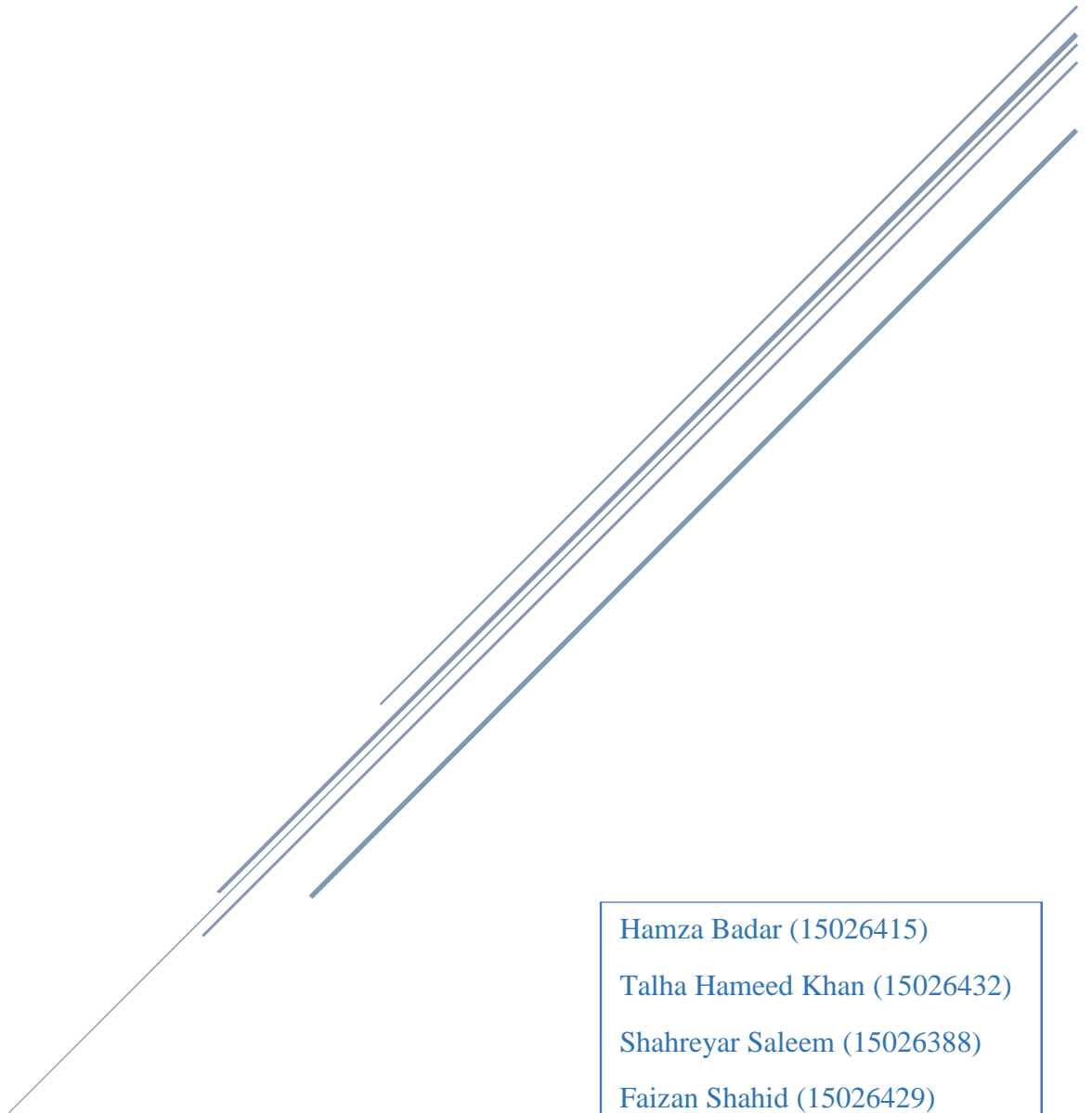


TESTING REPORT

SOFTWARE ENGINEERING AND GROUP PROJECT



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INTRODUCTION:

Web testing is a term that is used to check your web application for potential or possible bugs. Testing plays a major role in every system before making it go live. In this report we have checked our system according to many ways i.e. Functional Requirements, performances, Security issues and Compatibility.

