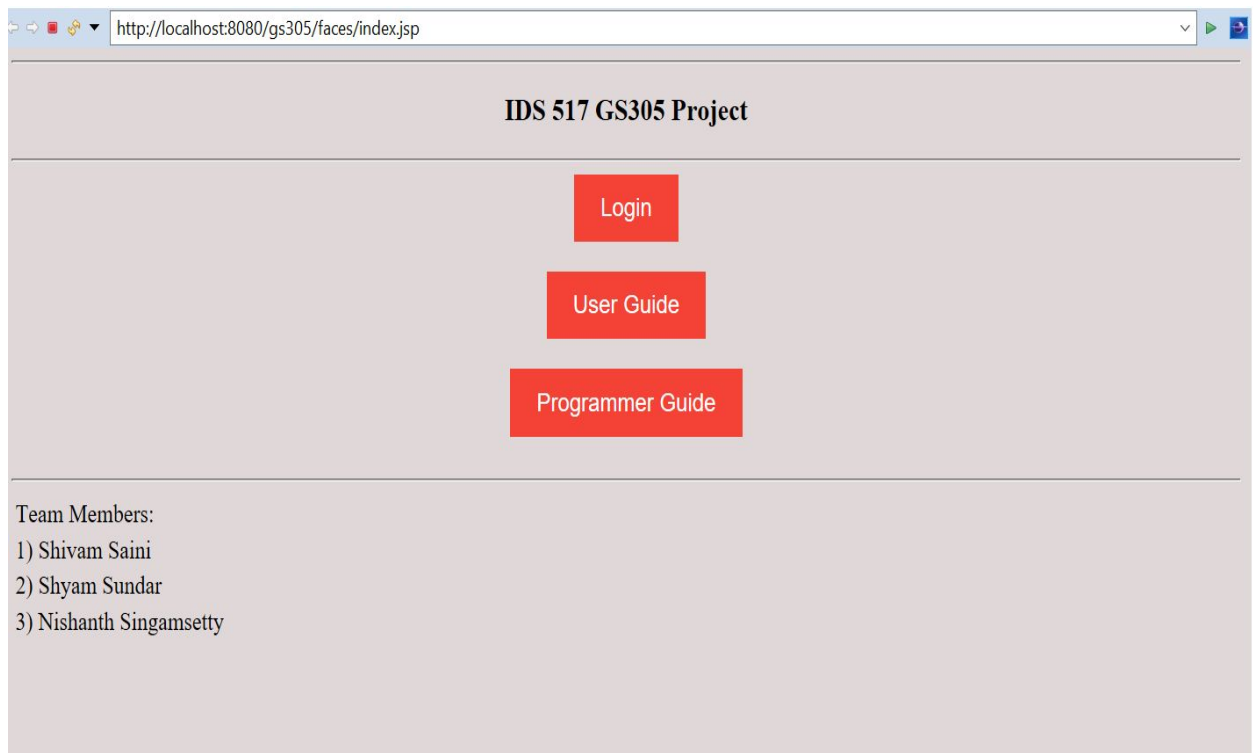
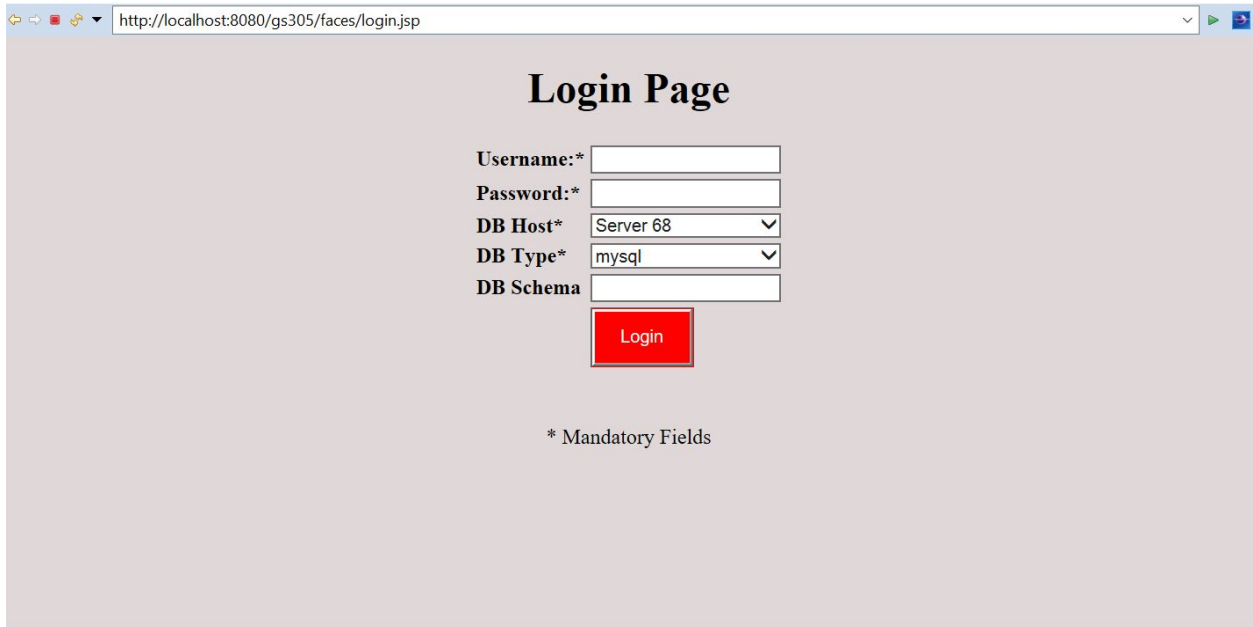


