

SCHOOL OF COMPUTING SCIENCE AND DIGITAL MEDIA

CMM007 - Intranet System Development

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1.0 Web Application

This application is the supply to the demand for a research paper sharing application. The research paper sharing application will have the ability to upload papers, allocate papers, store papers, review papers, monitor and track papers, and to share project papers among a group of people. Due to the demand for such an application, an application which satisfies the need will be delivered in this project.

The application will have 3 user roles:

Administrator

Team Leader

Student

In order to be one of the above users, the user must be registered first. Furthermore, the user must be logged in to perform actions that are mentioned above such as reviewing, uploading, monitoring etc.

Administrators will be able to set up projects and allocate students and giving one of the students the role of a team leader within a project. the Team Leader will be able to perform actions after an administrator has sent them a **personalized link** and Team Leaders are only able to allocate papers to students for review. Moreover, students will only be able to upload research papers, see the papers that they have been allocated to and review them and also upload their reviews. Students will also be able to view all papers and reviews but only with a personalized link after the student has logged in.

2.0 Constraint

2.1 The research paper application will be hosted on a webserver.

- I. The whole project will be hosted on the university's webserver which is web-dev/ MYPHPADMIN.

2.2 The project will also have an up to date code committed to GitHub.

- I. All of the code of this project will be made available on github.com/Bazionaire/

2.3 The application will have both front and back end code.

- I. Back End code of this project will exist of the logic and the data that performs the user's requests. Whenever the user requests something, a query will run and respond to the user on the front end.
- II. Front end code will exist of the code that the user interacts with to execute tasks on the platform. The front end will be composed of beautiful and user-friendly design which will not be complex to execute. Front end features and design will be done by using HTML and CSS and to perform the functionalities, PHP and MySQL will be used.

2.4 The research paper application will have the following features:

- I. Login system which allows you to gain access and log out.
Security Mechanism which allows authorized users to log in and prevent unauthorized to log in. in order to achieve this function. HTML, CSS, PHP and MySQL will be used.
- II. More than one user role (*Authorization measure and Identity Management*)
 - (1) Administrator will be able to assign students with the role of a team leader. Furthermore, Administrators will be able to set up projects and allocate students to the project.
 - (2) The Team Leaders will be able to have the ability to allocate papers to students for review.
 - (3) Students will be able to get access through a link that has been sent by a Team leader.
- III. File uploading system
This functionality will allow the users to upload and download research papers. This functionality will be achieved through using MySQL as a database which is then connected to PHP and HTML/CSS.
- IV. System to input data and then recall it from a database
MySQL will be used as a database which will store the user details such as their credentials for logging in and also the uploaded files. For recalling data from the database, PHP will be used.

3.0 Functional and Non-Functional Requirements

The following are the functional and non-functional requirements:

Number	Functional Requirements	MOSCOW METHOD
1	User friendly front-end interaction interface	Must Have
2	User-Friendly Login and Log Out functionality	Must Have
3	Different user roles: Administrator, Team Leader and Student.	Must Have
4	Administrator will have the ability to create projects	Must Have
5	Administrator will have the ability to assign team leaders and allocate students to projects.	Must Have
6	Team Leader will be able to Upload papers and allocate students to projects for reviewing	Must have
7	Students should be able to enter the system through a personalized link.	Should have
8	Students will be able to upload research papers	Must Have
9	Students will be able to see any of the of the allocated papers and will be able to upload their reviews.	Must have
10	Students will be able to view all papers and reviews	Must Have
11	A database which stores projects, uploaded papers, student reviews, and comments made any of the user roles.	Should have
12	All the members within a project will be able to see comments and reviews among each other	Could have
13	System will have an authenticating system to allow users with authorized access to log in	Must have
14	Student being able to create projects	Won't Have
15	Team Leader being able to create Projects	Won't Have

Number	Non-Functional Requirements	MOSCOW METHOD
1	All users will be allowed to use the system	Must have
2	Application will be easy to use and user-friendly	Must have
3	Use of the system and the application shall run smooth to ensure good user experience	Must have
4	Application will have a back-up and recovery procedure in case of an incident	Must have
5	Application will be compatible with all devices	Should have
6	The application will have enough storage to store all of the data that it collects	Must have
7	The data on the application shall be consistent, accurate and reliable.	Should Have
8	Privacy measurements will be taken to ensure that the confidentiality of all users is maintained.	Must Have
9	The server of the application will be running at all times to ensure that the application is available at any given time.	Must Have
10	The application will meet the needs of the users	Should have

