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QR CODE INNOVATIVE CODE TOOLS IN EDUCATION AND COMMUNICATION

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Distance learning materials attractive, motivating and technologically enhanced learning materials. The QR codes on of these innovations. For most people who actively use their smartphone not only for calls, they know what the QR code on the phone is. After all, it is quite difficult to write links manually during mobile surfing. Having good cameras would seem to solve the input problem. But, unfortunately, the processing power is not always enough for confident text recognition. Nevertheless, such a technology for reading information using the phone’s camera exists. The QR code originated as a special solution for production and logistics, confidently making its way into our daily lives.

The rapid spread of mobile Internet and portable devices has opened up a large number of opportunities to the world. At this stage, such an educational trend as Mobile Learning is actively developing. Practice has shown that mobile devices and apps are easily integrated into the learning process and make it more effective [1]. There is no doubt that the student of the XXI century is progressive and has access to any information from world sources through their gadgets [4]. In this article, we will discuss opportunities for using QR codes in the modern educational process. A QR code (from the English Quick Response – quick response) is a miniature data carrier that stores text information of about three thousand bytes. This data is encoded using special programs or services in the form of black-and-white or colored squares.

QR codes (Quick Response) are basically an updated version of barcodes that can contain more information and be used in different cases. QR codes can be scanned by smartphones to reveal the information they encode. In this way, the information is transmitted accurately and easily to each student. According to the survey, 56.5% of students use their mobile phone in class for educational purposes for e-mail, the remaining percent of students for a calculator, voice recorder, schedule, etc. With these statistics in hand, it is possible to note the fact that students learn better through interactive digital attempts.

The following survey showed that a large number of students believe that the use of personal devices has improved their ability to learn and remember information. Fifty-two percent of respondents use their phones for social media (YouTube, whatsapp, Twitter); and 48 percent use them to access a digital textbook over the Internet. On the other hand, they also use mobile phones for photographing slides and lectures, for intellectual quizzes.

Now many books have barcodes that you can scan and find out information about the author. Schools can also use QR codes in libraries to provide better management. QR codes can also be used to share book reviews, Google forms that allow students to enter their reviews as well. Through the survey, you can find out that many students use QR codes in the library.

Whenever a teacher assigns a project to students, sharing online resources can be an obstacle. Instead, the teacher could download the links to the resources, encode them into a QR code, and share it among the students. The teacher could encourage students to use QR codes, as well as to present the project using text or audio. The distribution of response keys after the unit test can also be simplified by using QR codes. Art classes and other extracurricular activities could make learning much more enjoyable with QR codes. If students have a specific project for one day, it can be embedded in the QR code and given to the students. Digital project galleries can be downloaded and embedded in a QR code to check the student's progress. QR codes on flyers and posters dedicated to the event, where students can scan and save the event on their phone, or in classroom voting, where the QR code leads to a Google form where they can vote and send information, are just a few use cases. Additional use cases include QR codes to help students with homework, where if a question arises, they can simply scan the QR code to get materials related to the day's lesson. Science-related activities can be made more interactive and fun by using QR codes on bottle samples and scientific models. If a school or university has an open area that can be converted into a botanical garden, then each plant species can have a small QR code marked to display information about specific species when scanned.

A wide range of materials, such as audio, text, PDF, website links, and so on, can be embedded in the QR code. Ranging from sharing project materials with students, digital slide shows, library use, and many other versatile uses, QR codes can function as a great option for interactive education.

But there are also disadvantages, rather they are a common disadvantage. When you scan the QR code with your mobile device, the app uses the phone's rear camera. If the rear camera is of poor quality, the QR code will not be scanned correctly. Since QR codes are a matrix of small squares, a relatively high-quality camera is required to ensure accuracy. QR codes are not intended to be "viewed" on the device. You only have to "scan" it with the device.

To sum up, quick response codes are barcodes that can contain almost any type of data : plain text, links, multimedia files, etc. All you need is a QR code scanning app. The app works via a mobile phone. Mobile learning anywhere, anytime, supported by mobile devices used by students to access content. The devices that provide mobile learning are the same gadgets that we all have in our pockets: smartphones and tablets. We use them in so many ways that they have become extensions of our personalities; it is only natural that we have started using them for training as well. With mLearning, students can learn assigned lessons, video lectures, and take tests directly from their devices.

The QR code also contains additional data that is required for the correct decoding of information by special programs on mobile devices. This code fully meets modern requirements for receiving and distributing information, making this process convenient, fast and interactive. Currently, any smartphone or tablet can easily recognize and decipher information from the QR code. To do this, you need to bring the camera of a mobile device with the QR code recognition program installed to the image of the code. Program it will perform decryption, and then offer to perform a specific action provided by the code content. The most common data formats are:

- web addresses: reading the code directs the user to the desired Internet resource, eliminating the need to enter many characters in the browser's address bar;
- contact information: you can scan the code and save the contact information in the address book of your phone or computer;
- e-mail address: the QR code may contain the email address and name of the recipient;
- SMS: by scanning the QR code, the user can receive a ready-to-send message;
- cartographic information: a QR code may be encrypted geographic data that allows you to see the location of an object in such services as Google Maps, 2GIS, Yandex.Cards;
- phone numbers: when scanning a QR code with an embedded phone number, you can immediately make a call;
- text that can serve as an informational reference on a specific topic.

