

Implementation of Social Media Site for College

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Abstract: *In today's life, social networking sites has become one of the most popular Internet applications and has a large number of users. The public social networking systems have meet the communication demand of people, there is insufficient assistance to get connected to the users learning, professional life, and cultural life on campus with their real life activities. We have seen in the pandemic that college struggled lot to get connect with their students, so this website will give solution if something like pandemic ever happen again. Also colleges always rely on the platform such as whatsapp to connect with their student online but on such platform only limited featurers are given. Therefore, this project design made a new campus social networking site for users, which is very closely connected to the user requirements of real environment of campus and users real activities. It will also give a platform to college where college can add as many features as they want according to the requirement. In this paper, a design and implementation of social media site for college campus is achieved. This website enables interaction of all the users like students, teachers, professors etc. It has all the features the user can expect plus more exciting and useful additional features which will help users in their college life. It has been implemented using ReactJs, MongoDB, CSS, Nodejs. Details of the implementation are below in this paper.*

Keywords: Social Media Site

I. INTRODUCTION

In this world where technology is growing so fast and everything is being digital. So why not college can provide digital facilities to their and teachers. So the paper aims to show the implementation of social media website which is particularly developed for college. Also we have seen that college always rely on platform like whatsapp to connect with their student but we have only limited features on such platforms. This social media website which we are implementing can have as many features the college want to add. This website consist all the possible features which can help user in their college life.

II. LITERATURE REVIEW

Al-Busaidi(2014)[1] : explains in their paper social networking sites for group work in government organizations and the study consider Information Technology (IT) managers' awareness of the strengths, weaknesses, opportunities and threats (SWOT) of using social networking sites (SNS) for group work at government organizations. The study is included a Delphi technique and questionnaire in Oman, Middle Eastern country, the data was collection through a web-based. Finally, author concludes that social networking sites are some possible for group collaboration in government organizations other than also some risks and the use of social networking sites are helps in government organizations for internal operations.

Mahajan et al(2013) [2]: conduct a comparative study on use of social networking sites among the research scholar of two universities in India. The paper is also contains questionnaire method, questionnaires are distributed randomly and the data collects from Panjab University around 500 research scholars and Kurakshetra University has around 450 research scholars. The author find out in their study that the majority of the research scholars (both university) are aware of the social networking sites and Facebook is the most usually using social network site in both university. The majority of the 54 per cent of respondents are satisfied from the use of social networking sites from both the universities.

Kenchakkanvar(2015)[3]: describes Facebook and Twitter for academic libraries in the twenty first century. The paper focus on effectiveness of using online advertising on the social networking sites Facebook and Twitter in academic libraries. Social networking sites focus on new avenues for communication and relationship with their users. Many libraries are using social networks to connect their users in the online environment. The author explains that Library and information science

professional's in the 21st century necessity need to use of social networks and this present technology presents technical options for academic librarians and it offers to users to access the library's resources without leaving. Finally the author concludes that social networking sites through library services are always needful to the users to discussing problems, query, asking questions, library holidays, new book posters, new book lists, reserving book facility due date extensions, instruction sessions or classes etc.

III. IMPLEMENTATION

To implement this website, the implementation divides into two parts that are front end and back end of this site. The front end includes the design of this site and the back end includes the main source code of this site. For front end, we used HTML and CSS. The site is based on React Js, and use NoSql database that is MongoDB for data storage. Social media Rest API created using Node Js. Social media UI design using React functional components and React Hooks.

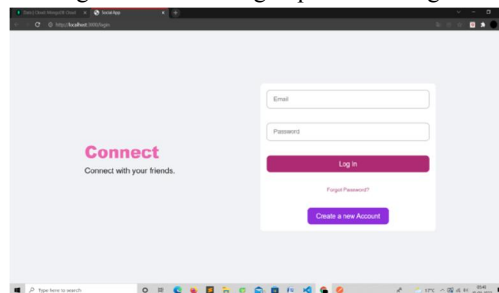
3.1 Software Requirement

The website is designed and implemented using the following technologies and software

- HTML it is an abbreviation for Hyper Text Markup Language.
- CSS it is an abbreviation for cascading style sheet which is used to give colorful design to the website. Make the website which will attract user.
- ReactJS offers graceful solutions to some of front-end programming's most persistent issues, allowing you to build dynamic and interactive web apps with ease.
- NodeJS is primarily used for non-blocking, event-driven servers, due to its single-threaded nature. It's used for traditional websites and back-end API services but was designed with real-time, push-based architectures in mind.
- MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License (SSPL).

