A System Design Project Report on

LMC Connect

Submitted in partial fulfillment of the degree of
Bachelor of Computer Applications
VI Semester

Submitted by

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Under the Supervision of

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Jodhpur

2020

Faculty of Computer Science

Lachoo Memorial College of Science & Technology (Autonomous)

CERTIFICATE

This is to certify that the System Design Project entitled

LMC Connect

has been designed and developed by

Vishnu Tanwar

In partial fulfillment of the degree of BCA VI Semester Examination 2020, under our supervision and guidance.

Prof. (Dr.)Priyadarshi Patni
Director
Faculty of Computer Science

Date:04/10/2021

Acknowledgement

We are grateful to our respectable teacher, Prof. (Dr.) Priyadarshi Patni, whose insightful leadership and knowledge benefited us to complete this project successfully. Thank you so much for your continuous support and presence whenever needed.

However, we would like to express our deep appreciation and indebtedness to our teachers and supervisors for their endless support, kindness, and understanding during the project duration.

Also, we would like to thank all our relatives, family, and friends who supported us in one way or another.

Vishnu Tanwar

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1. Introduction

The aim of the project is to build a social interactive system between alumni, students, and institution. A system that will be enables students and alumni of an institution easy access to the system using web based application.

The student-alumni network is becoming important in the development of the institution because of its vast potential that benefits both the institution and the students.

Students can communicate to the alumni and seniors regarding job/internship opportunities, career guidance furthermore, the students can also share the departmental activities and can take help for the same.

2. Need

•Support System: An engaged social network allows the university to benefit from the skills and experience of our graduates, by offering their support to students, to the institution and to each other. If we keep them well informed and well engaged, alumni are our most loyal supporters and our best mentors, offering invaluable marketing and promotion across their personal and professional networks.

• Sharing skill or knowledge: Talented students/alumni will likely have a wealth of experience and skills to share with others via talks and meets. In certain cases, this could go even further by offering to practically support students in work placements and help them launch their careers.

• Assistance in Employability: This type of student-alumni network has a real life benefit for everyone. Alumni can also donate their valuable time to offer career support to students. This enhances the students experience and gives them that competitive edge in today's tough job market. The alumni network of a college is one of the biggest sources of placement opportunities to the students.

• Communication: This system allows users to communicate with other users of their department without the barrier of follow, unfollow and connect type of system. A any user from the same department can interact with other by commenting on their post or requesting social access

3. Existing System with Limitations

The existing system to connect students with their alumni and senior consists of networking platforms such as LinkedIn, Facebook, or WhatsApp groups are each useful in their own way but they don't serve the whole purpose.

Limitations:

- All the existing platforms for connecting with institute members are slow and formal.
- In the existing system if you want your query to reach out to every student (current/alumni) of that department, you have to connect manually to each user.
- The existing alumni/student database is not easily accessible.
- The existing system is not customized enough for institute level usage.

