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## ADVANTAGES AND DISADVANTAGES OF DISTANCE COMMUNICATION SOFTWARE

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It's no secret that the world is shrouded in a terrible pandemic. In this regard, the quarantine regime was introduced everywhere, which affected the format of studying in all educational institutions. Distance learning has become an inherent aspect of the student today. But here, in Ukraine, opinions differ regarding distance learning. Some believe that this is the best thing that happened to the education system of all time, for others it only brings inconvenience.

In Kiev, a group of journalists conducted a survey among students regarding their attitude to distance learning. About 64.5% of capital students are happy with this regime and they consider the lack of live communication with participants in the educational process as a disadvantage. In this regard, students are less motivated to study further and self-discipline worsens [1].

We'd like to say that the issue of distance learning had interested us very much, so that's why we want to go through the list of programs used by students in Ukraine in order to choose the best communication software for distance learning.

ZOOM advantages are: it is one of the most popular apps for studying in Ukraine, because it's plain and cozy; host can control every person, adjusting their volume and video. Free version's conference can't be longer than 40 minutes. ZOOM disadvantages are: free version's conference can't be longer than 40 minutes. It means that teacher needs to restart a conference 2-3 times per lecture; secure system is weak and this is not the first time you can hear that some trolls screwed up someone's conference; moreover, students can't adjust other members, which could be loud. This function available only for the host, it can bring inconvenience.

GOOGLE MEET advantages are: Google provides browser's communication service and it means you don't need to install it on your PC or phone; one-click connecting; this system provides secured connection; real-time subtitles powered by Google speech recognition technology; unlimited meetings. GOOGLE MEET disadvantage is: there is no microphone and video fine-tuning tools [3].

ADOBE CONNECT advantages are: you don't need to install it; it is possible to play multimedia files, flash animation, mp3 and many others. It means as files in 100% quality, unlike other services, where the broadcast information transmits through a microphone or screen directly by the teacher, which significantly spoils the quality. ADOBE CONNECT disadvantages are: many functions that will surely be difficult to understand for both the teacher and students; inconvenient interface, especially on mobile devices [2].

DISCORD advantages are: it's handy and cozy for young people, initially for gamers, but now it's focused on distance learning too; it is one of the most stable and secured app for communication now. It counts a big number of difficult algorithms which protect us from hackers or trolls. DISCORD

disadvantage is: you can't capture your video call using built-in tools. You need to use third party screen recorders.

From this we can conclude that the best online-platform for up-to-date young teachers is DISCORD. For elder lectures, it would be easier to use GOOGLE MEET service. And for those, who prefer functionality to simplicity, we propose to work with ADOBE CONNECT.

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## ANALYSIS OF ALTERNATIVE ENERGY SOURCES

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In Ukraine, the so-called alternative energy sources have been actively used for the last 5-10 years. Nowadays, several types of energy production from renewable sources are used: Solar power plant (SPP), wind power plant (WPP), hydroelectric power plant (HPP). Providing the country with natural resources is the most important economic and political factor in the development of the national economy. The second factor, and perhaps the first in importance, is the impact on the ecology of the planet. Greenhouse gas emissions from burning minerals disrupt the climate balance. The impacts of climate change have become more tangible over the past decade. The only way for people to reduce the rate of climate change is to switch to more environmentally friendly energy sources, including renewable or alternative ones: sun, wind, water, biogas.

To solve the problem of fossil fuel shortages, researchers around the world have been working to create and implement alternative energy sources. It is only recently, that algae began to be considered an alternative source of energy, but the technology according to experts is very promising: from 1 hectare of water surface occupied by algae 150 thousand cubic meters of biogas could be produced per year. This is approximately equal to the volume of gas produced by a small well, and this is enough for the life of a small village. In order to preserve ecology, new methods of rational use of natural resources should be introduced. What are the benefits of using natural resources? Firstly, the risk of the temperature increase in the atmosphere is reduced by almost 50%. Secondly, the emission of toxic gases, thick smoke is reduced to a minimum, and thirdly, the cost of using natural resources is much lower than the cost of oil, gas, etc.

The advantages of alternative energy have already been assessed by China, the USA, Germany, Italy, Spain, Japan, India, and Nordic countries. They account for about 75% of the world capacity. In some countries, the cost of generating electricity from solar energy has already reached the level of retail electricity prices in the residential, commercial and industrial market segments. Therefore, alternative energy can already be profitable without any additional support. Until now, renewable energy sources do not occupy a significant market share in Ukraine, but their development prospects are doubtless. The share of renewable energy sources has almost doubled since the beginning of the