

Survey of Problems Faced by Remote Area Students in Online Learning Apps

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ABSTRACT

Intend of this survey study to find out difficulties of spreading online education in the rural part of India. In this, we studied the problems faced by the students in the village in an online application like Zoom, Google meet, team Link & Microsoft team. Rural students are facing a lot of difficulties in the online education system. With this in mind, we asked the students in the village about the difficulties they faced in getting online education. We created a questionnaire on Google Forms and sent those questionnaires to college students in the village. It was found that, the maximum student's used Zoom as well as Google meet application. Rural students do not have enough Internet data, network to get online education also there are no electronic devices like mobile, laptops etc.

Key words: - Learning Apps, Zoom, Google meet, Team link, Internet network, Rural.

I. INTRODUCTION

The Covid-19 pandemic has made digital learning an integral part of the educational landscape of India [1]. However, the spread of digital education has been hampered by the great divide between the haves and the have-nots. Many students are not provided with the high bandwidth or the strong internet connection that online courses require, and thus fail to catch up with their virtual classmates [2]: Their weak monitors make it hard to follow the Course Management System and their learning experience becomes problematic. Moreover, most of them live off campus and find it difficult to keep in tune with the technical requirements of the chosen course. Some of them don't even own computers and seek help in Learning Resource Centers for technical assistance. The only solution to this problem is knowing exactly what kind of technological support they will need for a certain course before enrolling in it, as well as properly equipping themselves for the course's successful completion. When it comes to Online Education or E-Learning, rural population is not completely equipped with utilities like fast internet, uninterrupted power supply and electronic devices [3]. There have been improvements regarding basic infrastructural facilities but many rural areas in India are still grappling with these challenges to make education completely digital or online. While we look at the domain of digital learning, it is imperative to consider the availability of the right devices to every student for accessing digital content. Not a lot of people in rural India have access to personal laptops or computers, and phone screens are not conducive to long learning hours. Also, data packs and their costs can be a big deterrent both for teachers as

well as learners, especially for live classes. Many students either don't have personal laptops/smartphones or they are available for a limited time. Hence, the learning remains restricted with the limited availability of technological devices .e- online applications for academic purposes are called online learning app. Such applications make use of an internet connection. An Online learning app can be accessed from a smartphone. It is a technology-based study tool that enables information sharing. It is commonly known as mobile apps for learning [4]. The purpose of this survey is to actual problem faced by student during the use of online meeting application.

II. MATERIAL &METHOD

Google forms are widely used to create surveys easily and quickly since they allow you to plan events, ask questions to your employees or clients and collect diverse type of information in a simple and efficient way. Google forms allow us to include different types of questions such as short answers, paragraphs, multiple selection, verification boxes, pull-down, linear scale, grid of several options, among others.

- It is a free online tool, that allows you to collect information easily and efficiently.
- With Google forms you can create surveys in few minutes to ask your clients or collaborators information about your products or service.
- To start using this tool, you only need a Google account, the same one you need to access Gmail, YouTube or Google Drive.
- The interface is very easy to use. Any user with an average Internet knowledge can create forms using this tool.
- The assistant is simple to use. The What-You-See-Is-What-You-Get interface makes it easy to drag and drop form elements and organize them based on actions or events.
- At the design level it is possible to choose between a palette of colours, as well as own images as a background.
- Google forms stores the feedback received so we can analyze it in detail.
- The forms are integrated with Google spreadsheets therefore we can access to a spreadsheet view of the collected data.
- The general configuration of forms or surveys allows you to collect the recipient's email address and limit the answers.
- For advanced users, the type of data that can be inserted into a field can be customized using regular expressions. This helps customize the form even more.
- Google forms allows us to see how the survey will look before sending it over to the recipients.
- We can send the form by email, integrate it into our website or send the link via social networks or any other means.
- With this tool, you can get unlimited questions and answers at no cost, while other survey tools require a payment depending on the number of questions and recipients.

Google forms can facilitate the contact with your customers or with your organization members and it is very helpful to gather information that might allow you to have a greater control of your company production and distribution processes. It can also help you to see and analyze your workers' performance.

III. RESULT & DISCUSSION

We collected information by using Google form of undergraduate & post graduate students from remote area of Maharashtra. We collected it in the form of questions about problems faced by students during online learning on various online learning meeting applications. Following are the questions had been asked in Google form.