SITUATION:

We need to create a web based or stand-alone Personal Academic Tutor (PAT) application for the School of Electrical Engineering and Computer Science, at the University of Bradford, so that they can manage the whole tutoring system using a software which by time now they are doing in a spreadsheet. It also has the following features along with it:

- The system will only be operated by the School Secretary.
- The system should contain function for adding and removing students and staff's members.
- It also need to assign tutor to each and every student and each tutor can have 4 to 8 students in his/her group.
- All students and staffs should be displayed in the list and the list can be sorted in the ascending order.
- Each group has its name.

This system needs to work according to the given instruction the choice of implementation technology is your own decision.

TYPES OF TESTINGS:

We used the following types of testing to test our web application:

FUNCTIONAL TESTING:

Functional testing is used to check whether the functions in the application are working properly just as the requirement of client or not. It is checked by many tools, we used QTP Testing.

QUICK TEST PROFESSIONAL (QTP):

Quick Test Professional (QTP) is the functional testing tools that check your web application and gives you error or bugs. The following are the results that we got after testing through this:

i. OUTGOING LINKS:

All the outgoing link of our web application are working properly without giving any error.

ii. INTERNAL LINKS:

All the internal links of our web application i.e. HTML, JavaScript, Bootstrap, CSS, JQUERY are working properly without giving any error.

USABILITY TESTING:

Usability Testing is used by the testers or the users for which the application is made. For this testing we used Chalk Mark tool.

CHALK MARK:

This tool is used for Usability Testing that whether the application is easily useable to every one or not and after this it becomes the part of testing document. There is not grammatical or syntax error in the application and all things are working fine.

INTERFACE TESTING

Interface Testing is used to check whether the interface is working properly or not i.e. Buttons and their linking to respective pages, database and its connectivity.

For this purpose, we used **AlertFox** testing tool to check our application's interface.

ALERTFOX

We used Alert Fox tool to check out interface and got the result that all the buttons are working properly and linked properly to respective pages without giving any error or "Page Not Found" error and the database is also running fine.

DATABASE TESTING

We checked it with the help of QTP tool .This is the main part of the testing as the whole application runs on it and Database serves as the backbone of the whole application. .

QUICK TEST PROFESSIONAL (QTP)

We used QTP to check the database connectivity and working whether it is working and connecting with the application correctly or not. We used it while testing the updating, deleting and uploading of the students and staff in the table and all worked fine without giving any error.

SECURITY TESTING

Security plays an important role in any software and application as no one wants that the data to be leaked to some third party. For this we used Brute Force Binary Tester (BFB) Tool.

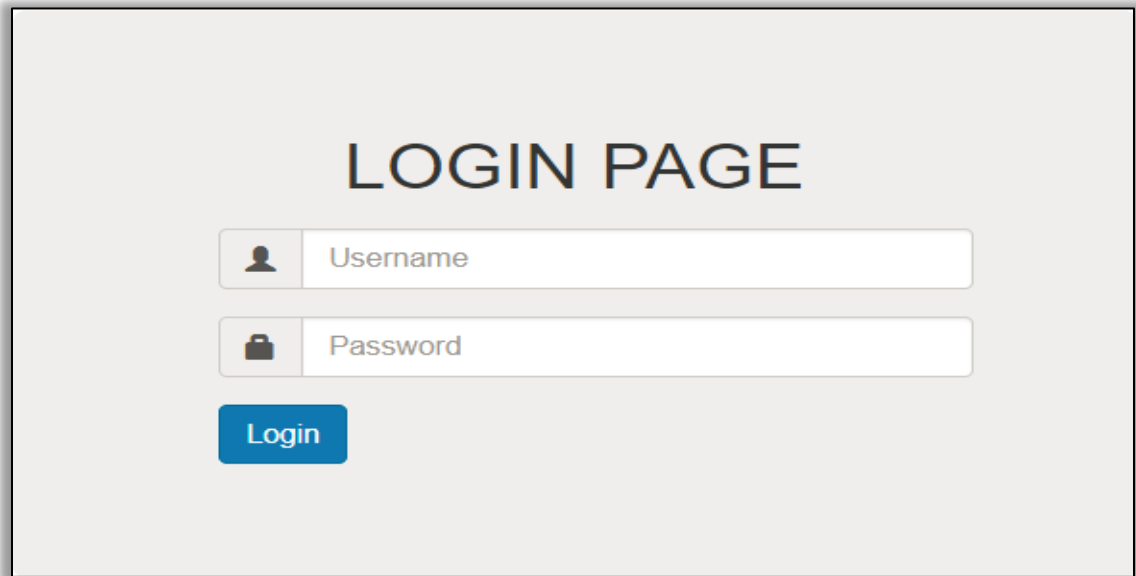
BRUTE FORCE BINARY TESTER (BFB) TOOL

BFB is the security checking software that checks the security of an application we used it on our login page from where the School Secretary logs in to the application and it worked completely fine as only the assigned password to the Secretary works and not any other works.