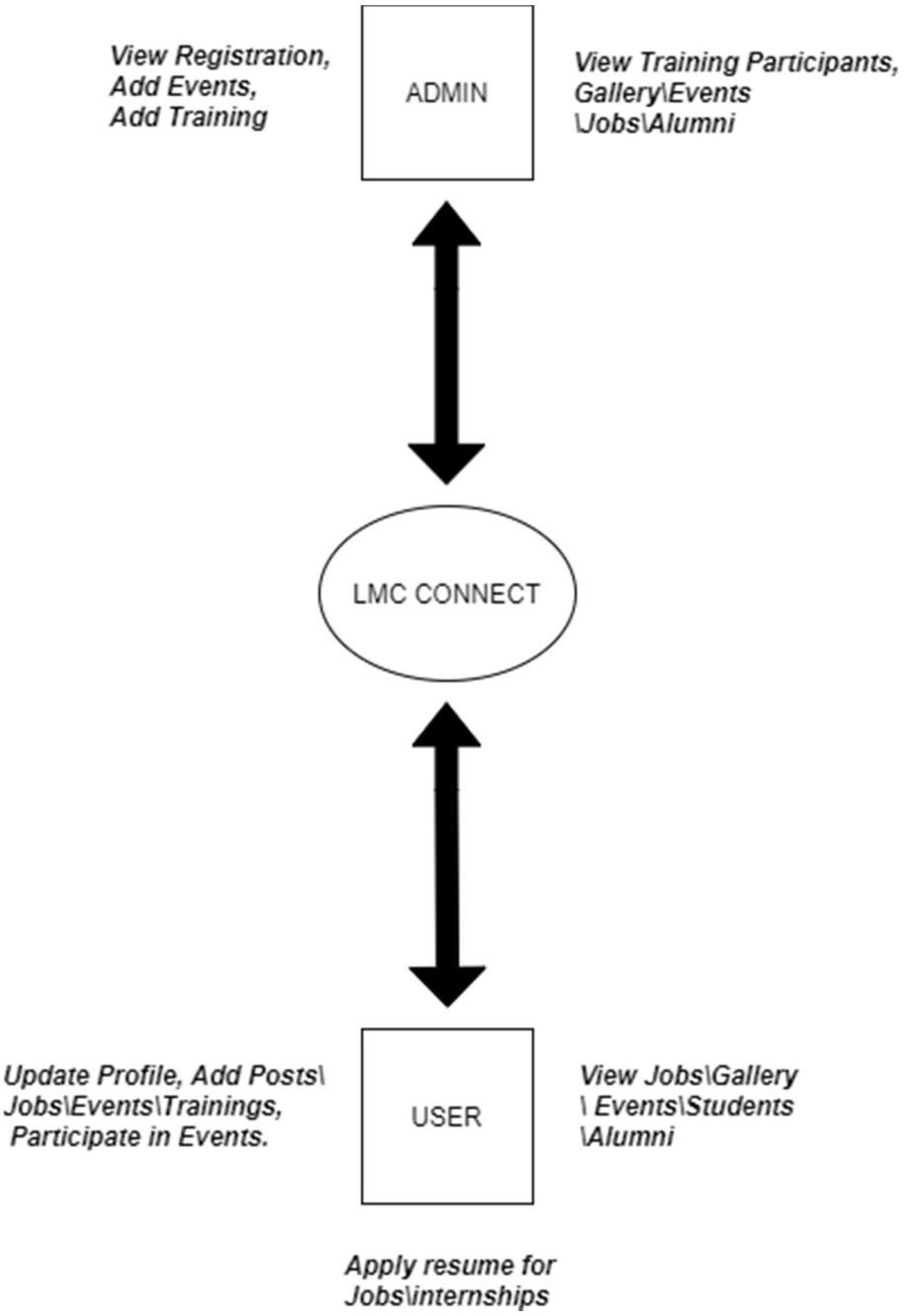
3. Proposed System with advantages

The Proposed System is a website that allows you to login onto it after registering and verification. It allows you as a user to view all of your departmental activities and announcements updated by administration. Job openings, available Internships, other career, and academic related posts posted by the users of your department.

Advantages offered by the system are:

- Users can post career boosting information on the system for other users.
- User can interact with the posted post by commenting.
- We give a feature to get resume from the user if the post owner is posting any job opening or internship opportunities, in this users can send their resume on the post and post owner can view and download all of the received resumes on the particular post.
- System gives a feature of adding links to user's other social handles namely Facebook, LinkedIn, Instagram, WhatsApp. User can set each of them as private or public. Private handles will be restricted to all but users can request access for them. Only allowed users would be able to get your social link. On the other hand, public ones are open and accessible to all the other users on the system.
- System is departmentalized as the users only see the posts posted by other users of their department but still the posts can be shared to other departments, there is no restriction in viewing other department posts. As there are many such events and activities in the institute which is not department wise.

4. Process / Working



4. Working

The web site allows students and alumni to register and then view the posts/events. In addition, it has the benefit of having a centralized database and up to date information. Admin(s) can easily obtain information about all registered users.

Registration Module: It allows user to register/add information about them.

Login Module: This module verifies the information added by the user by username and password and login the user.

Home Module: It is the main preface in the system that shows all the posts posted by your department users. This module also provides user to view their profile summary, notifications and announcements from the admin. It includes two more functionalities, which includes an option to add post and another to view saved posts of the user.

Menu Button: This module provides user with four options to view, edit, and account settings and logout options.

Profile Module: Provides user to view personal details (Bio, Course, Skills) and posts of various jobs, internships, events etc. that will help user grow personally in terms of career. It also helps users to add new posts.

Edit Profile Module: Provides user to edit profile image and personal details (Bio, Course, Skills) and change access (public or private) to their social media handles such as WhatsApp, Instagram, and Facebook etc.

Account Settings: Provides user with privileges to change name, username, email, password and department. It also has an option to delete the account.

Admin Dashboard: Dashboard which is only accessible to admin and gives the statistics of the whole system by giving total user count, posts count, etc. It also gives admin an option of make announcements department-wise or for all. As well as gives the admin option of access user's account settings, option to delete and restore users.

Logout option: After visiting the website, user can logout his/her profile and return to the main landing page.

5. Feasibility Study

Since we are going to develop a system, it is fair to see some conditions regarding to cost clients (end users), security and time of performing the activity. Feasibility is the preliminary study undertaken to determine whether the solution considered to accomplishing the requirement is practically successful and workable in the software application.

A). Technical Feasibility

With the use of the tools and resources available to us, it was highly feasible to develop LMC Connect. We did a detailed study of the various requirement of the system and on in-depth analysis concluded that it was possible to technically develop the project.

The developers satisfy all the requirements of the institution management System. It is able to efficiently mimic the present system with many added features and productivity tools. Thus we can conclude that project LMC Connect technically feasible to develop and implement.

B). Behavioural Feasibility

It evaluates and estimates the user attitude or behaviour towards the development of new system. It helps in determining if the system requires special effort to educate, retrain, transfer, and changes in employee's job status on new ways of conducting business.

C). Economic Feasibility

Economic feasibility is the study of "the measure of cost effectiveness?" That is because we sometimes call economic feasibility as cost benefit analysis. In this study, we cannot be sure in deepness since the study is still at the beginning of the project. There is very low cost involved right now however in the future we might have to purchase certain hosting service and domains for the system. However, even after that the project LMC Connect is economically feasible to develop and implement.