In one form or another, students work with information on a daily basis. They search, process, accumulate, transmit information, transfer it from one form to another, and so on. The use of services for various types of information processing, firstly, can help teachers, both in regular and extracurricular activities; secondly, it will attract the attention of schoolchildren and students, to their greater interest in comparison with traditional forms of education and training. This will increase their motivation. Let's consider the possibility of using the QR-code system in the educational process as a means of increasing students' motivation [2]:

1. QR codes can contain links to multimedia sources and resources that help you solve a specific educational task. After printing out the codes, you can paste them into students' workbooks and notebooks.

2. When organizing project activities, you can use QR codes to present collections of links, information blocks, comments, and then publish them on project support pages and posters.

3. QR codes containing links to Internet resources can be placed on the information stands of classrooms and laboratories as a video or multimedia commentary to the educational material. This will significantly enrich the information saturation of the audience stands.

4. Control and test material for training sessions, made in the form of cards with various options for tasks, can be presented in the form of QR codes.

5. During training sessions, you can conduct online surveys of students using mobile devices, without using voting systems, using the network service Mentimeter [3].

6. One of the ways to individualize learning can be the issuance of homework encrypted in QR codes-this will reduce the likelihood of cheating and increase the interest of students.

7. You can attract students' Interest and attention during various games and events, including extracurricular activities, when at one of the stages the task will be offered in the form of a QR code, after reading which you can complete the task.

8. QR codes can be placed on paper and electronic business cards, badges of participants of various events, conferences, meetings.

In the modern world, almost everyone has cell phones (students, teachers, parents, etc.), which makes it possible to widely use the capabilities of these technologies in practice. Since QR codes have not been licensed, everyone can not only use them, but also create them completely free of charge. There are many services and programs available for creating and promoting QR codes.

The possibilities of using QR codes are endless. But, like all technologies, QR codes are likely to be replaced in the future by other equally fun and interesting "quirks". However, they are now popular, so you need to take advantage of their popularity in your educational activities.

Promotional material. Bookmarks, business cards, flyers, and posters are just a few places where you can place QR codes. To use images of various codes on the Internet, drawing on business cards, t-shirts, advertising signs, posters and more. These codes can link to your site, project, community, event plan calendar, electronic databases, or other important resources. QR codes can be placed on information stands with information such as video or multimedia comments (in the form of links) to an ad, announcement, or other material. This will significantly enrich the information saturation of standard information stands not only in the library, but also in the study room.

Presentation materials. QR codes can be placed on business cards (paper or electronic), on badges of participants of various events, conferences, meetings, etc. When showing slides or videos of a presentation, you can provide listeners with handouts with QR codes to access the transcript of the presentation or additional materials on the site. You can also place QR codes on the presentation slide itself. Users will be able to scan them from the screen.

Excursion. When working out tourist trails and sightseeing routes as a source of information for visitors. To help you get comfortable in the room and navigate the location of its objects, you can specify QR codes with explanations on the map diagram of the room or place QR codes in various

places directly in the room. You can use photos with QR codes to link to web pages that indicate the location of objects, inform about the work schedule, and so on.

Connection book. Use QR codes on book covers to provide access to book annotations, reference materials about the author, or additional information about the book. To do this, you can use color coding of QR codes. For example, a blue QR code can be used for a link to find similar books on the web pages of a website, blog, or to search through a catalog. Similarly, you can make QR codes as an addition to separate sections of the textbook paragraphs.

Online reading. QR codes can be used to link to online content, provide access to an electronic library, and enable online reading of e-books or magazines. For example, create a handout with links to poems and stories dedicated to certain holidays.

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USING NEW METHODS IN ENGLISH LESSONS

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Today, it is important to equip the education system with innovative technologies and master the international requirements of Education. After all, this is the basis for providing high-quality education to the younger generation. In a time of rapid development of Science and technology, increasing the flow of information, the formation of mental abilities, the development of human abilities and talents is the main requirement of the time.

In the president’s address: “the competitiveness of the nation is determined primarily by the level of education”, the concept of increasing the value of the individual, increasing the responsibility of the teacher who prepares it, tireless work, quality results is twinned. Today, innovations of various nature and directions are being introduced in the field of Education.

New types of pedagogical technologies are being massively introduced into the educational process.

The acquisition of new pedagogical Technologies has a beneficial effect on the formation of a teacher’s attention-intellectual, professional, moral, spiritual, civic and many other pedagogical abilities, contributes to self-development and systematic organization of the educational process. New approaches to the educational process the first condition for the introduction of pedagogical Technologies is the formation of innovative activities of teachers [1].