PRACTICAL TESTING

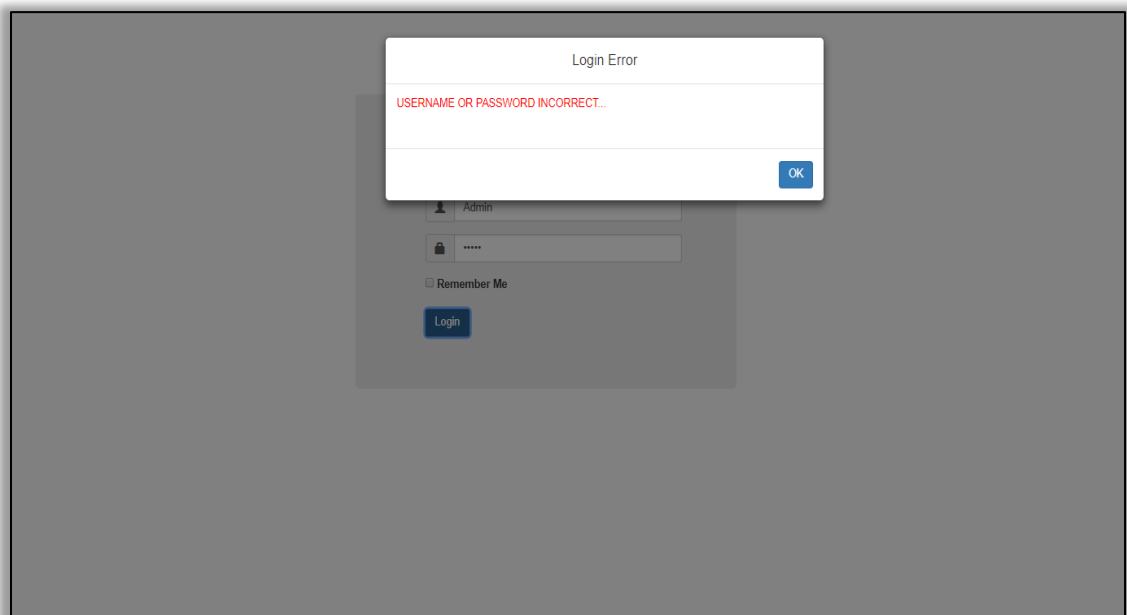
LOGIN PAGE

- The following is the login page for our web application tutoring app. By giving correct username and password i.e. (.....) the School Secretary logs to the student's page.



A screenshot of a web application's login page. The page has a light gray background. At the top center, the text "LOGIN PAGE" is displayed in a large, bold, dark blue font. Below this, there are two input fields. The first field is labeled "Username" and has a user icon on the left. The second field is labeled "Password" and has a lock icon on the left. Below these fields is a blue button with the text "Login" in white.

