



A Study for an Easy UI Based Communication Platform.

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Abstract

As compared to the technology that we are utilizing, the world is currently experiencing challenges while connecting via online platforms, raising the question of whether we are on the right track to connect to the future. We were striving to design a platform that employs a UI-based communication platform on a daily basis, and as a result, we designed an application called Sanchar. The communication platform requires a UID (unique identification) and password to connect with the server. In Sanchar we have a unique AI with advanced security levels and with an unseen concept of message refinement in the field of communication platform which allows users to communicate better.

UI is the most important aspect in creating any communication based application and the developer has to make sure that the user interface should be appropriate for every type of user regardless of their backgrounds and their working area.

Sanchar is developing a method that may be applied in any field and in any aspect, including industrial communication with clients or industrial internal communication, formal or informal communication.

Sanchar can be used to send files, documents, and photos, among other things.

User interface (UI) and Artificial intelligence (AI) are the two main aspects that are going to play a vital role in the upcoming generation where we will connect to the future.

Keywords:- Communication, Free-Ware Software, Refinement, Simplicity, AI, Technology, Industry

Introduction

Is the current world prepared to encounter the next communications technology? Sanchar is a next-generation communication platform featuring a simple and innovative user interface, as well as some previously unseen capabilities such as message refining and unbreachable login security measures.

In recent time during that covid-19 pandemic the world came to know that how important technologies is and how important the online communication platform is, the world needs a Strong, easy to use UI based online communication platform with advanced features that connects a user to the future.

While efforts are regularly done by some current present online communication platforms as they are upgrading their communication platforms with new features, the search shows that industries or the world needs a new and improvised online platform to communicate with all purposes including industrial communication, formal communication and informal communication.

Effective communication only takes place under environments which are lucent and not

controlled by factors such as industry regulation, written-scripts, rules, etc. This paper discusses the survey that the world requires a new and better communication technology and the survey concludes that they are ready to adopt a new system to communicate for industrial purposes as well as formal and informal communications.

Literature Review

Technology is the result of an increased knowledge and implementation of all industrial manufacturing methods, skills, and procedures, as well as ongoing scientific research. By gathering an input, altering it for the system's intended purpose through a process, and then giving an outcome that decides the system's final intended function, systems apply the intended function to the system's newly acquired interaction data that can later be used to upgrade or design new UI for the system in the future.

A user interface (UI) is an environment where user and machine have a common communication gateway to interact in the industrial design field of human and computer interaction. The purpose of this interaction is for the human to be able to control and operate the machine efficiently without having to have any prior understanding of how a computer system functions internally. The user interface is entirely dependent on how the developer and user interact with the interface, as well as how the user connects to it. User interfaces are a broad term that include interactive components of computer operating systems, manual components that require human supervision/intervention, industrial equipment operator operations, and process control.. Both software and hardware can be managed and controlled using the user interface, and controlling the user interface entails controlling all aspects of the software. Computers, mobile devices, automobile engineering, music players, airplanes, and ships all have user interfaces nowadays. The user interface is a component of software that allows users to interact with it. provides users with all of the information they need about the software. Users can manipulate the interface using cutting-edge technology and rearrange the systems to suit their needs. Human-computer interaction begins with the user interface (UI). UI was a startup that aimed to connect the human world to machines, and AI and human-machine interaction may usher in a new era of technology. Depending on the system design to integrate hardware and software, the user interface can be designed in various ways such as audio, video, graphical etc. Hardware, software, or both can be used to create the user interface (UI).

In the domain of information technology, user interface design refers to the entire process of construction an end user interface for the client involving multiple stages like research , designing , modeling, testing , user feedback etc. There are two types of UI categories namely graphical in which some kind of visual interaction is involved and secondly non-graphical which include audio as a means of interaction. User Interfaces using Voice (VUIs). Users use their voices to speak with them. VUIs, such as SIRI on Apple devices, GOOGLE ASSISTANT on Android devices, and CORTANA on laptops, are the most common smart assistants.

A communication platform is a software solution that enables you to send and receive internal communications using a range of communication techniques such as phone, videoconferencing, task management, and group messaging. Businesses use a communication

platform to offer secure staff intercommunication portals, easy texting and voice communication are just a few of the capabilities accessible on today's platforms, which is why the current communication platforms must be updated.