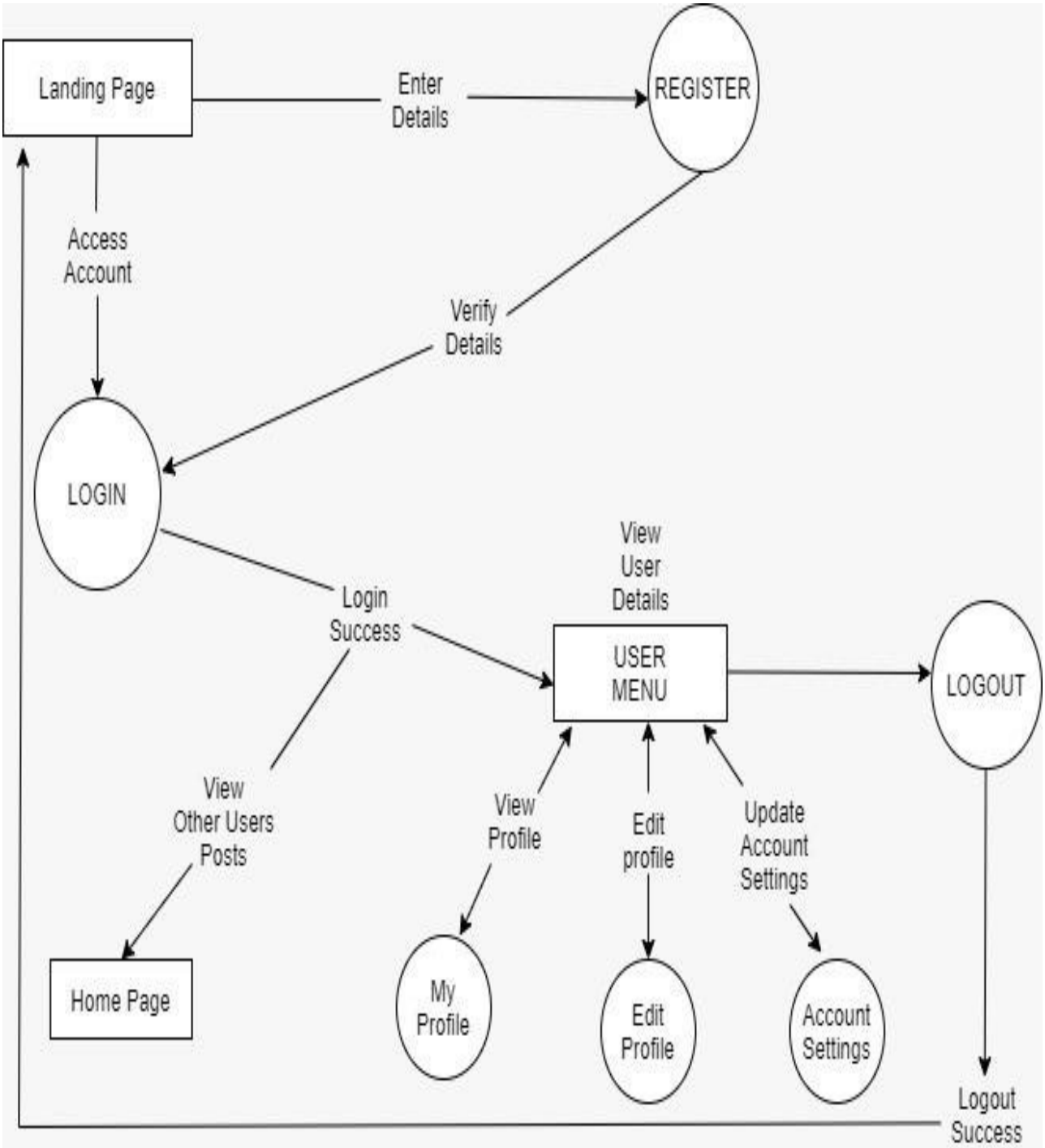
Benefits:

The benefits of the system include:

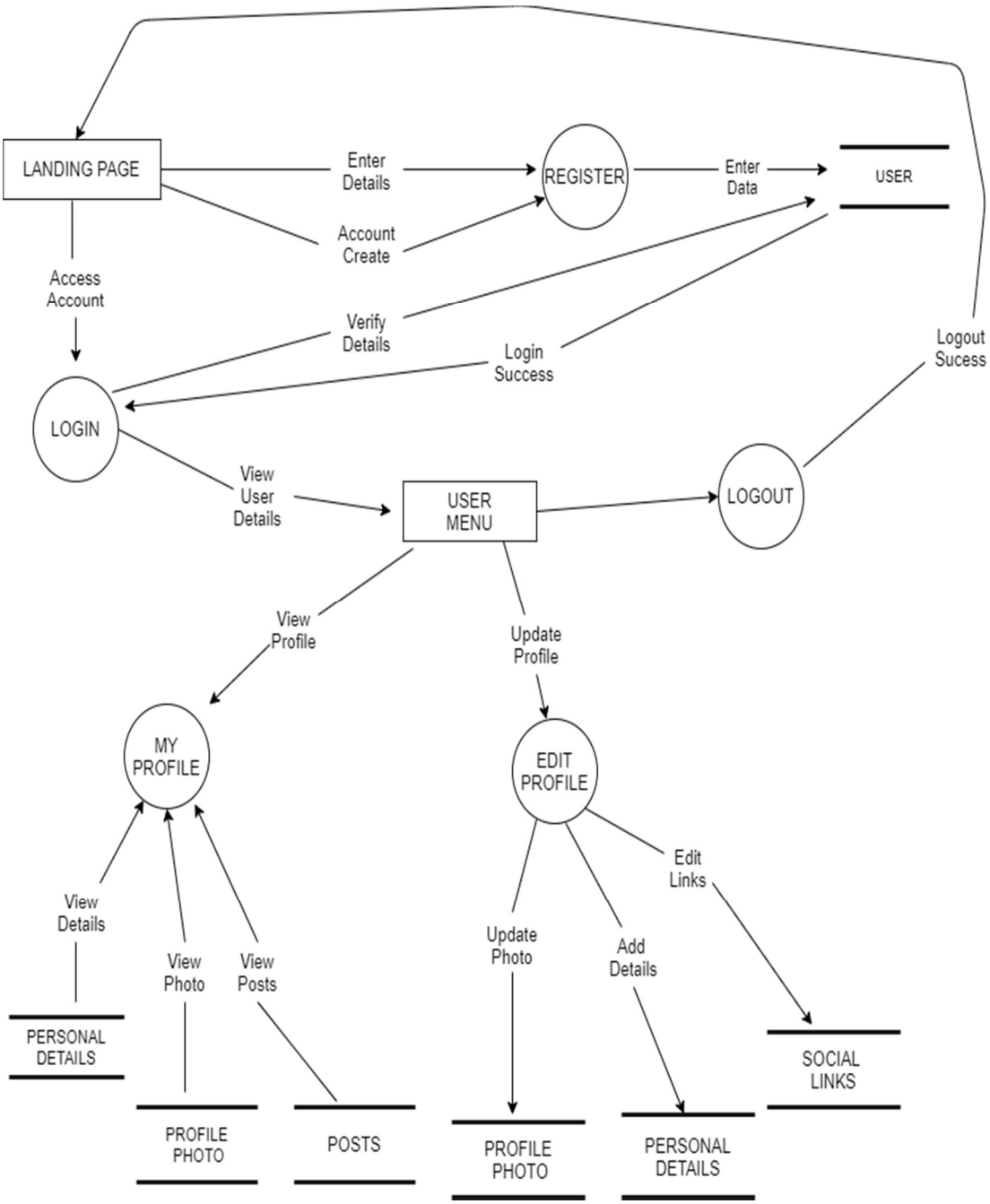
- Gives an inter college/institute social media platform oriented to academic and career development.
- Gives easy access to users to get in touch with other users of their department.
- Gives a proper managed and UI driven system to institute with properly implemented administration panel.