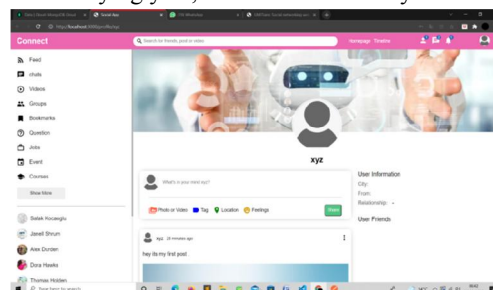
3.2 Log in Page

Where students and teachers have the college email Id can sign up and then login to their account.



3.3 Profile Page

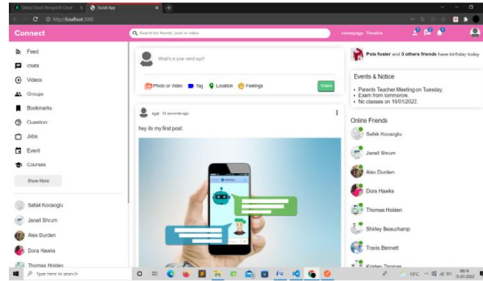
On profile page user can edit their personal information such as City, Name, Profile Picture, their current studying year, their branch of study etc.





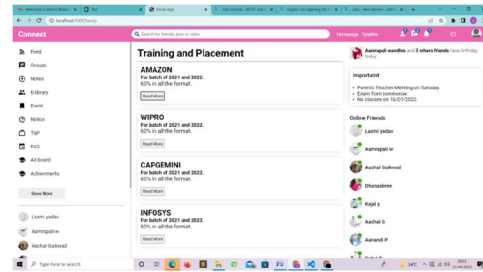
3.4 Feed

On this page user can see the post which is posted by his/her friend , also the important notification, search icon to search friends, post, etc.



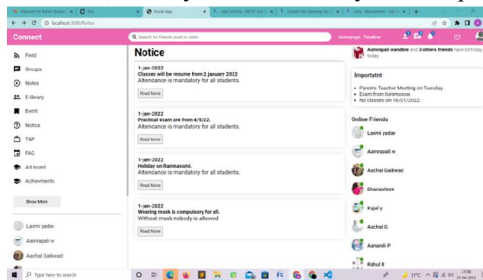
3.5 Training & Placement Page

On this page college can post the company details where student can apply for job, internship. Also college can post the training details .On this page student can apply for various companies suggested by college.



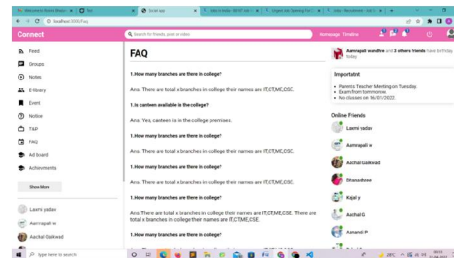
3.6 Notice

We have this additional feature that is must for students. On this notice page college can update to students and teachers about the important notice such as exam notice, holiday notice and many other important information.



3.7 FAQ

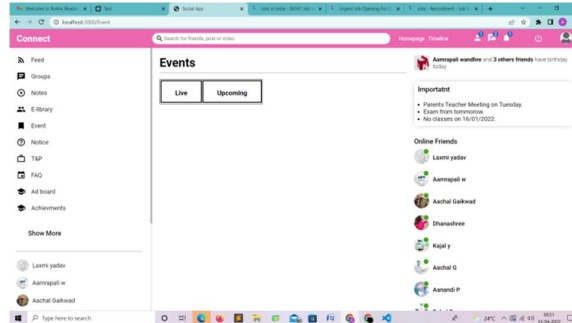
FAQ that is frequently asked questions. This page can help student to get their query solve about college or anything about college.





3.8 Event

On this page student can check the live and upcoming event to be held by college .Where there will be a option to participate in the event, share the event, eligibility to participate in the event.



3.9 Testing Table for Login

Test case id	Test case	Expected Output	Actual Output	Test case results
1	Valid username, valid password	Login success	Login success	Pass
2	Valid username, invalid password	Login failure	Login failure	Pass
3	Invalid username,	Login failure	Login failure	Pass
4	Invalid username, invalid password	Login failure	Login failure	Pass
5	Message Send	Send	Send	Pass
6	Posting on wall	Post	Post	Pass
7	Edit own details	Update	Update	Pass

IV. CONCLUSION

By creating this website for college, it is aimed to strengthen communication among users and make campus life more lively and exciting by combining academics and cultural activities. This social media platform will become an asset for the campus and can be used for various productive purposes.

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