4.0 Wireframe and DataBase Designs

Figure 1 DataBase Design

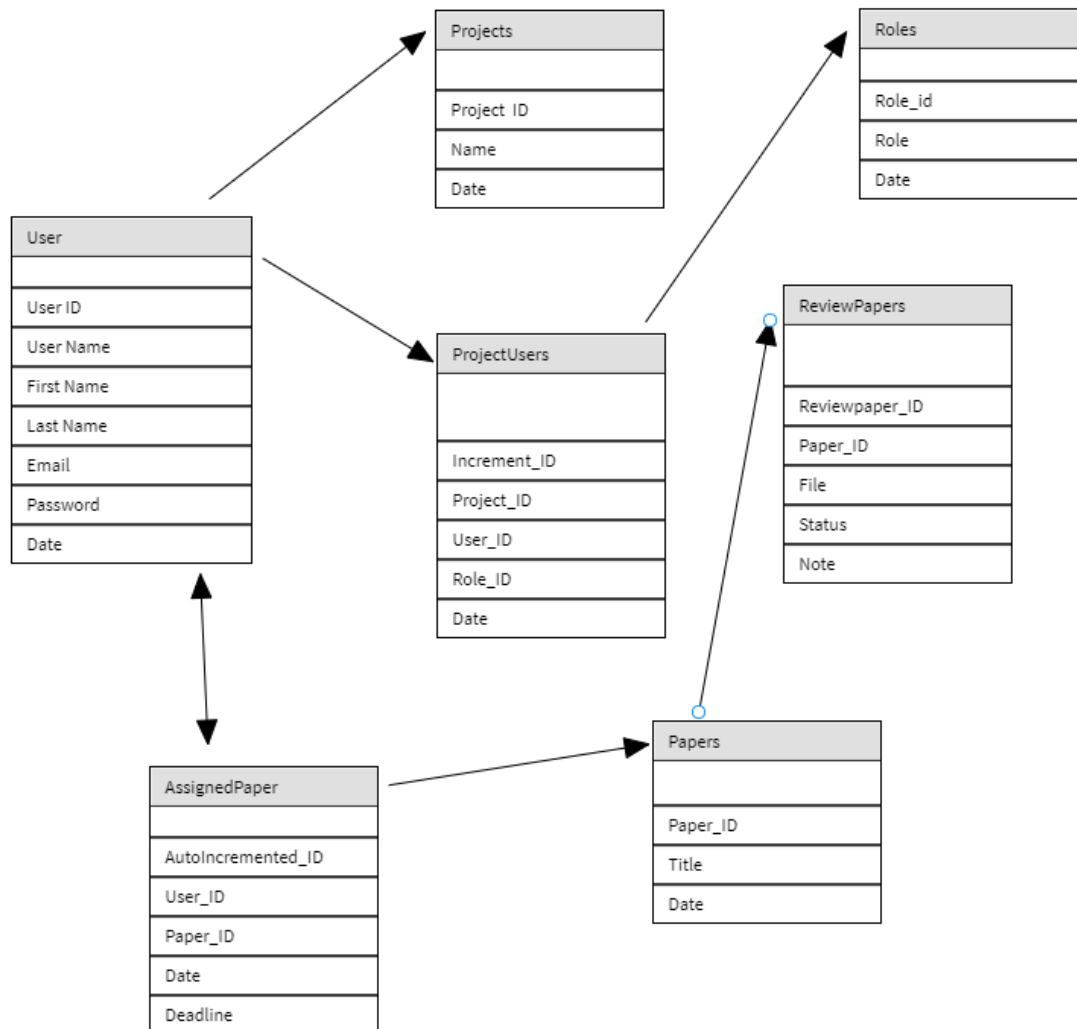


Figure II Welcome Page and Log In Page

www.ResearchPaperApplication.com

Home About Us Research Papers Upload Login

Welcome Page

Placeholder text for the Welcome Page content.