6. Data Flow Diagrams

1. Context Level Diagram

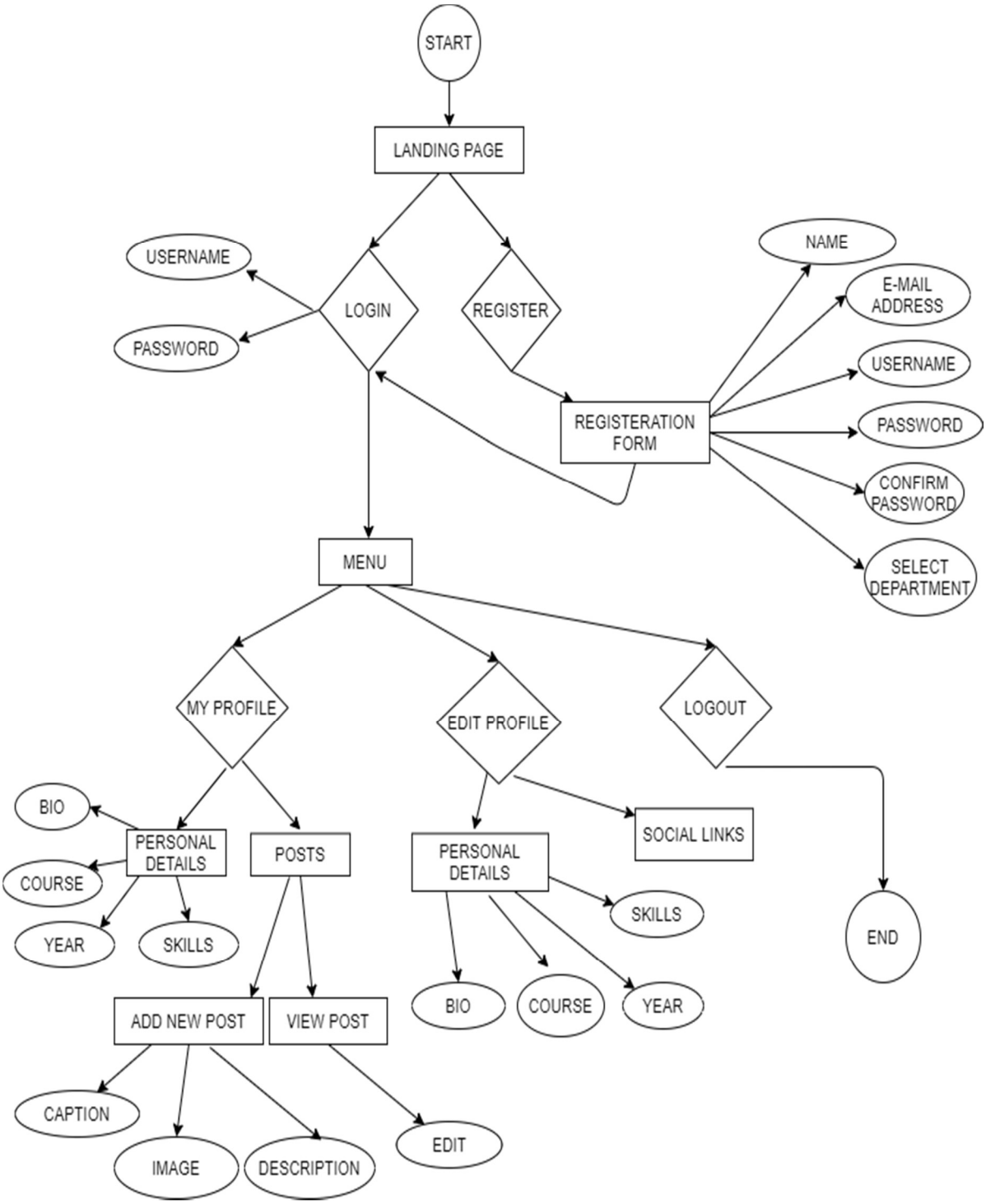


2. Level 1 Diagram

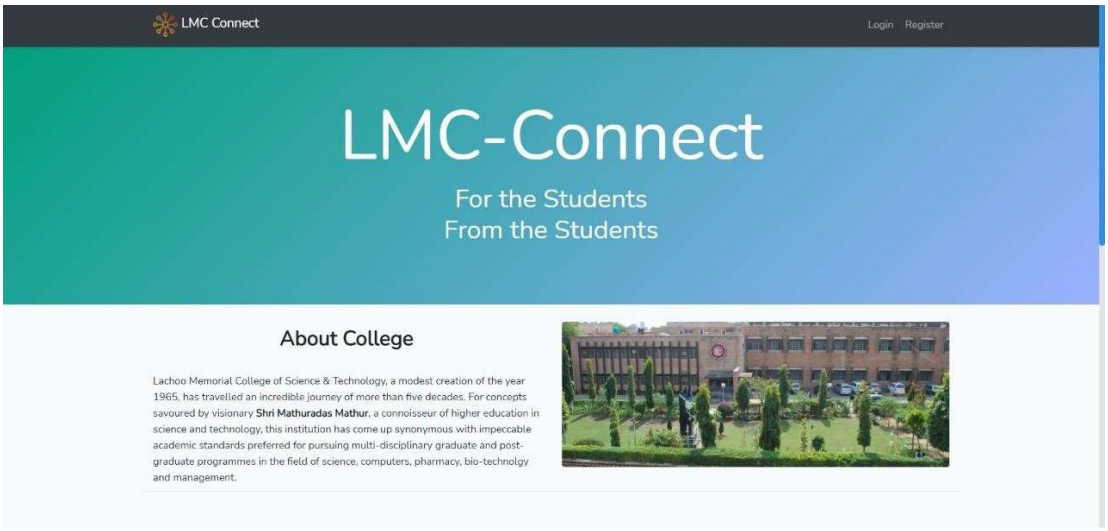