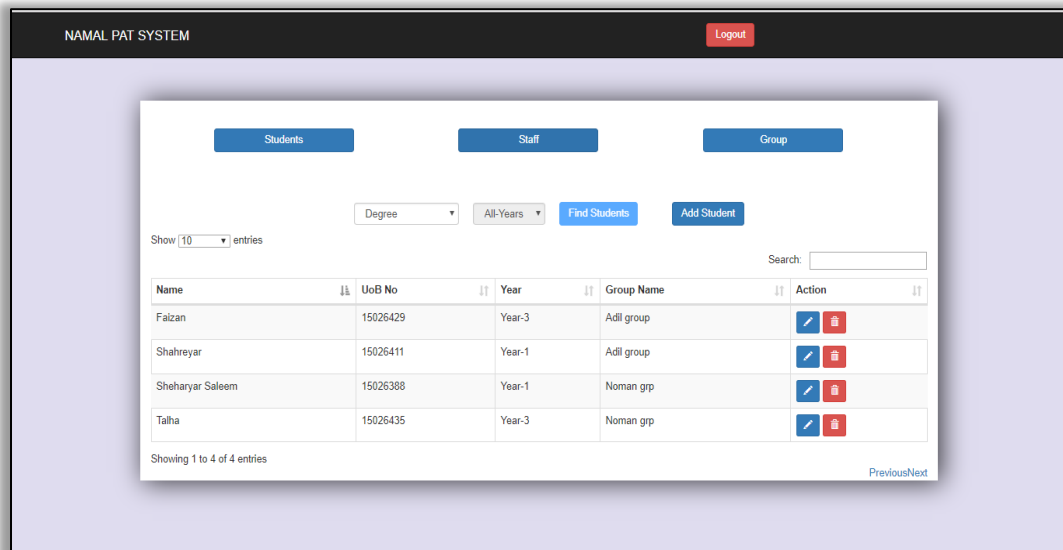
- Login page displays an error is the given username and password is incorrect.



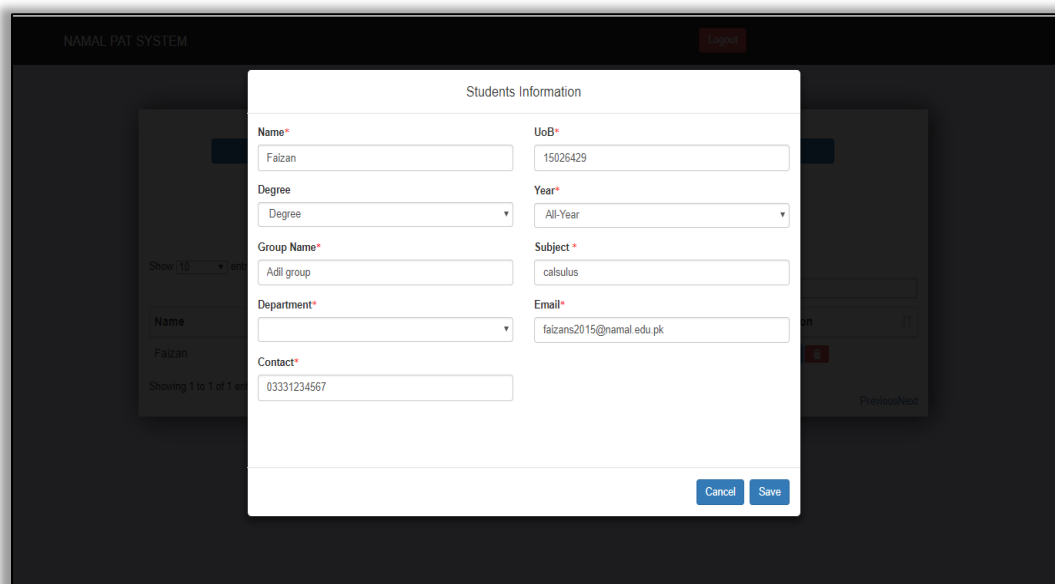
A screenshot of the same login page as above, but with an error message displayed. The error message is in a white box with a blue border, titled "Login Error". The text inside the box reads "USERNAME OR PASSWORD INCORRECT..." in red. There is a blue "OK" button in the bottom right corner of the error box. The login form is visible in the background, showing the "Username" field with "Admin" entered, the "Password" field with "*****" entered, a "Remember Me" checkbox, and a "Login" button.

STUDENTS PAGE:

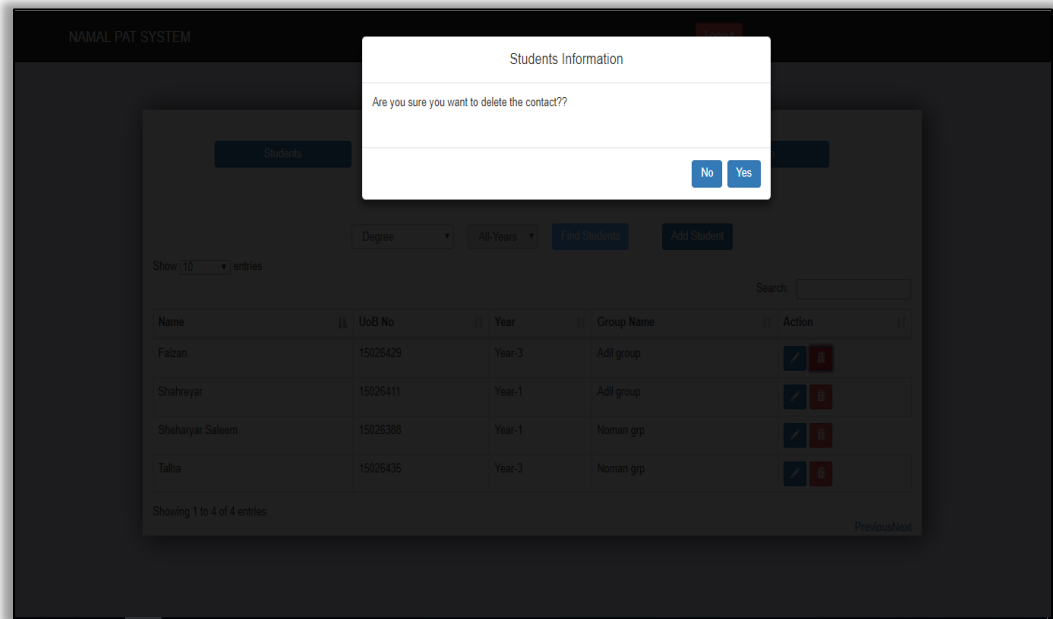
- In student's page there's a Search box that is used for searching in the table. Along with the Degree dropdown which shows whether its Under-Graduate or Post-Graduate. Next to it is the year dropdown which can be used to show specific year students. While Find Student Button is next to them which only works when Degree is selected otherwise its blocked.



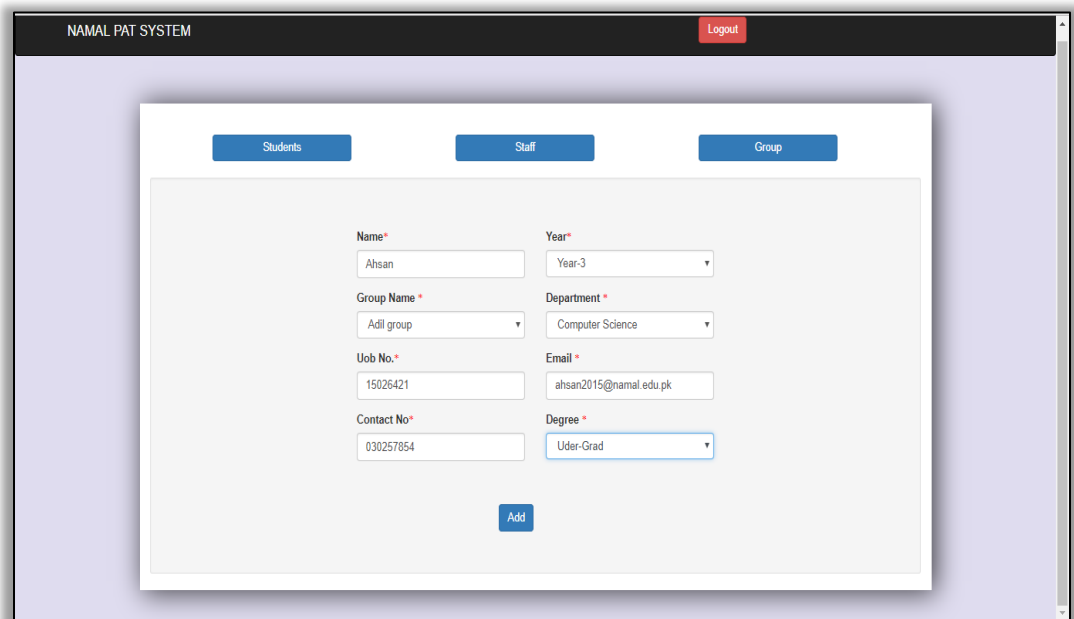
- When Edit option is clicked next to every student name a dialogue modal opens which contains all the current information of the specific student if you want to change that change it and click “Save” or click “Cancel”.



- When the Delete button is clicked that is next to the Edit button a new dialogue modal opens that asks “Are you sure you want to delete this contact” and if clicked “No” it returns back and if clicked “yes” the name is removed from the table as shown in the pictures below.