User Guide

Starting the application on the server, the user enters onto the index.jsp page which looks like:

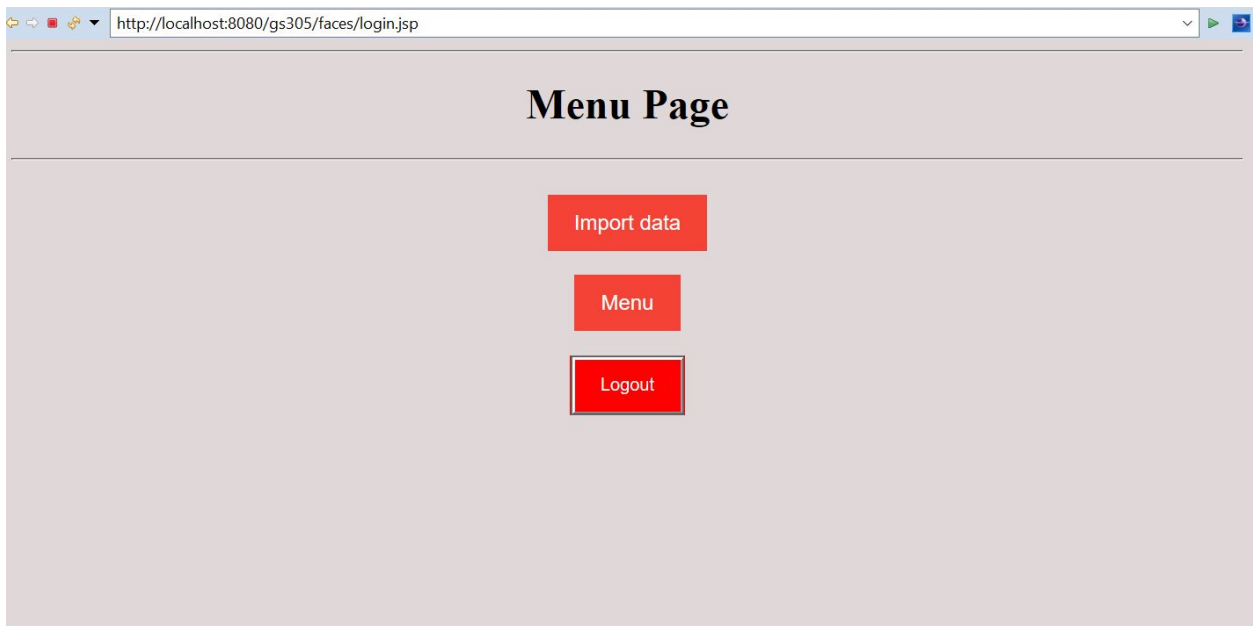


After clicking on the Login button, the user is sent to the login.jsp page where the user credentials were asked and the page is looks like:



The screenshot shows a web browser window with the address bar displaying `http://localhost:8080/gs305/faces/login.jsp`. The page has a light beige background and is titled "Login Page" in a bold, black, serif font. Below the title, there are five form fields arranged vertically, each with a label and an asterisk indicating it is mandatory: "Username:*" (text input), "Password:*" (text input), "DB Host*" (dropdown menu