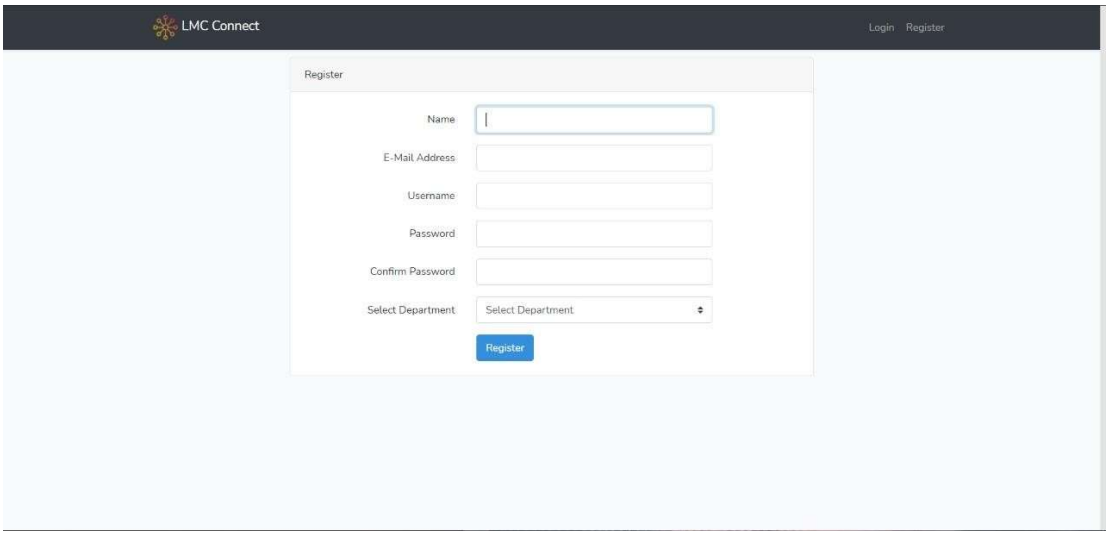
7. E R Diagram and Database Tables

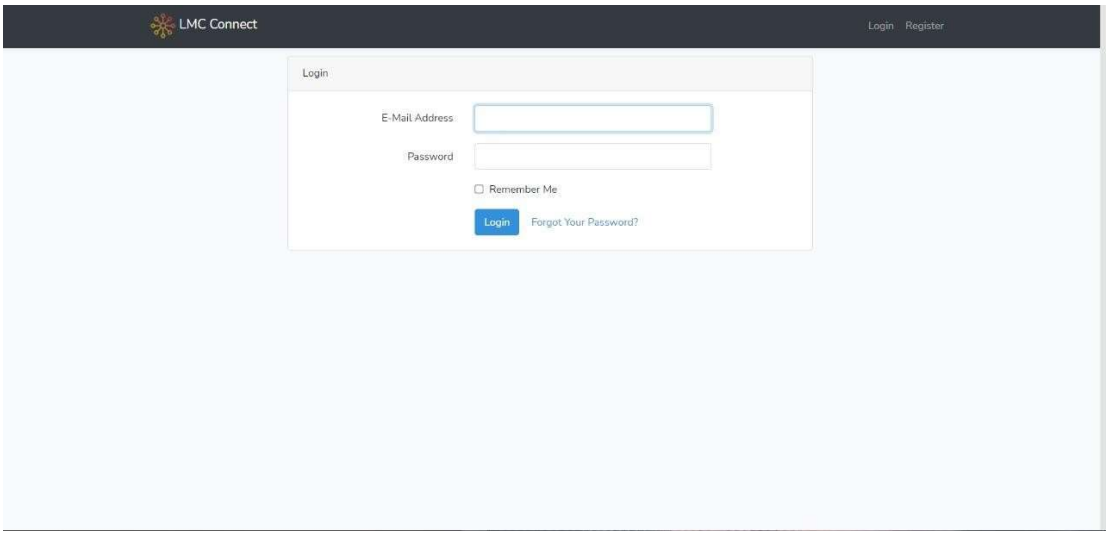
NOTE: **Bold** = Primary Key *Italics*= Foreign Key.

