kumar Max 500 Characters

Location: Gugaon Email Validation, Max 100 Characters

Email: rajesh.k@company.com

Date of Birth: 12/08/1982 DD/MM/YYYY

Save Cancel

Footer goes here

d. Upload employee details from a CSV file.

Header goes here

Welcome user ! 

Replace the "user" with logged in user name

File Upload

C:/files/backup/nagarro-employee-details.csv Browser

Upload Click here upload csv file

Cancel Click here to go back to Employee listing

It should browse only CSV files

Footer goes here

- e. Download all employee details to a CSV file.

This should open "File Download" similar to below.

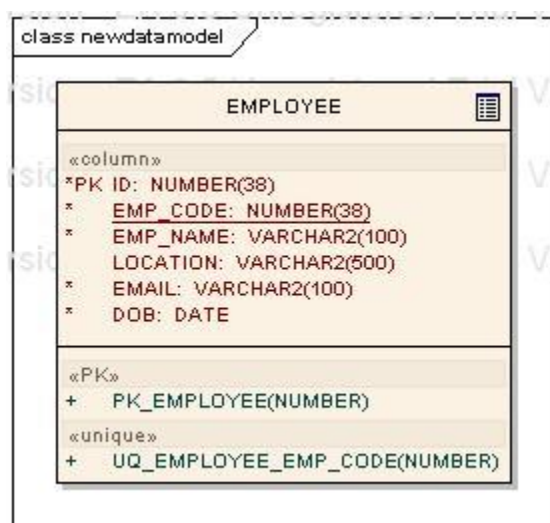


- f. Logout

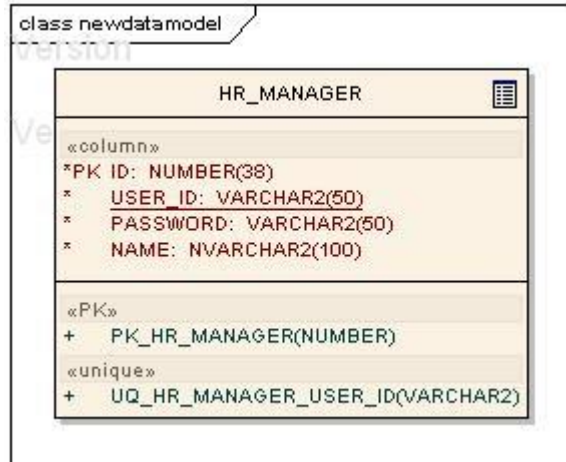
Clicking on logout should perform logout and redirect to login page.

2. Data:

- a. Employee Schema:



b. HR Manager Schema:



For simplicity this table may contain following data

ID	USER_ID	PASSWORD	NAME
1	Hrmanager1	Hrmanager1	HR Manager1
2	Hrmanager2	Hrmanager2	HR Manager2
3	Hrmanager3	Hrmanager3	HR Manager3
4	Hrmanager4	Hrmanager4	HR Manager4
5	Hrmanager5	Hrmanager5	HR Manager5

c. Sample CSV file:

Content of CSV file should be similar to following:

Employee Code,Employee Name,Location,Email,Date of Birth
500,Rajesh Kumar, "Gurgaon",rajesh.k@company.com,24/08/1982
501,Satish Kumar,"Sec 23, GGN",abc@xyz.com,24/01/1980
503,Nitin Mahan, "Sec 17, GGN",noni@noni.com,24/03/1978

Note :- First row should always be column headers.

3. Instructions

1. You must follow all code conventions and best practices.
2. Use custom Interceptor for Authentication, i.e. if a user tries to copy any valid URL of the application and tries to open the same in a new browser, (s)he should be redirected to login page.

3. Whenever a form is POSTed to the application, the web controller must redirect the user to the next page, rather than simply rendering it. This is to prevent warnings about POSTed content whenever the user uses the browser button (back/forward/refresh).
4. The complete assignment should be done using Core Java, code JSP ,Struts 2 and JDBC only.
5. Use struts 2 tags as much as possible.
6. Do not use scriplet to write a logic in JSP, instead use struts2 tags (s:if, s:else, s:iterator, etc ...)
7. The code should be properly documented wherever required.

[End]