Class:-

287 responses

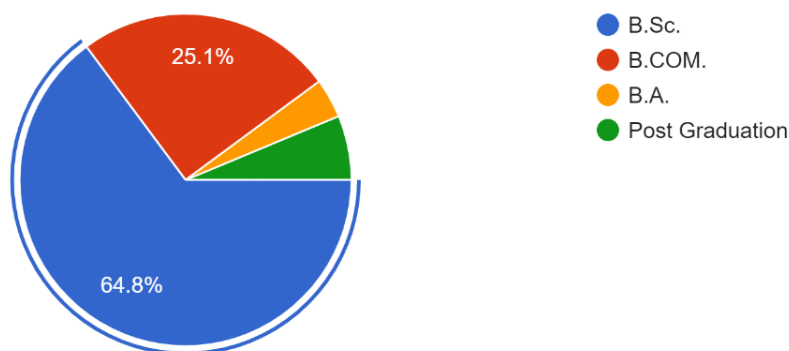


Fig.(1) Student stream wise responses

From fig(1) We got 287 responses from students of different villages in Maharashtra. It has 64.8 per cent response given by B.Sc students, 25.1% responses by B.Com, 10.1% responses by B.A. and Post Graduate students.

Q-1 Which online app have you used for online Learning.

287 responses

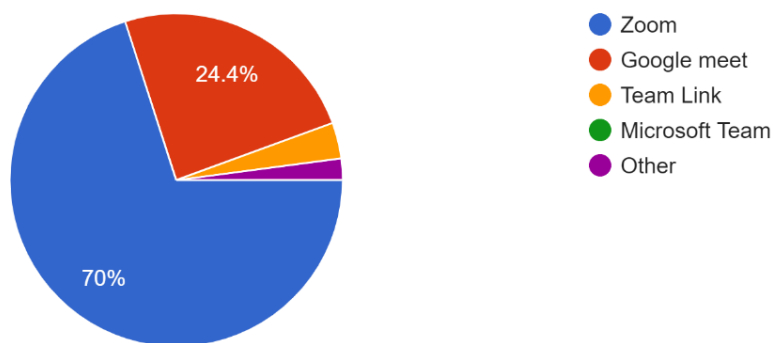


Fig. (2) % of online app. Used by Students.

From Fig (2) shows the percentage of online used by student from remote area. 70% student had used Zoom App, 24.4% Student used Google meet, 5.6% students used Microsoft team and other app.

Q-2 How was experience About the app.

287 responses

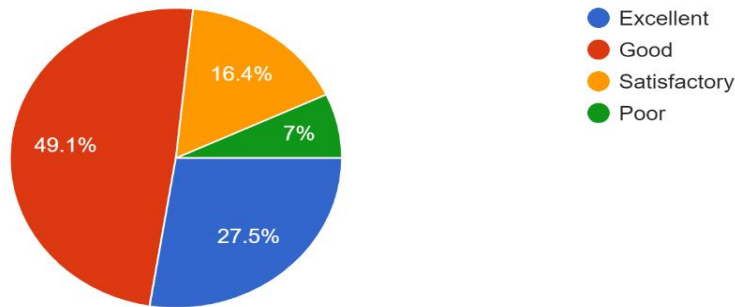


Fig.(3) Experience share by student about the app.

From fig(3) 49.1% of the students have good experience about the app. ,27.5% Student excellent experience , 16.4% Satisfactory, 7% poor.

Q-3 How was the experience about the Video clarity of the app.

287 responses

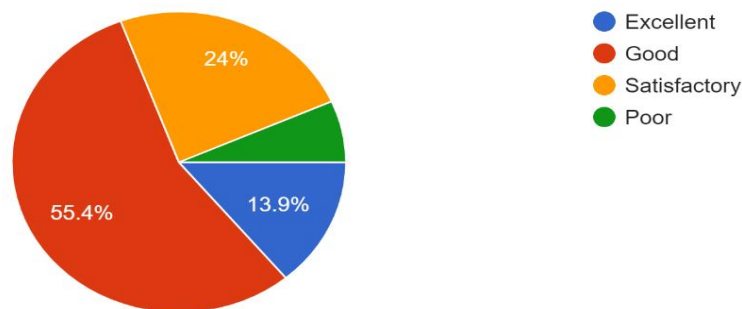


Fig. (4) Experience share by student about clarity

From fig(4) 55.4% of the students have good experience about the video clarity of app. ,13.9% Student excellent experience , 24% Satisfactory, 6.7 % poor.

