GROUP PROJECT TEAM MANAGER APPLICATION REPORT

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INTRANET SYSTEMS DEVELOPMENT (CMM007)

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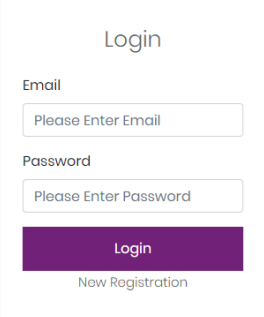
APPLICATION DESCRIPTION

The web application is a group project team manager application. It is designed to help to help university staffs involved in lecturing and practical to help manage creating and assigning students to groups for the purposes of the course. The application allows both staffs (Admins) and students to perform operations like registering and logging as an admin or student, creation of groups by the admin, displaying of students registered, displaying of student groups and their members. The application has two roles: the administrator (staff) and the user (students).

APPLICATION DESIGN

The application has a front end with a nice user interface to navigate the web application and its pages. The website also includes a backend to process user input from the web application and to store some input in the database. The front end is implemented using HTML, CSS, JavaScript and some other frameworks and libraries. The backend makes use of the PHP programming language and MySQL as the database.

SIGN IN PAGE

This is the login page for users of the system, and it is the first page that appears for the user so unauthorized users cannot look up any information without providing their credentials. It is a simple form that requests for the users email and password.
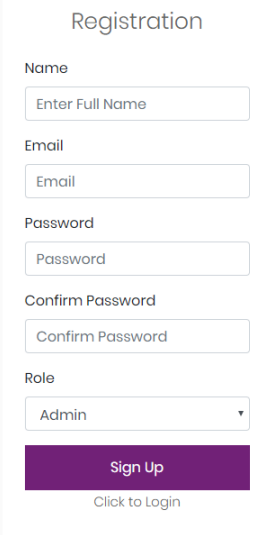
Figure 1: Sign In Page

REGISTRATION PAGE

This is the registration page for new users to provide their information and it can be accessed from the login page. It is a simple form requesting for the user's name, email, password and a dropdown to select admin or student.

Figure 2: Registration Page

HOMEPAGE

This is the page that the user is taken to after the login has been successful. This page provides navigation to the rest of the web application.

Figure 3: Homepage

APPLICATION ARCHITECTURE

DATABASE DESIGN

The database is named "peergroup" and it contains 8 tables: GROUPA to GROUPF, REQUESTS, USERS and STUDENTS. The USERS table contains the registration and login credentials for both the admin and the student as well as the profile picture associated with the users. The STUDENTS table contains the list of students that have been added by the admin and it is also used to generate the list of student groups. The REQUESTS table contains the students request submitted to be sent to the administrator. The GROUPA to GROUPF tables contain the list of students in each group.
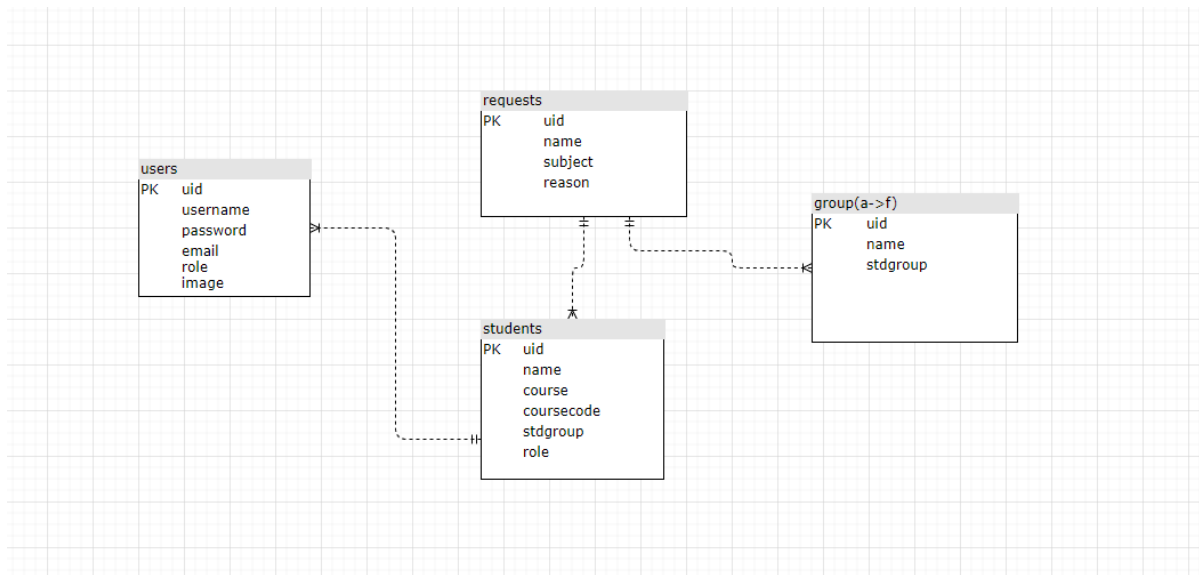
Figure 4: Database diagram

Figure 5: Database Implementation

EXISTING CODE LIBRARIES USED

Bootstrap framework was used to add styling to the webpages. jQuery was also included because of the bootstrap framework. Popper JS library was also used to add styling to the page which gave the sidebar navigation its popping on and off the screen when the toggle is clicked.

