USING THE USEFUL ASPECTS OF THE MOODLE SYSTEM AND ITS POSSIBILITIES

Akhmedova Zulhumor Ikromovna

Asian International University
Teacher of "General technical sciences" department
akhmedovazulkhumor85@gmail.com

Introduction

As a result of the transition of the higher education system of our country to the credit-module system, great changes have been made in this system. Decree No. PF-5953 dated March 2, 2020 of the Cabinet of Ministers of the Republic of Uzbekistan on measures to improve the system related to the organization of the educational process in higher education institutions "2020/2021 academic year It is said that the procedure for gradually transferring the educational process to the credit-module system should be introduced in higher educational institutions of the republic starting from 2016. In this system, the percentage of hours allocated to independent work of students has been increased.

Based on this, in order to improve the quality of the educational system in higher education institutions, it is necessary to create and use modern information and communication technologies along with traditional teaching tools. To solve this problem, it will be necessary to develop software tools intended for teaching, including electronic teaching-methodical complexes.

This dissertation work is dedicated to the creation of a mobile application platform for the monitoring of educational centers of the Republic. The mobile application platform is considered a type of methodological support of the non-governmental educational process, which includes all components of the organization of non-governmental educational process activities.

Programming environments for creating mobile applications on the Android operating system.

Nowadays, it is difficult to imagine the life of a modern person without a mobile phone. In addition to the main function, phones play an important role in everyday work: they help, read e-mails, read e-mails, print using a network printer. In this regard, an independent segment appeared on the market - mobile applications.

Today, the Android operating system is the most widely used in the field of mobile devices. Android has grown in popularity thanks to its open source code and Google Policy, which allows mobile device manufacturers to use the android platform for free for their products. Android is used because major mobile devices like Samsung, HTC, Sony, Huawei are used.

Android Studio is an integrated production environment (ISE) for working with the Android platform published by Google.

Initially, Google expanded to provide Android versions of the famous robots, but refused to have this idea due to copyright issues. Each version of the system, starting with version 1.5, gets its own code on the theme of sweets. Code symbols are determined in alphabetical order of the Latin alphabet.

Android allows any action to be performed in the background, supports two-dimensional and three-dimensional graphics, provides a wide library of user interface elements for file system and database access.

The architecture of the Android system consists of the following levels:

1) Linux operating system kernel;

2) libraries and execution system;

3) the ability to access the programming interface (programming interface) of the application framework level producer API;

4) The application level is a set of standard programs;

One of the most important tools for mobile application development is the Android SDK, which includes the tools needed to create, build, and assemble a mobile application.

Nowadays, software creation is often done using a development environment (IDE). Simplifying the beginner developer, it automates the build and run process and the beginner developer with less effort to build for the first time.

There are two mainly popular recommended development environments, Google's ADT and Android Studio:

Android Hema is a mobile application development environment for the Android operating system, based on the Equipse development environment.

Android Studio is a mobile application development environment for the Android operating system based on the England Idea development environment. ADRID environment, Android Studio Android Studio is available - Built-in tools for creating and removing mobile applications.

Google Cloud Platform is a cloud platform. At this time, Google will stop supporting tools that develop in the Android environment of the Android operating system.

Advantages of Android Studio:

1) Convenient design;

2) Convenient constructors that allow you to view the screen display on any device, TVs and clocks. The interface elements look correct for the specific version of the operating system you are looking at;

3) Built-in SDK development method (software development skills), issues a notification with the necessary API installation to start the old project;

4) Convenient structure of the project;

5) availability of logs for errors, processes and flows;

6) availability of a sufficient amount of literature in the Russian language.

Beginner developers who are just starting to learn software will find it very difficult to work on this system, because it means that there are some skills and experience in programming and software development. Nevertheless, the Android Studio programming environment is developing rapidly, and developers working with this system are in great demand.

Android Studio is a comprehensive software environment created by Google Corporation. Since it is adapted to the development of applications on Android, it is positively different from analogues. The program provides an opportunity to conduct various types of tests and diagnostics. Thus, Android Studio contains tools for checking the compatibility of programs written with different versions of the mobile operating system and different platforms. Studio Arsenal has tools for designing mobile apps and quickly previewing patched changes.

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