

e-ISSN:2582-5208

International Research Journal of Modernization in Engineering Technology and Science Volume:03/Issue:06/June-2021 **Impact Factor- 5.354** www.irjmets.com

# SOCIO-FORMAL INTERACTIVE EDUCATIONAL PLATFORM (SIEP)

Himanshu Dhiman<sup>\*1</sup>, Rittik Pradhan<sup>\*2</sup>, Himanshu Yadav<sup>\*3</sup>, Kapil Kaushik<sup>\*4</sup>

## Mrs. Krista Chaudhary<sup>\*5</sup>

\*1,2,3,4 Student, Krishna Engineering College, Ghaziabad, India.

\*5Assistant Professor, Krishna Engineering College, Ghaziabad, India.

## ABSTRACT

The world has been making tremendous technological growth for the last few decades, but most educational institutions in India use the ancient paperwork methods to do most of the work. Currently students have no access to Teachers outside the institutions. For even small things like checking the marks of the previous tests, the students have to physically reach out to teachers and for various other purposes like checking the attendance student have to physically reach out to various teachers for respective subject as we currently don't have a centralized attendance system where overall attendance can be seen moreover online copies of notes are currently shared using apps like WhatsApp which ends up making a mess and it becomes extremely difficult to find those files or notes when needed the most and furthermore any other special activity/event organized in the institute remains confined to the mess of those WhatsApp group chat and no more than that which means the alerts for the activities are not properly received to the students and hence leading to the less participants in the activities and concluding to lowering the moral of activity organizers.

Keywords: Organizational Vision, Latest Activity Updates, Subject-Wise Channels, Profile View, Social Interacting And Doubt Clearing Channel.

#### I. **INTRODUCTION**

The world has been making exponential technological growth in recent times, but most educational institutions in India use the ancient paperwork methods to do most of the work. Students have no access to Teachers outside the institutions. For even trivial things like checking the marks of the previous test, the students have to physically reach out to teachers. The online copies of notes are currently shared using apps like WhatsApp which ends up making a mess and it becomes extremely difficult to find those files when needed the most.

So, we propose a Social Media Type platform implemented in a formal manner providing ease of access to students and help them learn interactively by allowing them to reach out to teachers, seniors and juniors alike : SIEP.

SIEP provides different channels for different subjects where anyone in the channel can share notes of that particular subject. The channels could also be made Class or Section wise which will help the teacher maintain Attendance and Marks of the students.

There would be sub-channels where anyone could discuss their doubts with every teacher related to that subject.

To make this app into a social platform there would be a news feed on the home page of posts which could be made by anyone. Information and photos about various events going on in the institute could be posted there.

#### II. **METHODOLOGY**

Messaging Apps like Telegram and LinkedIn are well known and very popular cross platform Messaging services. The key feature of both of these is Privacy, and to ensure this it employs end-to-end encryption which stops those outside a two-way conversation be it a company, hackers, or someone unauthorized from seeing what data has been sent.

#### 1. **Telegram**:

Telegram is a cross-platform multi platform Instant Messaging service founded by "Pavel Durov" a Russian entrepreneur for iOS in August 2013. Telegram is not a just another Messaging app. Although, It's core functionalities like messaging other Telegram users, create group chats, calls, and send files and stickers. is same as most other messaging apps. Telegram uses encryption in calls and it's "Secret chat" which doesn't means it is more secure and private than WhatsApp. Both services uses two factor authentication. According to



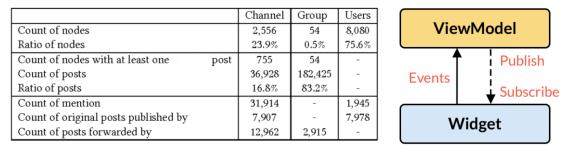
the FAQ page of Telegram, It is said that the company is funded by the Founder and CEO "Pavel Durov" and not through data sharing, collection and advertisements. In other words Telegram provides the Internet privacy as protecting your personal data from Third party access such as marketers, advertisers etc. Telegram offers excellent features like Self-destruct timers, Global message deletion, Large file size limit. Telegram is designed as a light app, reliable and fast. Telegram also provides bots which is an automatic answering account that can respond to specific text command by answering with preformatted text.