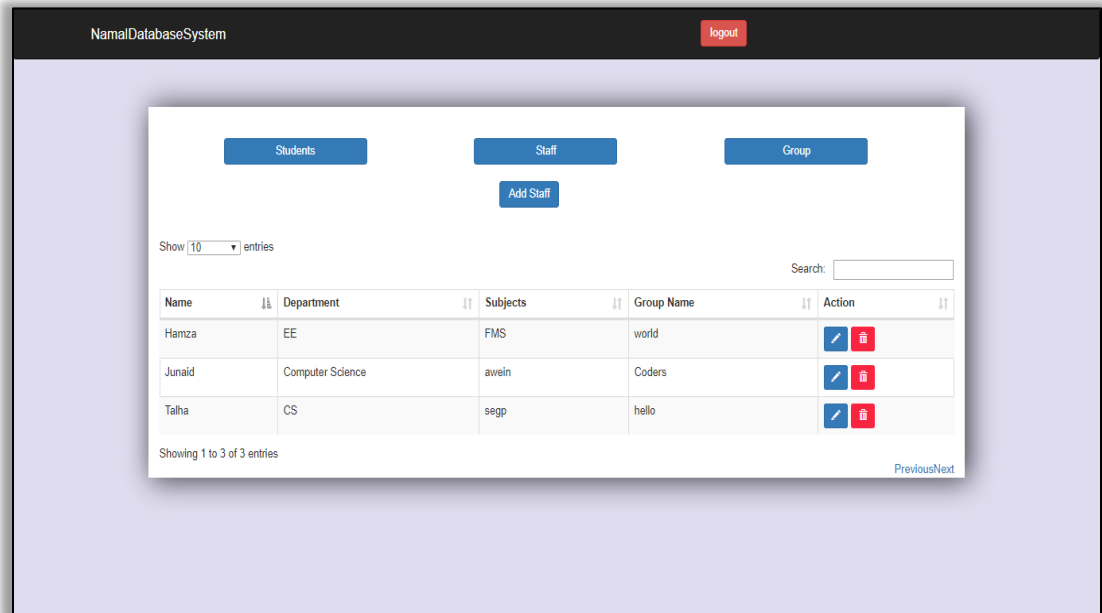


- When “Add Student” button is clicked a new page opens which asks for the info of the student and along with the group name that in which group he needs to be put. After clicking add student is added in the students table.

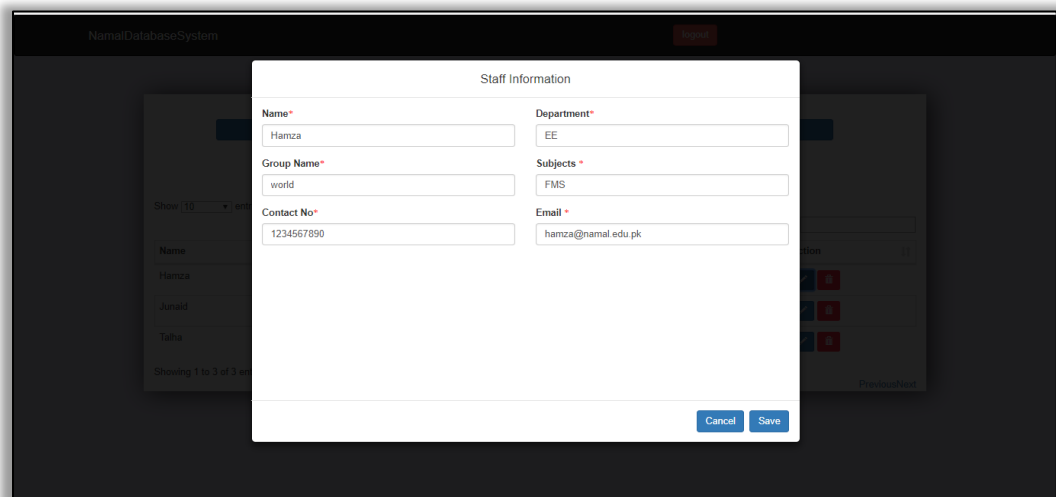


STAFF'S PAGE

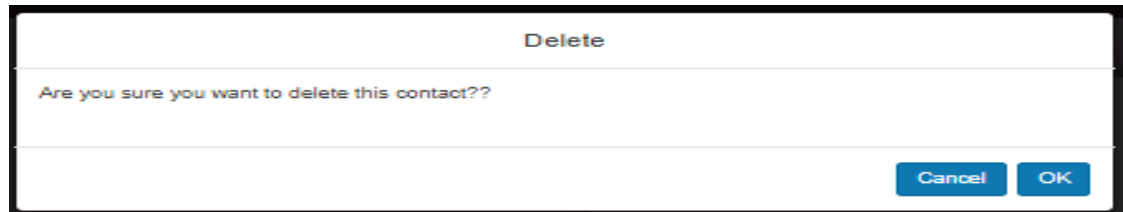
- In staff's page there's a Search box that is used for searching in the table.