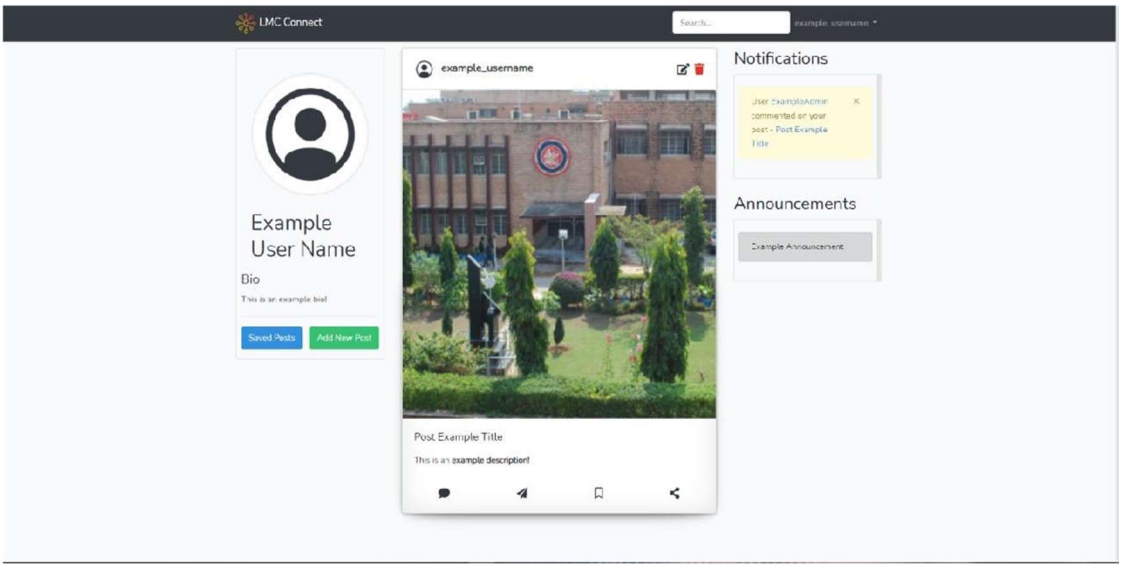


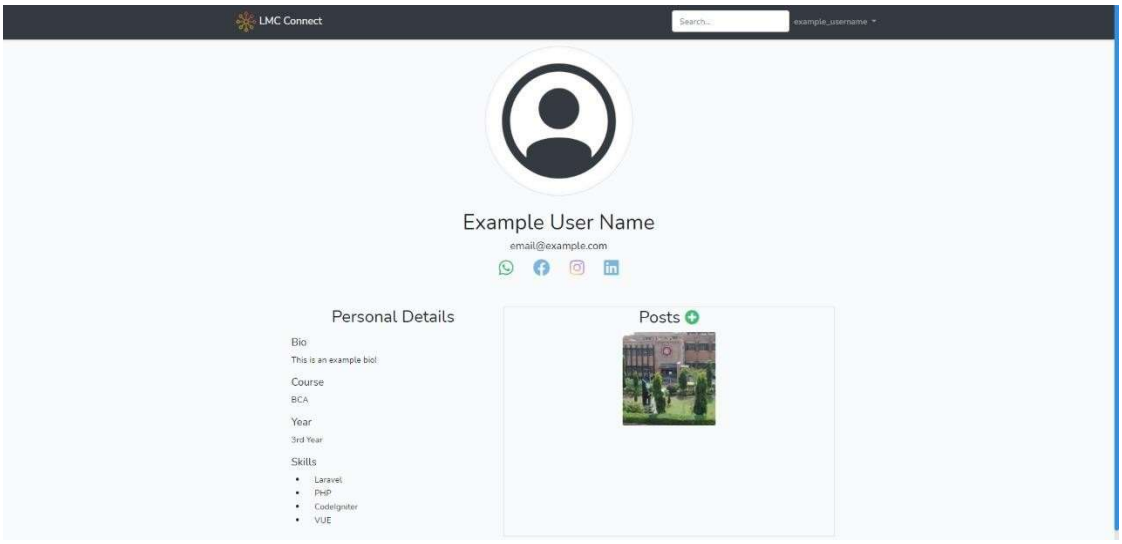
8. Project Design (Screenshots)