showing "Server 68"), "DB Type*" (dropdown menu showing "mysql"), and "DB Schema" (text input). A red "Login" button is positioned below these fields. At the bottom of the page, there is a note: "* Mandatory Fields".

After entering all the correct credentials and required fields the user clicks login and enters onto the menu page which looks like:

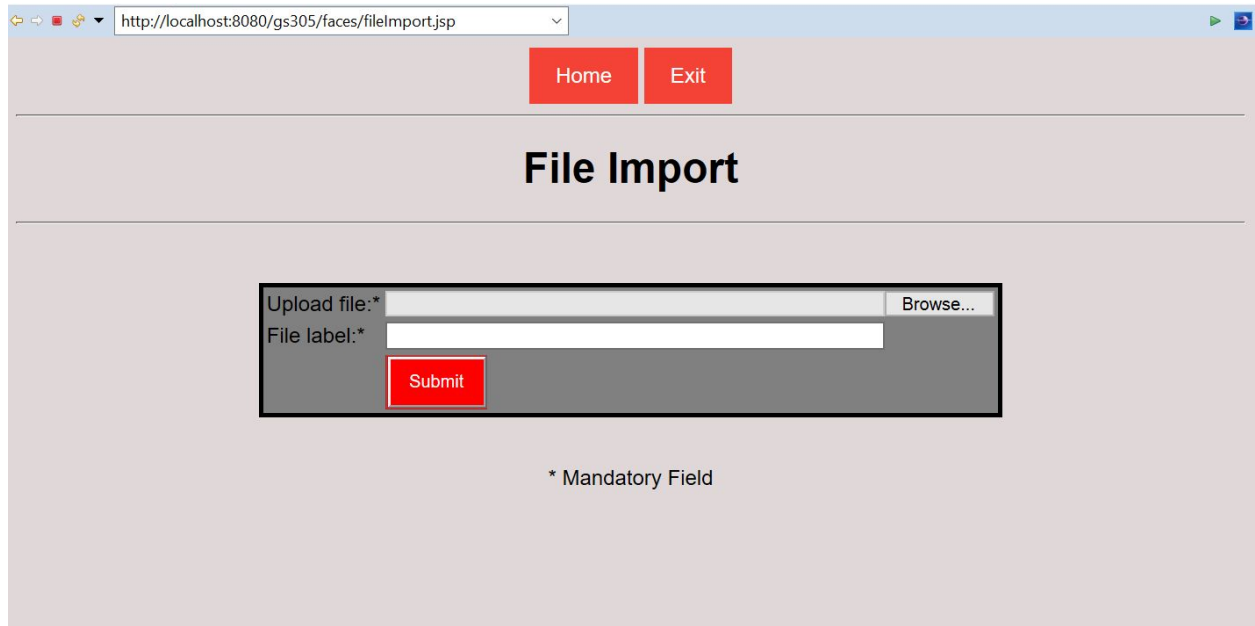


The screenshot shows the same web browser window, but the page content has changed. The address bar still shows `http://localhost:8080/gs305/faces/login.jsp`. The page is titled "Menu Page" in a bold, black, serif font. Below the title, there are three red buttons arranged vertically: "Import data", "Menu", and "Logout".