#### 2. LinkedIn :

Volume:03/Issue:06/June-2021

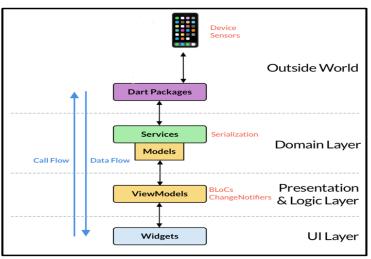
LinkedIn is an American business and employment-oriented online service that operates via websites and mobile apps. Launched on May 5, 2003, the platform is mainly used for professional networking, and allows job seekers to post their CVs and employers to post jobs. As of 2015, most of the company's revenue came from selling access to information about its members to recruiters and sales professionals. Since December 2016, it has been a wholly owned subsidiary of Microsoft. As of February 2021, LinkedIn had 740 million registered members from 150 countries.

LinkedIn allows members (both workers and employers) to create profiles and "connect" to each other in an online social network which may represent real-world professional relationships. Members can invite anyone (whether an existing member or not) to become a "connection".



#### III. **RESULTS AND DISCUSSION**

The Flow Chart below describes the development process that include all the phases in the software development life cycle. This chart illustrates very well how the project is carried out and how the development was managed. After the program is completed, the program still needs future maintenance to form it available and stable to execute. The program are going to be tested after a particular period of time and debug each of the function and possible bugs, whenever a possible bug is detected; the program may need to be refined to fix the bugs for better design. Meanwhile, there will be updates, enhancements and more add on to the database to increase the database capacity. This project's main focus is on privacy: messages shared between users should be encrypted to maintain privacy; Robustness: In case users device crashes, a backup of their chat history must be stored on remote database servers to enable recoverability and performance application must be light weighted.





e-ISSN:2582-5208

International Research Journal of Modernization in Engineering Technology and ScienceVolume:03/Issue:06/June-2021Impact Factor- 5.354www.irjmets.com

### **IV. CONCLUSION**

SIEP is a social media type platform implemented in a formal manner for providing ease of access to students and to help them learn interactively by allowing them to reach out to teachers, seniors and juniors alike SIEP also enables the students to easily access his/her academics records.

Using this system, we can manage all information of all aspects of a college, its students, faculties, Departments, marks and other curricular activities. SIEP system provides the easiest way to manage all functionalities of a college. This system facilitates institutes to maintain the functionality related to college employees and their students.

### V. REFERENCES

- [1] Firebase https://firebase.google.com/docs Firebase is a platform developed by Google for creating mobile and web applications. Firebase gives you the tools to develop high-quality apps, grow your user base, and earn more money. We cover the essentials so you can monetize your business and focus on your users.
- [2] Kumar, S., et al. Embedded end-to-end wireless security with ECDH key exchange. in Circuits and Systems, 2003 IEEE 46th Midwest Symposium on. 2003: IEEE.
- [3] Android https://developer.android.com/docs Android is a mobile operating system based on a modified version of the Linux kernel and other open source software, designed primarily for touchscreen mobile devices such as smartphones and tablets.
- [4] Dashtinejad, P., Security System for Mobile Messaging Applications. 2015Stack Overflow https://stackoverflow.com Stack Overflow is a question and answer site for professional and enthusiast programmers. It is a privately held website, the flagship site of the Stack Exchange Network, created in 2008 by Jeff Atwood and Joel Spolsky. It features questions and answers on a wide range of topics in computer programming.
- [5] Cortjens, D., Spruyt, A. & Wieringa., W. F. C., n.d. "WhatsApp Database Encryption Project, s.l.: s.n.
- [6] Thakur, N., 2013. Forensic Analysis of WhatsApp on Android Smartphones.. Master's thesis, University of New Orleans, , Volume 1706. [6] Barghuthi, N. A. & Said., H., 2013. Social Networks IM Forensics: Encryption Analysis.. Journal of Communications, 8(11).