Objectives

- 1) To create a centralized instant messaging Indian application having an easy and unique UI.
- 2) To experiment with some new and unique features with some unbreachable login security measures.

Research methodology

We have collected some research samples from people regarding the project. Because the project is still underdevelopment and can only run on a particular system configured according to the software or having the required program. We have collected valuable inputs (such as changes, updates and features) from our batch-mates and teachers. We have provided a trial session for them to use the software through guidance

We also conducted a survey through Google form in a personalized manner where firstly they were informed about the project and then we conducted a survey that states:-

- 1) We conducted the survey from every age group

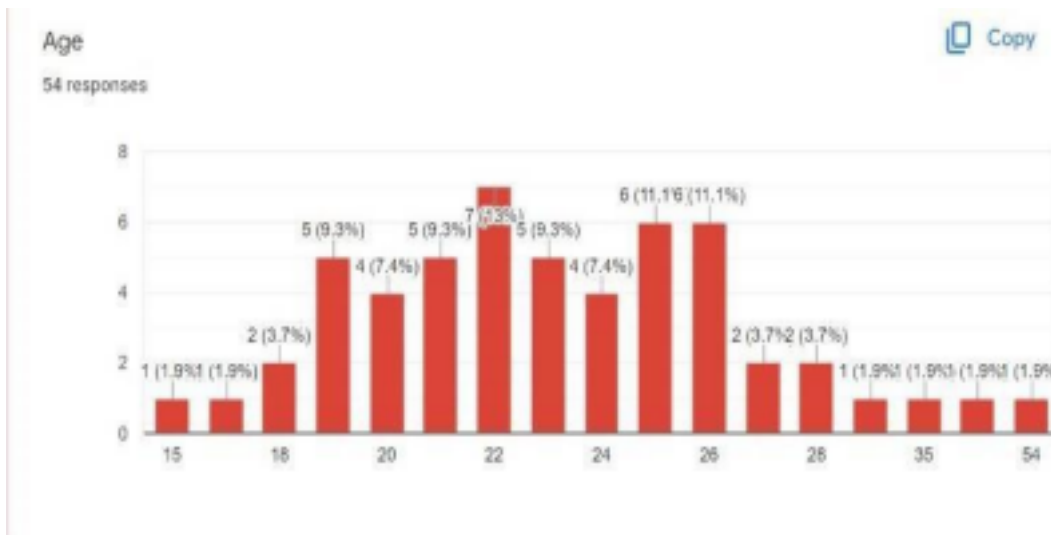


Fig.1 (List of users from each age group)

Most of them were working professionals

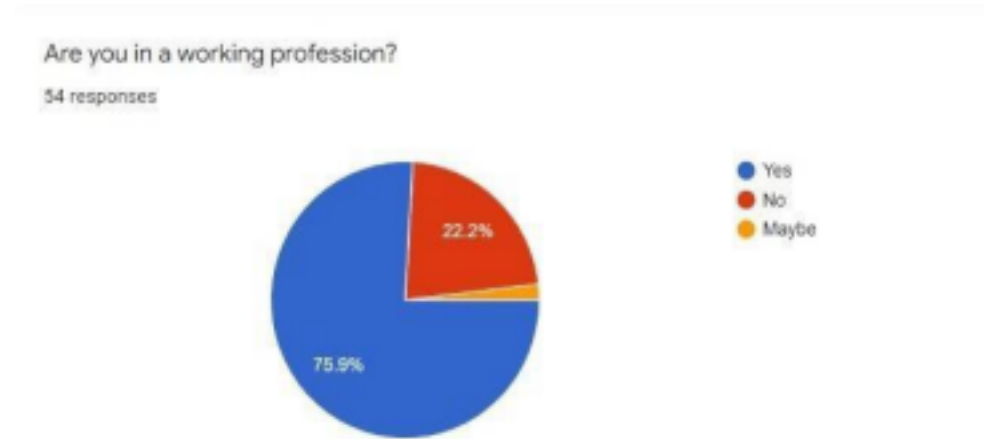


Fig.2 (List of users who are working professionals)

And 55.6% users want to shift the current communication platform with a new one and 24.1% users were not sure about which option to prefer with,