Menu page displays different options which the user can access as per requirement.

After clicking on the Import data button the user lands on the File Import page. From file import page the user can enter a file into the database which would be used for further statistical analysis.

File import page looks like:



The screenshot shows a web browser window with the address bar displaying `http://localhost:8080/gs305/faces/fileImport.jsp`. The page has a light gray background. At the top, there are two red buttons labeled "Home" and "Exit". Below these, the title "File Import" is centered in a large, bold, black font. A horizontal line separates the title from the form area. The form is a dark gray rectangle containing two input fields: "Upload file:*" and "File label:*". The "Upload file:*" field has a "Browse..." button to its right. Below the "File label:*" field is a red "Submit" button. At the bottom of the form area, there is a small text label: "* Mandatory Field".

User can browse the file from his/her system and enter the file label as per the requirements and click submit.

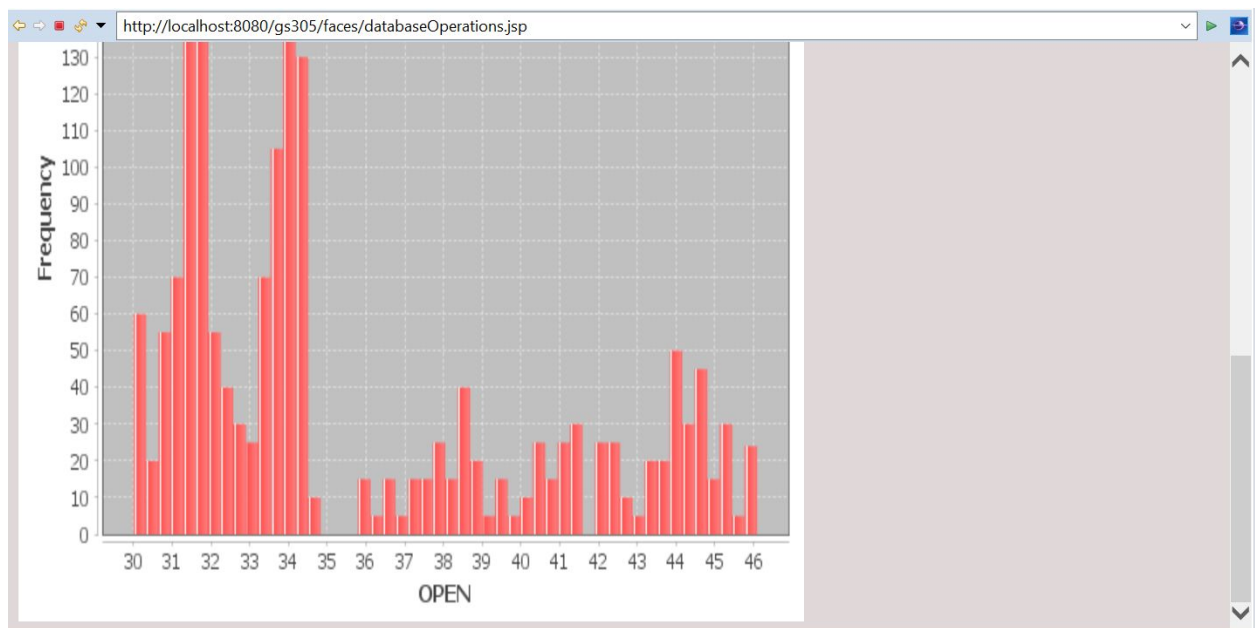
As the file is submit, a short description(file size, number of rows, temporary file path) of the file is displayed.

After uploading the file, user clicks home button to land on the menu page from where he/she can start statistical analysis on the file uploaded.

Furthermore, the user clicks on the menu button present on the menu page to explore different options available in order to the statistical analysis.