STATEMENT OF COMPLIANCE

REQUIREMENTS IMPLEMENTED

The application strives to meet requirement constraints laid out by coursework overview which are a login system, more than on user role, some type of file upload system, a system for users to input data that is stored and then recalled from a database and all the code uploaded to GitHub. The following are features implemented to meet these requirements:

- A login page that collects user input and sends to a database to compare with credentials available there. If not available, a link to the registration page is included on the page.
- A registration page for new users to input their credentials which is sent to the database and stored in the users table.
- Two types of users exist on the system, "Admin" and "Student".
- Admin permissions
  - View student list.
  - Add new students.
  - Create new groups that are randomly generated.
  - View list of groups.
  - Change profile picture.
  - View requests by students.
- Student permissions:
  - View student list.
  - View list of groups.
  - Change profile picture.
  - Submit requests to the admin.
- Database named "peergroup" implemented using MySQL and administrated using phpMyAdmin.
- Client-side code developed with HTML, CSS, JavaScript, Bootstrap, jQuery.
- Backend code developed using PHP programming language and SQL to query the database.

- File upload implemented in the form of changing profile picture done by uploading and selecting an image which replaces the users profile picture.

TESTING PLAN

USER REGISTRATION

TEST	DATA PROVIDED	EXPECTED OUTPUT	ACTUAL OUTPUT
Enter application URL in the browser.	URL	The application login page.	The application login page.
Click on New Registration to navigate to registration page.		Registration page.	Registration page.
Input details on the registration form and select Admin or Student.	User Details	Allows user to type in details.	Allows user to type in details.
Click on the register button.		Shows message showing user has been registered successfully.	Shows message showing user has been registered successfully.

USER LOGIN

TEST	DATA PROVIDED	EXPECTED OUTPUT	ACTUAL OUTPUT
Click on link provided by notification message after successful registration or navigate to the application URL.	URL or Registration link	Shows the Login form.	Shows the Login form.
Input details provided during registration.	Email and password	Allows typing of email and password.	Allows typing of email and password.
Click on submit button.		Displays home page if successful and	Displays home page if successful and

		displays incorrect message if unsuccessful.	displays incorrect message if unsuccessful.

CREATE NEW GROUPS AND VIEW GROUP LIST

TEST	DATA PROVIDED	EXPECTED OUTPUT	ACTUAL OUTPUT
Click on groups and then create new groups on the navigation bar to the left.		Navigates to the create new groups page and displays the create new groups form.	Navigates to the create new groups page and displays the create new groups form.
Click on the reset button to clear any groups already created from the database.		Displays message indicating database successfully cleared.	Displays message indicating database successfully cleared.
Select number of students to be added per group from the dropdown and click submit.	Number selected.	Displays a list of groups and students assigned to the group.	Displays a list of groups and students assigned to the group.
Navigate to the group list page by clicking the group list link on the navigation bar to the left.		Displays a grid of groups from A to F and the students assigned to the group.	Displays a grid of groups from A to F and the students assigned to the group.

STUDENT LIST AND ADD NEW STUDENT

TEST	DATA PROVIDED	EXPECTED OUTPUT	ACTUAL OUTPUT
Click on students and then add new groups on the navigation bar to the left.		Navigates to the add new students page and displays the add new student form.	Navigates to the add new students page and displays the add new student form.
Input student details, make	Name, Course, Course code, Role	Displays a student successfully added message.	Displays a student successfully added message.

selections and click submit.			
Navigate to the student list page by clicking the student list link on the navigation bar to the left.		Displays a table of students.	Displays a table of students.

CHANGE PROFILE PIC

TEST	DATA PROVIDED	EXPECTED OUTPUT	ACTUAL OUTPUT
Click on the change profile pic link on the navigation bar to the left.		Navigates to the change profile pic page and displays a form with browse and submit.	Navigates to the change profile pic page and displays a form with browse and submit.
Click on the browse to select an image to be uploaded and click submit.	Image	Displays a message indicating image has been uploaded successfully and the profile picture on the navigation bar changes.	Displays a message indicating image has been uploaded successfully and the profile picture on the navigation bar changes.

ADD NEW REQUESTS AND VIEW REQUESTS

TEST	DATA PROVIDED	EXPECTED OUTPUT	ACTUAL OUTPUT
Click on students and then add new requests on the navigation bar to the left.		Navigates to the add new requests page and displays the add request form.	Navigates to the add new requests page and displays the add request form.
Input subject, details of request and click submit.	Subject, Reasons	Displays a request successfully submitted message.	Displays a request successfully submitted message.
Navigate to the view requests page by clicking the student requests link on the		Displays a table of student requests.	Displays a table of student requests.

navigation bar to the left.			

LOGOUT

TEST	DATA PROVIDED	EXPECTED OUTPUT	ACTUAL OUTPUT
Click on logout link shown on the top-right of the page.		Destroys current session and navigates to the login page.	Destroys current session and navigates to the login page.

ADMIN AND USER SECURITY

TEST	DATA PROVIDED	EXPECTED OUTPUT	ACTUAL OUTPUT
While logged in as student, add new groups, add new student, view all requests cannot be accessed by student.		Add new student, create new groups, view all requests links not available.	Add new student, create new groups, view all requests links not available.

GITHUB URL

https://github.com/Black-Sinatra/Afolabi-intranet-app

LOGIN CREDENTIALS FOR USERS

EMAIL	PASSWORD	ROLE
admin@intranet.com	123456	Admin
student@intranet.com	123456	Student