- When Edit option is clicked next to every staff member name a dialogue modal opens which contains all the current information of the specific staff if you want to change that change it and click “Save” or click “Cancel”.

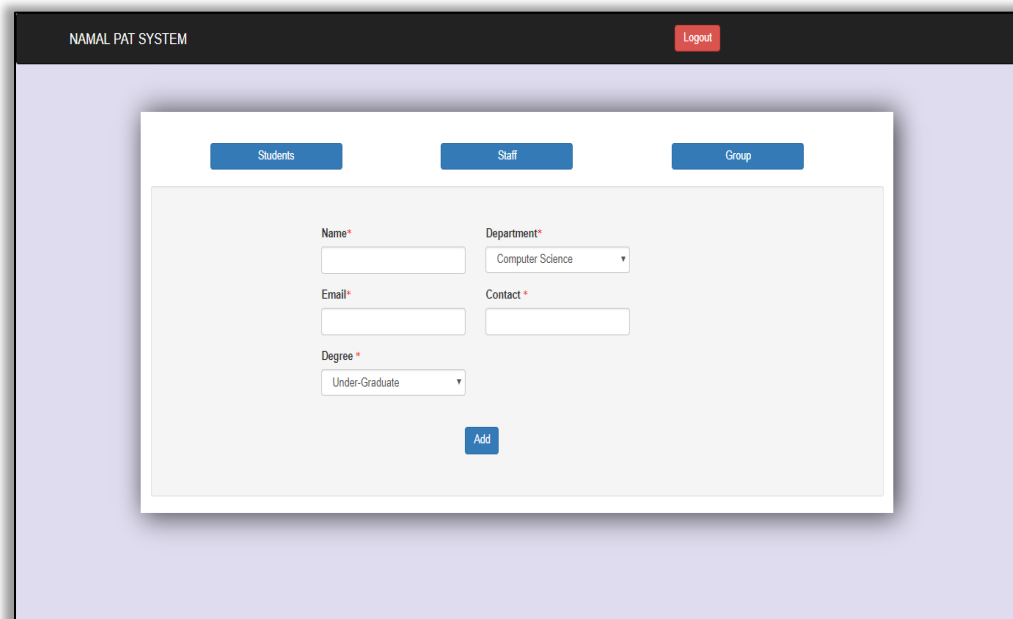


- When the Delete button is clicked that is next to the Edit button a new dialogue modal opens that asks “Are you sure you want to delete this contact?” and if clicked “No” it returns back and if clicked “yes” the name is removed from the table as shown in the pictures below.



A screenshot of a 'Delete' dialog box. The title bar says 'Delete'. The main text asks 'Are you sure you want to delete this contact?'. At the bottom right, there are two buttons: 'Cancel' and 'OK'.

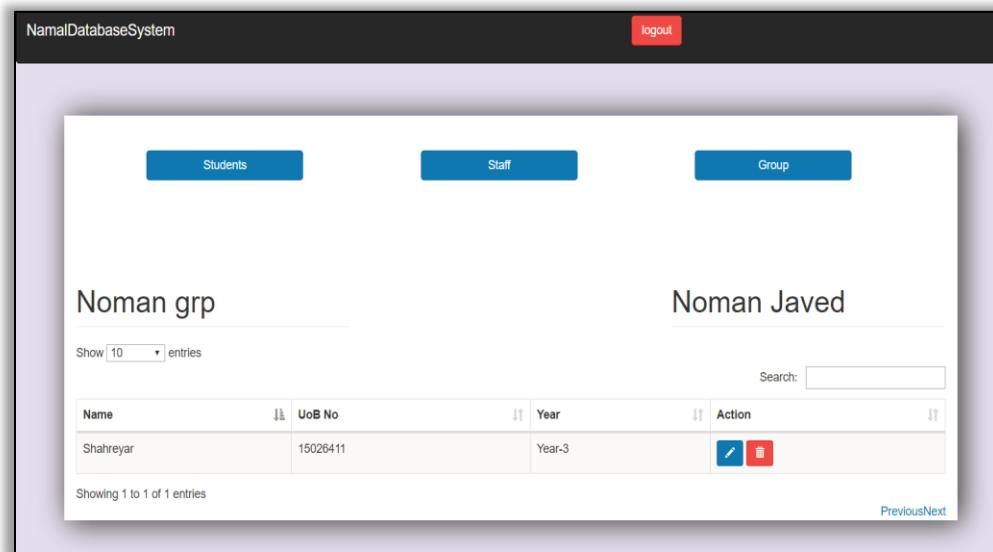
- When “Add Staff” button is clicked a new page opens which asks for the info of the staff. After clicking add staff it is added in the staff’s table.