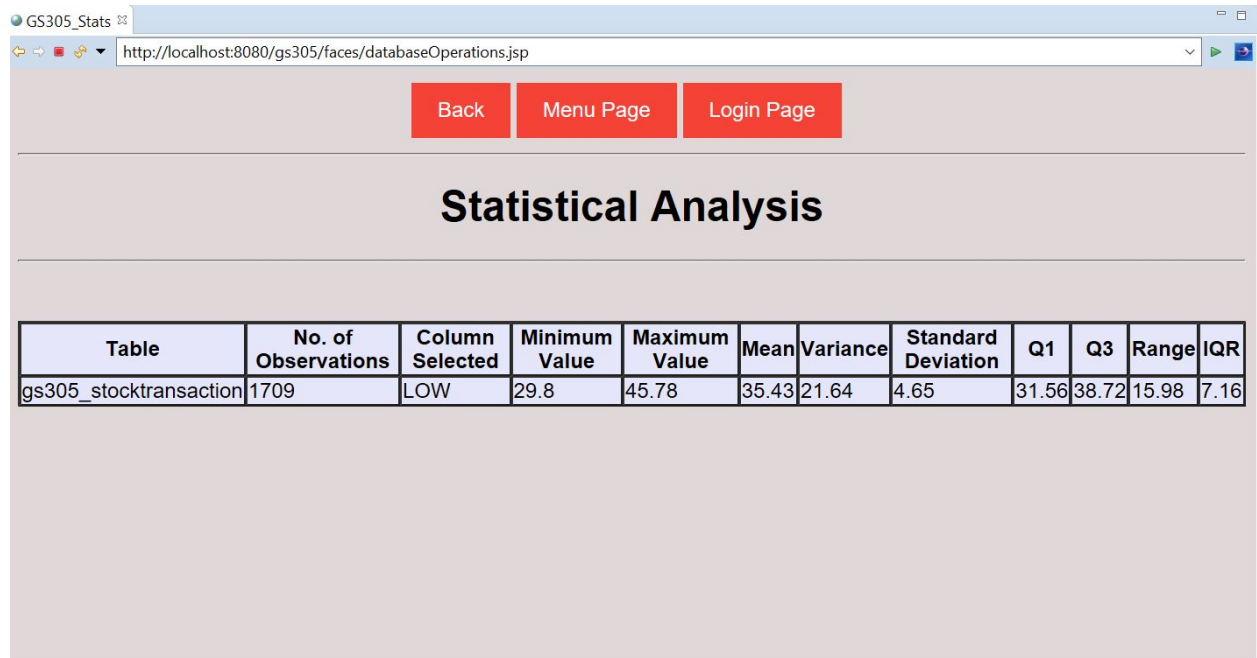
The user can click on table list button to get the tables present in the database and then plan on which table to work on. Clicking column list will give the columns for the selected table. Clicking the display table button the user can see the table. Clicking the create table button, the user can create a table. Compute return will compute the return for the specified ticker present in the database. Drop table button will drop the table from the database. For doing statistical analysis, the histogram button will show the histogram for a specific numeric column.

Histogram looks like:



Descriptive stats will give different statistical measurement for the selected ticker. Load variables will display the variables in to dependent and independent variable form. Create scatter plot will display the scatter plot.

Descriptive stats looks like:



The screenshot shows a web browser window with the address bar displaying 'http://localhost:8080/gs305/faces/databaseOperations.jsp'. The page has a header with three red buttons: 'Back', 'Menu Page', and 'Login Page'. Below the header, the title 'Statistical Analysis' is centered. A table displays the statistical analysis results for the 'gs305_stocktransaction' table.

Table	No. of Observations	Column Selected	Minimum Value	Maximum Value	Mean	Variance	Standard Deviation	Q1	Q3	Range	IQR
gs305_stocktransaction	1709	LOW	29.8	45.78	35.43	21.64	4.65	31.56	38.72	15.98	7.16