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CLOUD COMPUTING IN STUDYING

The article deals with cloud technologies, the ease of work thanks to such services. Sitting at home, you do not lose your job, study, favourite activity. You use cloud environments and have an opportunity to do all things remotely. The field of education is no exception. There are many different platforms designed to work remotely.

Key words: *cloud computing, cloud technologies, Zoom, Google forms, Moodle.*

У даній статті йдеться про хмарні технології, про полегшення роботи завдяки таким сервісам. Сидячи вдома, ти не лишаєшся без роботи, навчання, улюбленої справи. Ти використовуєш хмарні середовища та маєш змогу виконувати всі справи дистанційно. Далеко не виняток сфера навчання. Існує багато різних платформ, створених для роботи дистанційно.

Ключові слова: *хмарні середовища, хмарні технології, Zoom, Google форми, платформа Moodle.*

Cloud services are tools for solving certain pedagogical tasks. And they should be treated just like tools. It makes no sense to try using all the variety of available services to perform similar tasks. It will be much more effective to choose one that is most convenient and reliable, and to fully master its capabilities [2].

Cloud technologies are a fairly new phenomenon on the Internet in general and in education in particular. Cloud technologies are based on the concept of Web 2.0, which provides users with the ability to independently create and edit content. One of the first and most successful Web 2.0 projects is Wikipedia, created in 2001. Any user can add and edit articles. In this case, all the content created and downloaded by users is stored not on their computers, but on the server of the developer [4].

The introduction of cloud technologies in education is characterized by three key points:

1. Content creation by the user – a teacher, a student, a pupil.
2. Saving user-created materials on a remote server, making them permanently available for viewing and editing on the Internet.
3. Differentiation of access rights: the owner of the content can indicate who has the right to view and change the materials created or downloaded by him [5].

The leaders in the provision of cloud services for education are Google and Microsoft, which offer schools free cloud services G Suite for Education, discussed above, and Microsoft Office 365 [1].

The list of the most necessary and most useful cloud services which should be mastered first of all is presented below.

1. Google Drive is needed to store materials online. These can be documents, abstracts, presentations, textbooks, developments, any materials that you want to keep for yourself and which you may want to share with others. You can place study materials, lesson plans, and presentations on Google Drive.

2. YouTube is a world-famous video site for hosting videos. Most users associate YouTube with entertainment videos, but statistics shows that educational videos and channels have the highest number of views. This service allows you to create your own collections of educational videos. Teachers shoot and post their own videos on YouTube.

3. Blogger – a service for creating and maintaining personal blogs. The blog is used to publish news that is displayed in chronological order by date added. Previously, blogs were created to share their thoughts with the audience on certain issues. Now specialized thematic blogs have become widespread. They post articles from a certain direction. The opportunity to leave comments did not go anywhere, but people go to them not so much for the sake of conversations, but for professionally presented information, for knowledge.

4. Google Forms is a cloud service designed to receive feedback. You can use it to create online surveys, tests, online quizzes, web quests, etc. A significant advantage of these services is the automatic verification of results.

5. Google Sites – professional sites that do not require programming knowledge to create. There is a very handy visual editor that allows you to add text, images and videos, as well as objects stored on Google Drive. With Google Sites, students can present their projects, and teachers can create their own e-textbooks, classroom sites, schools, etc. [3].

6. Zoom is a cloud-based video conferencing service you can use to virtually meet with others – either by video or audio-only or both, all while conducting live chats. And it lets you record those sessions to view later. Over half of Fortune 500 companies reportedly used Zoom in 2019 and during 2020 has hit even greater heights, recently claiming 300 million daily Zoom meeting participants.

7. Moodle is a software / site designed for educational process. It is usually used in the educational process of universities. Study the lesson, have access to educational material of a subject, download the work done, chat with the teacher – all these can be done through Moodle.

Therefore, with the help of cloud technologies, you can perform a large number of basic operations. However, almost every of these services offers to install a specialized client for your system, which will speed up the work with the cloud.

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