Login

Username

Password

☒ Remember me

Sign in

Forgot Password

Sign Up

Figure III Administrator: Create User Page

researchpaperapplication.com

Administrator Page

Create Project Browse Papers Project Users

Users

Create User

Manager User

Create User

First Name

Last Name

Email Address

Password

Role:

☐ Team leader

☐ Student

Create Account

Figure IV Administrator: Manage Users

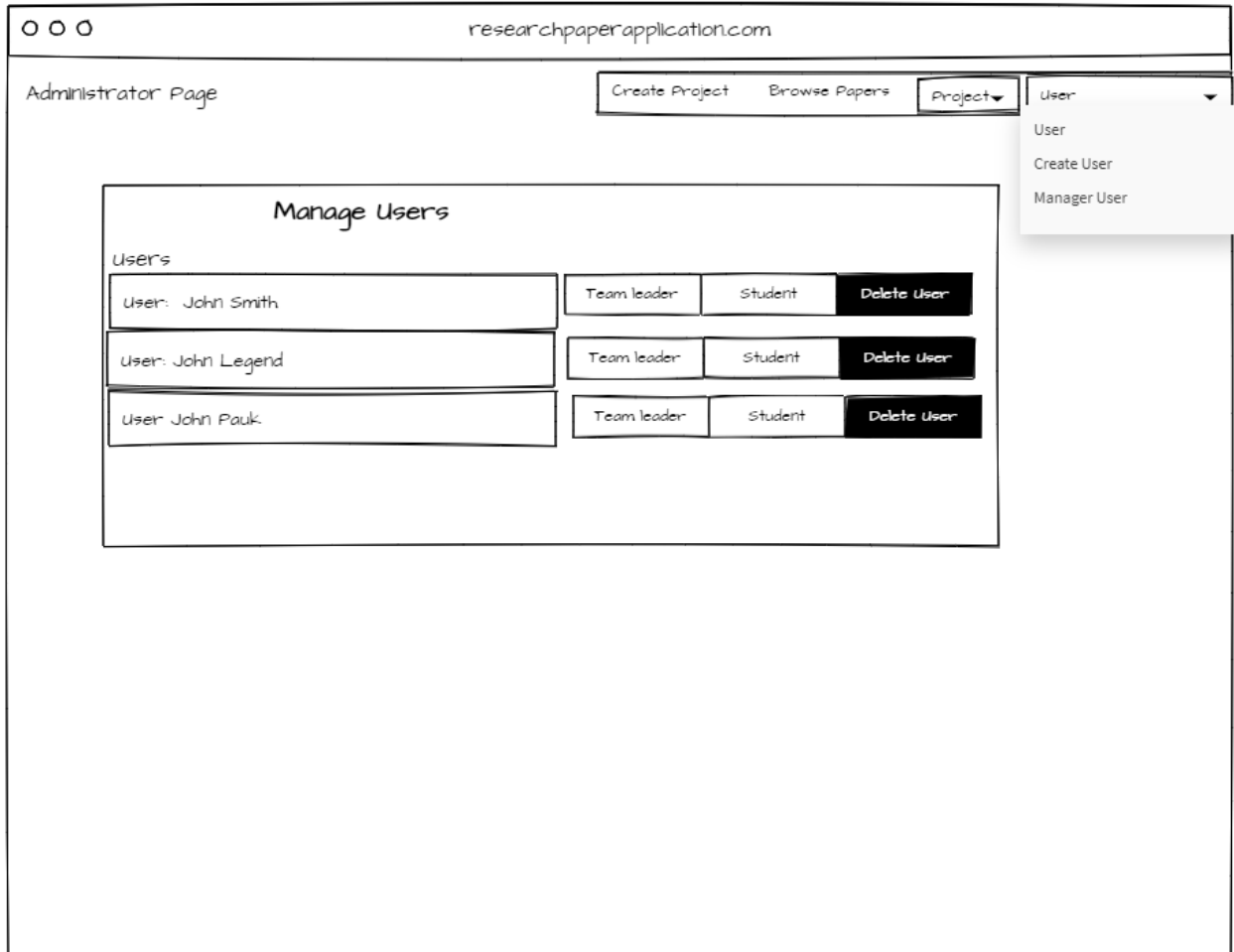


Figure V Add user to Project and Delete project will also be available to Administrator.