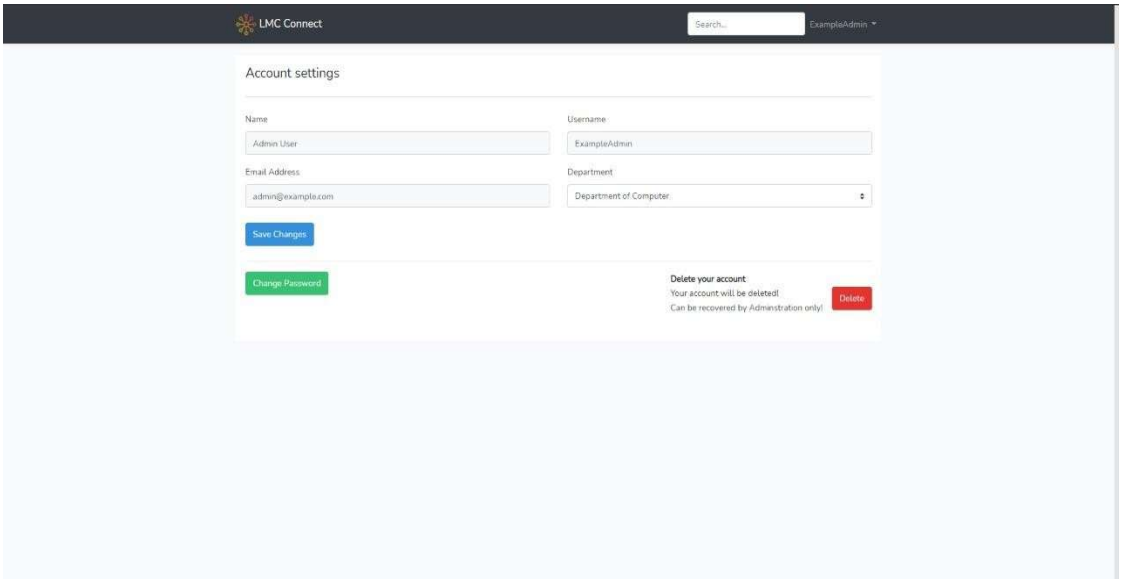


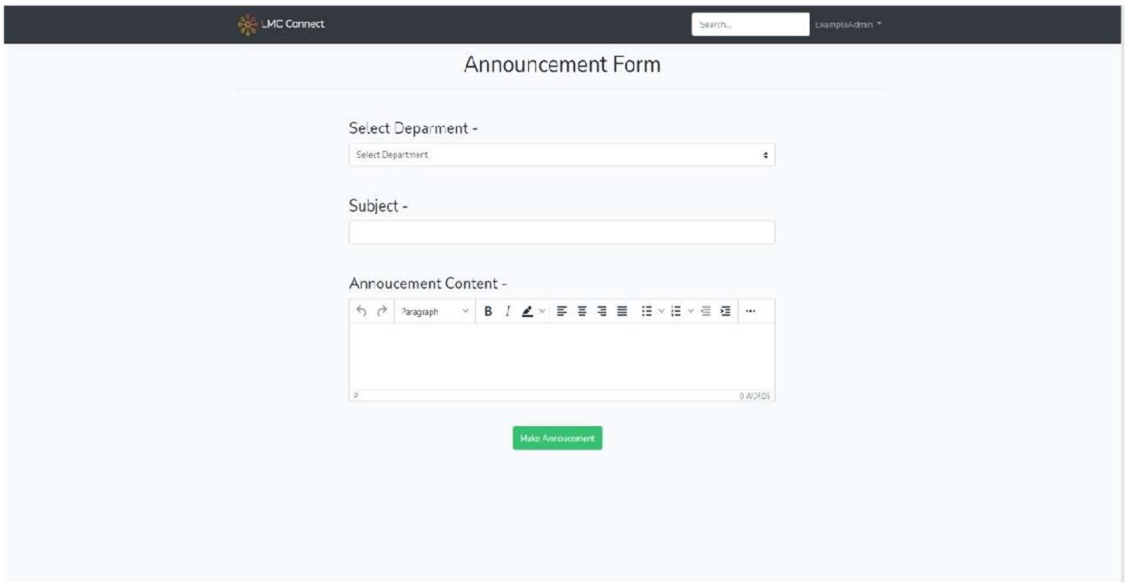


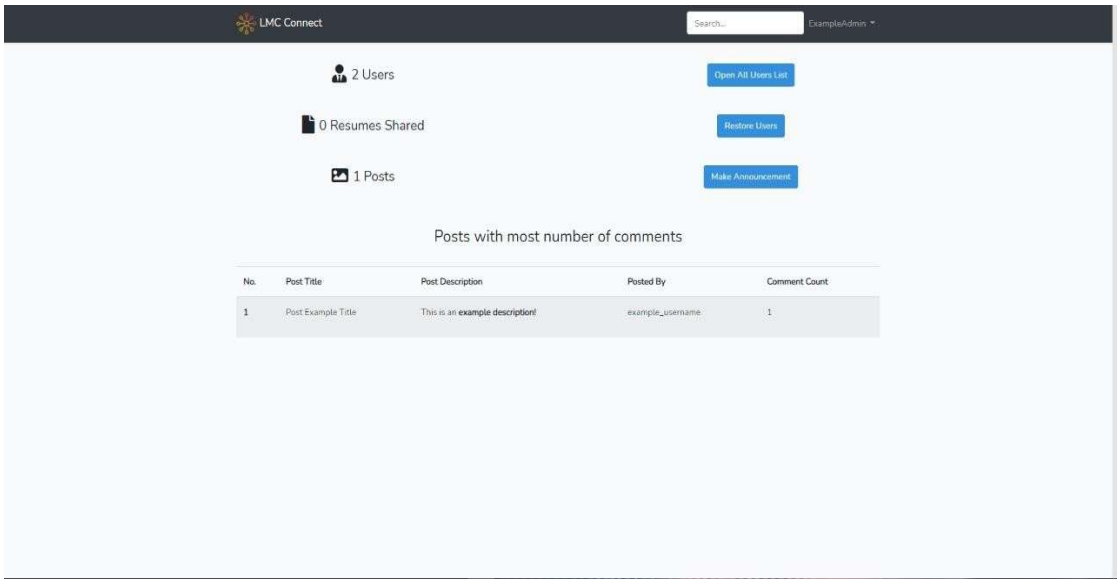


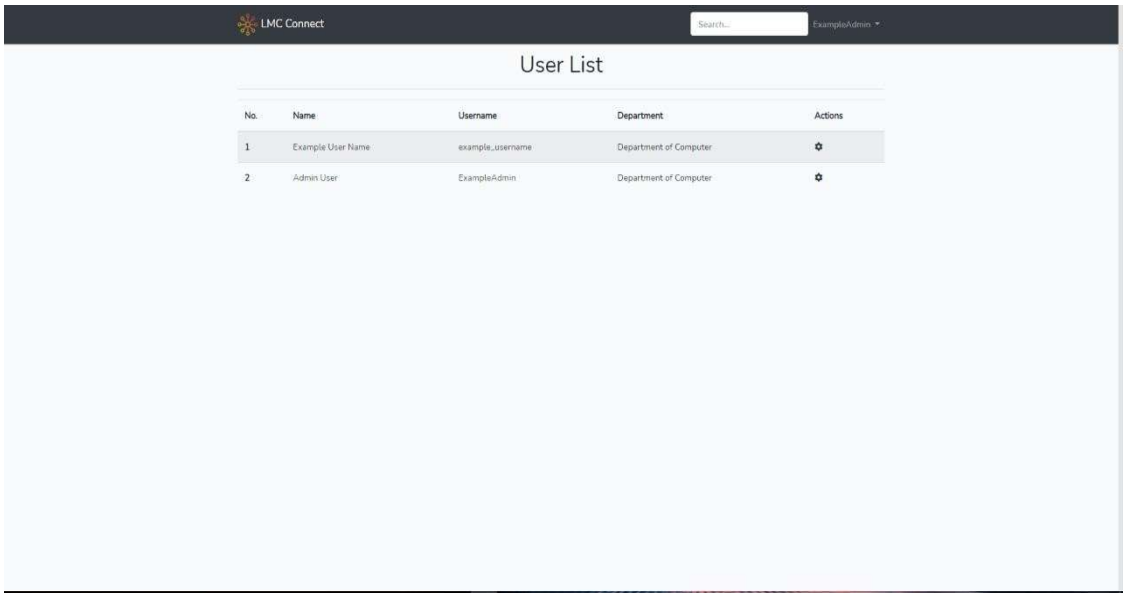

LMC Connect
Search...
example username
example_username
Example
User Name
Bio
This is an example bio!
Saved Posts
Add New Post
Notifications
Announcements
Example Announcement
Post Example Title
This is an example description!


LMC Connect
Search...
example_username
Example User Name
email@example.com
Personal Details
Bio
This is an example bio!
Course
BCA
Year
3rd Year
Skills
Laravel
PHP
Codelgniter
VUE
Posts


LMC Connect
Search...
ExampleAdmin
Account settings
Name
Admin User
Username
ExampleAdmin
Email Address
admin@example.com
Department
Department of Computer
Save Changes
Change Password
Delete your account
Your account will be deleted!
Can be recovered by Adminstration only!
Delete


LMC Connect
Search...
ExampleAdmin
Announcement Form
Select Deparment -
Select Department
Subject -
Annoucement Content -
Paragraph
0 WORDS
Make Announcement


LMC Connect
Search...
ExampleAdmin
2 Users
Open All Users List
0 Resumes Shared
Restore Users
1 Posts
Make Announcement
Posts with most number of comments
No.
Post Title
Post Description
Posted By
Comment Count
1
Post Example Title
This is an example description!
example_username
1


LMC Connect
Search...
ExampleAdmin
User List
No.
Name
Username
Department
Actions
1
Example User Name
example_username
Department of Computer
2
Admin User
ExampleAdmin
Department of Computer

9. Future Enhancements

Chatting Feature

It would be very useful if users can directly video call or chat or call the other users. The system that was implemented does not offer this functionality. However, the system offers a feature to request social handle access of other users. The chatting functionality can be easily implemented in the existing system.

SAAS Product

The system can be converted to Software as a Service (SAAS) product easily which can offer various institutes their own social platform. The system is configurable and adjustments can be made according to the need of the Institution

Automating Moderator Controls

One of the main problems with social platforms with huge user is to maintain the integrity of the platform. So one of the major enhancements can be automation the Moderating controls so the spam and irrelevant posts and user activity can get removed or reported to the administration.

Advance Admin Controls

Admin controls given by the system can be enhanced by giving filtering options on user list and post list. This can help the administration to control the platform easily and efficiently

10. Conclusion

LMC-Connect are aimed to help the students, alumni and administration of the institution to have easily available interaction to help each other in career option(s). With the help of carefully selected questions and a strong evaluation algorithm, the system should be able to guide students towards the best path possible and help them to create a great career and future.

LMC-Connect provide a networking platform for students, alumni, and administrators to connect and share ideas for academic and professional development by taking guidance of seniors, alumni and administration.

11. References

1. https://stackoverflow.com/
2. https://google.com/