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Sukkur IBA University

Development of Web application for Sukkur IBA
University Alumni

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Abstract

Keeping the members connected within organization has become the pre-requisite for any organization to grow. It becomes necessity when number grows. Sukkur IBA university is growing educational organization of Pakistan, it has large number of alumni. Therefore, managing their record, keeping them updated and connected, and providing them access to University resources has become necessity of time. We propose a web application that will allow its alumni to be in touch with each other, share their stories, and remain updated of any events within organization. Further, the new batches can get motivation and useful information by the proposed platform.

Keywords: Alumni, web application

Introduction and Background

Sukkur IBA university is an organization that comes under many searches on internet. It has its official website, that provide information about organization, about staff, courses and many other things, but there is no platform to show success stories, no way of interaction between alumni members, students have no personal account on website to write blogs, alumni is unaware of upcoming events, and members are not updated with News and advertisement. Therefore, a platform to provide all these facilities to alumni will be a great.

We are going to develop a web application rather than website, that will provide multiple features and facilities to current and pass out students, faculty and staff members. Front-end of system will be developed using HTML5, CSS, Bootsrtap, ReactJs, Javascript and its libraries. Backend support will be provided using Javascript and its frameworks like Node Js, Express Js. MySQL or PostgreSql database will be as data storage systems.

Problem Statement

As members increase within organization, its need for stronger alumni network increases.

Following are some problems that are encountered by alumni at Sukkur IBA university:

1. Record tracking is done manually.
2. When it comes to retrieve particular information, it consumes a lot of time.
3. To maintain all user is difficult process.
4. Success stories are not shared with the undergraduate students to motivate them.
5. Current students and faculty are less engaged and involve in weaker network.
6. Students are not informed about the programs and new events.
7. A platform does not exist in which alumni can update profile, have storage of student data and access is provided to staff and students.

Literature Review

The alumni websites of Harvard University[1], Michigan university[2], UNC[3], Indiana University[4] and Boston university[5] represent a good model for such platform. But these website do not provide a map to indicate the regions to which alumni members belong. The map will provide an essential information to visitors to know the location of alumni members. Further, corner of success will be developed in our proposed system to acknowledge the hardwork, to pay the attribute to successful members of organization.

Project Technical Approach & Methodology

As described earlier, the front-end of web app is to be developed by HTML5, CSS, Bootstrap and ReactJS along with JS. The back-end of application will be developed by NodeJS and ExpressJS along with MySQL or PostgreSQL database systems.

The system will mainly contain Login/Register feature, a Home Screen, Events section, Gallery, News and advertisement, Corner of success, About, Map, Contact Us and Blog pages.

Home page: Shows trending events, recent success stories, sliders and a header for more navigation.

Login/register: It will require credential for login, and registration to the system.

Events: This page will show all upcoming, past and trending events added by admin.

Gallery: This will contain memories, images of faculty, students and staff.

News and Advertisement: Internal and external news like details about scholarships etc.

Corner of success: This page is the special page, it will contain the success stories of members with their achievement and history.

About: Will state the information about platform, developers and institution.

Map: It will help to search for specific alumni location

Contact Us: Contact information and email subscription for alumni members

Blog: Alumni members can write stories, interests and different informative content.

The users of system will be alumni. Their authentication will be made by a unique user name and password i.e CMS ID and password or email for students. There will be a dashboard for application administrator, who will check the content posted by members, blogs written or new account registration requests. Administrator will be able to add images to gallery, add upcoming events, and post multiple types of contents.

Project Timeline

The project is to be started right after the proposal acceptance. In the first 2 days, requirement document will be prepared. Front-end will be developed in the next week of timeline, Database design, connectivity and backend operations are to be completed at the last. The project is expected to be finished before 15th of June 2021.

Work Division

All types of work including front-end designs, backend development with database and documentation is to be done by all team members. This is because to utilize and enhance the skills of each member in the group.

Output of project

The platform will help the staff and students to engage in strong network. The web app will be accessed by anyone and information can be accessed from anywhere. There will be easy to share success stories with undergraduates and it will require just a few clicks. Student's data will be managed effectively and easily. The system will be fast, user friendly and will provide accurate results with interactive interface.

References

- [1]: <https://alumni.harvard.edu/>
- [2]: <https://alumni.umich.edu/>
- [3]: <https://alumni.unc.edu/>
- [4]: <https://alumni.iu.edu/index.html>
- [5]: <https://www.bu.edu/alumni/>

The End