researchpaperapplication.com

Administrator Page

Create Project Browse Papers Project User

Project

- Project
- Add User to project
- Manage Project
- Delete project

Add User To Project

Project

Select project

Select User

Add

Figure VI Create Project

The screenshot shows a web browser window with the address bar displaying 'researchpaperapplication.com'. The page title is 'Administrator Page'. In the top right corner, there is a navigation bar with four items: 'Create Project', 'Browse Papers', 'Project' (with a dropdown arrow), and 'Users' (with a dropdown arrow). The main content area features a 'Create Project' form. The form has a title 'Create Project' and a label 'Project name' above a text input field. Below the input field is a 'Create project' button.

researchpaperapplication.com

Administrator Page

Create Project

Project name

Create project

Figure VII Manage projects

The screenshot shows a web browser window with the address bar displaying 'researchpaperapplication.com'. The page title is 'Administrator Page'. In the top right corner, there are two buttons: 'Create Project' and 'Browse Papers', followed by two dropdown menus labeled 'Project' and 'User'. The main content area is titled 'Manage project' and contains a table with three rows of project data. Each row has a project name in a text box, an 'Edit' button, and a 'Delete Project' button.

Manage project		
Projects		
Project 1	Edit	Delete Project
Project 2	Edit	Delete Project
Project 3	Edit	Delete Project

Figure VIII Browse Projects

The wireframe depicts a web browser window with the address bar showing 'researchpaperapplication.com'. The page title is 'Administrator Page'. A navigation bar contains the links 'Create Project' and 'Browse Papers', followed by two dropdown menus labeled 'Project' and 'User'. The main content area is titled 'Browse project' and contains a sub-section labeled 'Projects'. Within this sub-section, there are two boxes: 'Projects(0)' and 'Reviews(0)'. Below these is a large, empty rectangular area, likely a table or list container, with a small icon in the bottom right corner.

Figure IX Submit Paper to project

The image is a hand-drawn wireframe of a web application interface. At the top, there is a browser window header with three small circles on the left and the URL "researchpaperapplication.com" in the center. Below the header, there is a navigation bar with two buttons: "Create Project" and "Browse Papers". To the right of these buttons are two dropdown menus, one labeled "Project" and one labeled "User". The main content area contains a form titled "Submit Paper". Inside this form, there is a section labeled "Projects". Below this label, there are two rows of input fields. The first row has a label "Project:" followed by a text input field and a small icon of two slanted lines. The second row has a label "Paper:" followed by a text input field and a small icon of two slanted lines. Below these input fields is a dark rectangular button labeled "Upload".

Figure X Assign Paper to User

The image is a hand-drawn wireframe of a web application interface. At the top, there is a browser window header with three circles on the left and the URL "researchpaperapplication.com" in the center. Below the header, the page is titled "Administrator Page". To the right of the title, there are two buttons: "Create Project" and "Browse Papers". Further right, there are two dropdown menus, one labeled "Project" and one labeled "User". The main content area is a large rectangle containing a smaller rectangle titled "Assign Paper for review". Inside this rectangle, there are three labels: "Project", "User", and "Paper". Each label is followed by a dropdown menu with a downward arrow. The "Project" dropdown is labeled "Select project", the "User" dropdown is labeled "Select User", and the "Paper" dropdown is labeled "Select Paper". Below these three dropdowns, there is a button labeled "Add".

Figure XI Submit Review

The screenshot shows a web browser window with the address bar displaying "researchpaperapplication.com". The browser's navigation bar includes buttons for "Create Project", "Browse Papers", and dropdown menus for "Project" and "Users".

The main content area features a form titled "Submit Review". The form is organized into three rows, each with a label on the left and a corresponding input field on the right:

- Project:** A dropdown menu with the text "select" and a downward arrow.
- Paper:** A text input field with the placeholder text "Upload Paper..." and a small icon of a document with a pencil at the bottom right.
- Review:** A large, empty text area for writing the review.

At the bottom right of the form, there is a dark button labeled "Submit Review".