Q-4 How was the experience about the Audio clarity of the app.

287 responses

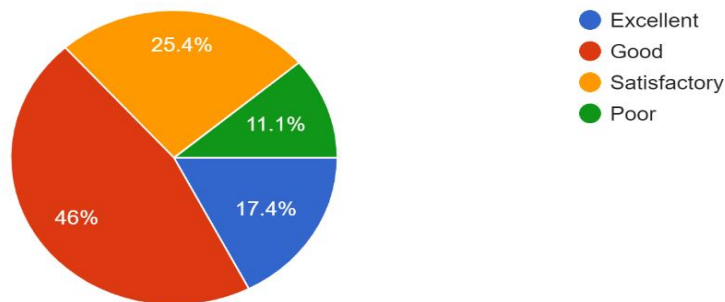


Fig. (5) Experience share by student about audio clarity.

From fig.(5) 46% of the students have good experience about the audio clarity of app. ,17.4% Student excellent experience , 25.4% Satisfactory, 11.1 % poor.

Q-6 Internet Data consumption of the app.

287 responses

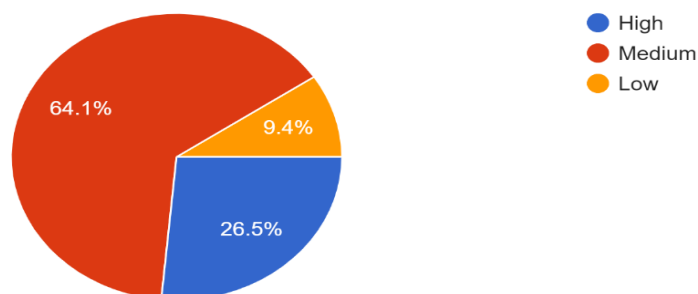


Fig (6) Internet data consumption.

From fig(7) 26.5 % of student says that internet data consumption is High, 64.1% of students says that the data consumption is medium, 9.4% of student says that the data consumption is low.

Q-6 Does this app easily accessible.

287 responses

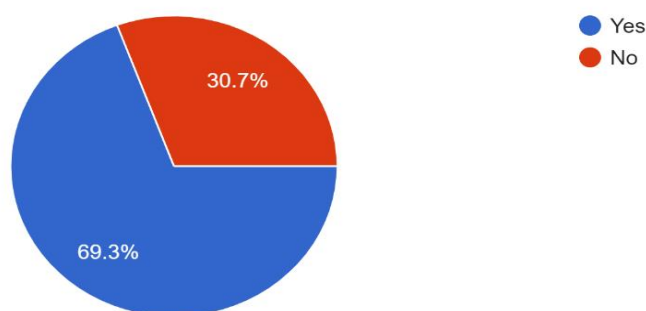


Fig (7) about accessibility

From fig. (7) 69.3% says it was easily accessible and 30.7% says it does not easily accessible.

Q-7 Overall Experience about the app.

287 responses

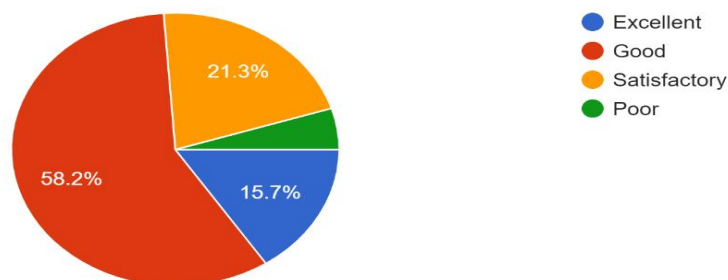


Fig (8) Overall experience about the app.

From fig (8) 58.2 % of the students had Good experience,21.3% satisfactory,15.7% Excellent and remaining Poor experience.

We asked the students for their opinion on whether online education is good or offline, Here is the answer to the question whether online education is good or offline education is good.The Opinion of the students more and more students want offline education because the most of the students faced problem about network, insufficient mobile/computer/laptop devices.

IV. CONCLUSION

From collected data & their analysis, it observed that Maximum students from the rural area used Zoom as well as Google meet application.It was observed that most of the students in the villages had problems due to network problems and lack of electronic equipment. still there is no proper meeting application working at low mbps/kbps network for remote area. From this it can be concluded that an app running on a low network should be developed for rural students.

V. REFERENCES

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