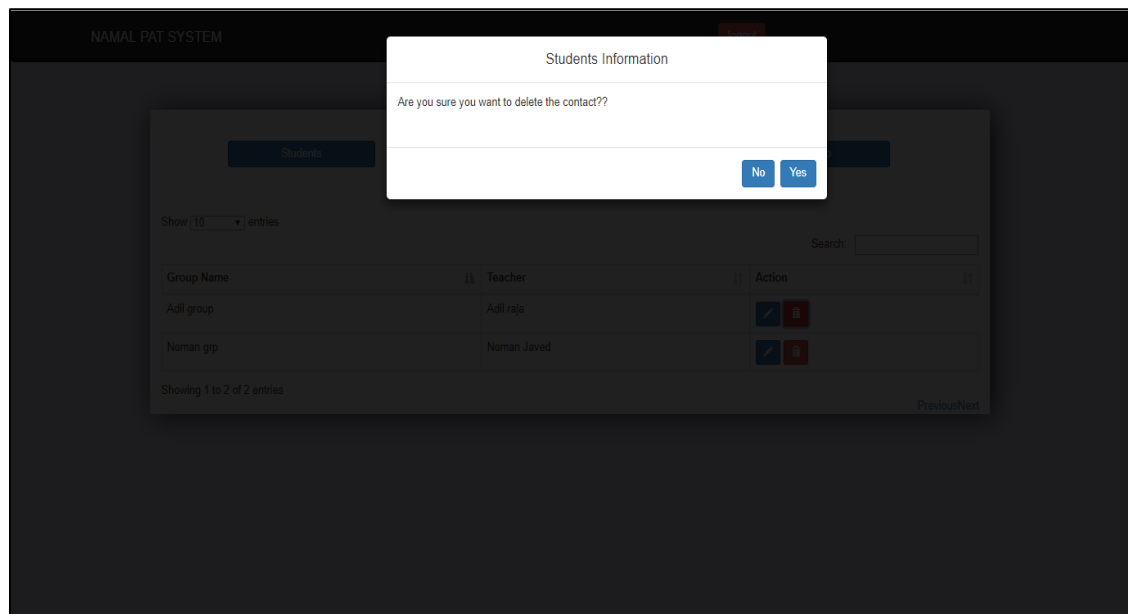
A screenshot of the 'Add Staff' form within the 'NAMAL PAT SYSTEM'. The system has a 'Logout' button in the top right. The form has three tabs: 'Students', 'Staff', and 'Group'. The 'Staff' tab is selected. The form fields are: 'Name*' (text input), 'Department*' (dropdown menu with 'Computer Science' selected), 'Email*' (text input), 'Contact*' (text input), and 'Degree*' (dropdown menu with 'Under-Graduate' selected). An 'Add' button is at the bottom center.

GROUPS PAGE:

- In group's page there's a table containing Group Name and Teachers Name whose group it is. By clicking on the edit it takes you to another page where the group is present of that specific teacher with student's name.



- When the Delete button is clicked that is next to the Edit button a new dialogue modal opens that asks “Are you sure you want to delete this contact?” and if clicked “No” it returns back and if clicked “yes” the name is removed from the table as shown in the pictures below.



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- *Software Testing Article - WEB APPLICATION TESTING TECHNIQUES* (no date). Available at: <https://www.utest.com/articles/web-application-testing-techniques> (Accessed: 1 November 2017).
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