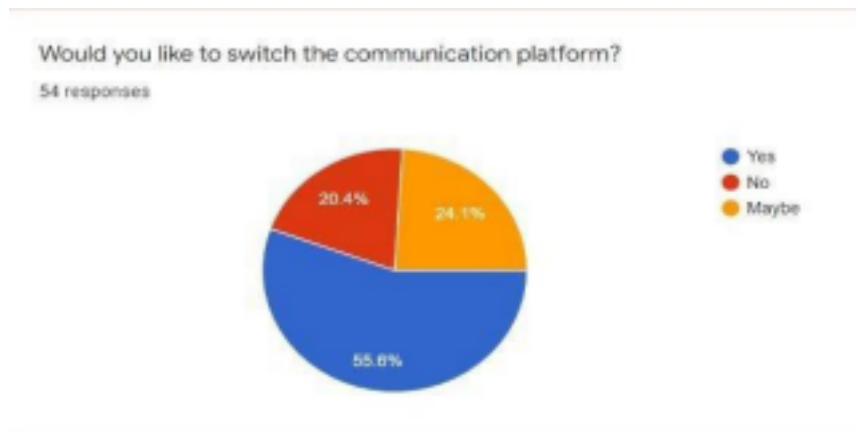


Fig.3 (List of users who wants to switch the communication platform)

Discussion

According to the study of this UI based communication system, the findings suggest that we can build a UI-based communication platform with some previously unseen and updated capabilities; the upcoming application "Sanchar" will address all of the issues that current generations confront when speaking with one another. It can also help to resolve miscommunication, which is common in particular places. This outcome should be considered while discussing any prospective communication platforms, as well as the establishment of an easy environment for connecting users to hardware. We understand that people do not want to switch platforms totally since they would lose their data, but for industrial purposes, people can move communication and adopt new technology on a conditional basis if they perceive something valuable in the software. Hence, we completely accept the fact that it has been introduced in the result and

conclusion that some people want to shift and some people don't want to shift (if the new technology is attractive or easy to use). Some screenshots of my project are as follows: -



Fig.4 (Image of the Sanchar homepage)

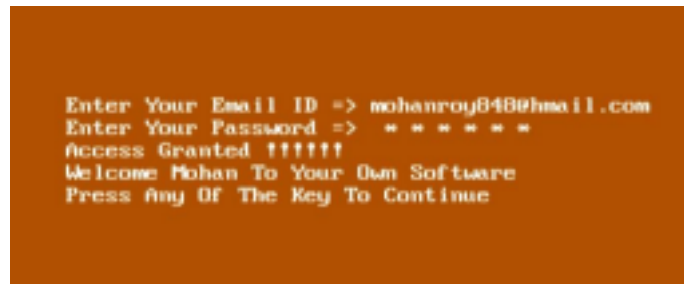


Fig. 5 (Login page of Sanchar API)

Conclusion

The findings show that industry and the world require a new and improvised communication technology with advanced features and a high level of security. The research concludes that the world requires a fresh, simple, and unique user interface that is easy to use in official communications, whether formal or informal, and is accessible to everyone. Whether "Sanchar" is an appropriate application for that or not, more study is needed.

Limitations and future scope

Because the survey was conducted in a personalized manner and the feedback session was conducted under guidance therefore the limitations of the project or study can be there but the observation suggests that the project "Sanchar" can connect the world to the future.

Sanchar is still in the development phase and requires some funding as well as access to cutting edge technology in order to connect the world to the future.

Reference

- [1] Elmangoush, A., Coskun, H., Wahle, S., & Magedanz, T. (2013, March). Design aspects for a reference M2M communication platform for Smart Cities. In 2013 9th International Conference on Innovations in Information Technology (IIT) (pp. 204-209). IEEE.
- [2] Marge, M., Nogar, S., Hayes, C. J., Lukin, S. M., Bloecker, J., Holder, E., & Voss, C. (2019). A research platform for multi-robot dialogue with humans. arXiv preprint arXiv:1910.05624.
- [3] Sener, T. E., Butticiè, S., Sahin, B., Netsch, C., Dragos, L., Pappalardo, R., & Magno, C. (2018). WhatsApp use in the evaluation of hematuria. *International Journal of Medical Informatics*, 111, 17-23
- [4] Mazzei, A. (2010). Promoting active communication behaviors through internal communication. *Corporate Communications: An International Journal*
- [5] Men, L. R. (2014). Why Leadership Matters to Internal Communication: Linking Transformational Leadership, Symmetrical Communication, and Employee Outcomes. *Journal of Public Relations Research*, 26(3), 256–279. doi:10.1080/1062726X.2014.908719