



OPPORTUNITIES OF USING MOBILE APPLICATIONS IN PROFESSIONAL ACTIVITIES

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ABSTRACT

This article is devoted to the development of testing methods that allow to diagnose the psychological predisposition of students to religious and scientific views. The aim of the work is to develop a convenient and effective software tool that allows you to determine and psycho-diagnose the predisposition of young people, especially students, to follow various misguided religious movements

Keywords: *engineering psychology, psychological testing, psychological diagnostics, virtual portrait, virtual psychologist, psychological prevention and technical logic.*

INTRODUCTION

There is no doubt that to organize the monitoring of mastery of student knowledge through a computer system, it is impossible to diagnose the quality of teaching in a modern education system, that is, to effectively manage the process and achieve a specific goal in education without diagnosing its condition. It is possible to determine the final knowledge and skills of students based on various criteria and approaches in the educational process, to check the validity of their compliance with didactic requirements as a result of the use of information technology in these processes. [1]

In it, pedagogical diagnosis includes determining the level of formation of knowledge, skills, and abilities of students, monitoring, evaluation, analysis of collected and statistical data, as well as predicting the future development of this process.

LITERATURE REVIEW

The strategy we used to create the search strings was as follows [4]: • Finding papers about engineering in education sector. Listing keywords mentioned in primary studies which we knew about. Use synonyms word (usage) and sub subjects of cloud computing in education such as (E-learning, management systems in education). Use the Boolean OR to incorporate alternative spellings and synonyms. Use the Boolean AND to link the major terms from population, intervention, and outcome. The complete search string initially used for the searching of the literature was as follows: psychological diagnostics AND psychological prevention and technical logic. It has been highlighted in [5] that there are two main issues on conducting an SLR search which are the sensitivity and specificity of the search. In our preliminary search, when we used the complete search string defined above we retrieved a very high number of articles. For instance, Google scholar, Scopus, ProQuest education, IEEEExplore, Science Direct, Springer Link retrieved more than two hundred results. Therefore, we have deepened our search and used this search string: (Adoption OR Usage) AND (engineering

psychology OR — psychological testing) AND (virtual portrait, OR virtual psychologist). The revised search string has given us a reasonable number of studies and we finally selected relevant empirical studies

METHODOLOGY

Diagnostic tests in the educational process are important in that they help to some extent choose an effective methodology. When managing knowledge, its prognostic function serves to obtain information about the educational process, about its future, that is, about a situation that may be known in advance. [2]

At each stage of the learning process, it is possible to verify the prediction that the specific knowledge, skills and abilities intended for a particular piece of learning material are sufficiently formed or not formed. The results obtained from certain scientific predictions are used to create a model of students' future activities. Such a prediction is a great help in drawing clear conclusions for planning and implementing future training. [3]

Methods of psychology such as testing and analytical diagnostics effectively help in carrying out this work.

In the process of analyzing the results of activities, it is not the result itself, but the activity involved in generating that result that is psychologically evaluated. This method is widely used, especially in student psychology. By studying the activities of students, information about their psyche and development is obtained. [4]

In the era of computer and information technologies, in order to increase the efficiency, speed and convenience of psychological testing and diagnostics, two opposing areas, such as psychology and computer science, are currently mutually contradictory, working in communication and complementing each other. In the end, just as technical psychology exists, so psychology has its own technique. [6]

To be more precise, many modern technical devices, software of various psychological tests, diagnostics and analysis of other psychological processes and events are now available using a wide range of software tools with incredibly good capabilities that can be implemented in any field, and technical equipment is being created.

Based on the above considerations, the Department of Modern Information and Communication Technologies of the International Islamic Academy of Uzbekistan has developed a program for psychological diagnosis "Psychological diagnosis of students' propensity to religious sciences (on the example of psychological diagnostic testing program)." This program is a diagnostic system that, unlike ordinary diagnostic programs, has the ability to determine the direction of the spiritual-enlightenment and religious orientation of students, diagnose it and direct it correctly.

The program includes a set of psychological tests as a repository of data, based on the nature of the answers entered by the student after the test, the degree to which the student's consciousness has developed, the level of knowledge and the scope of knowledge, the direction of existing knowledge. (conscious) or false (unconscious), a tendency to deviate from the wrong currents in his verb, a diagnosis (diagnosis) of the presence or absence of extremist and terrorist ideas formed in the mental and intellectual world, the physical, mental and the formation of a virtual portrait of the mental trinity is then a "virtual psychologist" system that advises the student according to the result achieved.

The main goals and objectives of the software system are:

- a) To study the personal (individual) psychological characteristics of the subjects of the educational process;
- b) Monitoring the development of students' social maturity and professional qualities;

- c) Determining the psychological and pedagogical readiness of students for vocational education;
- g) Identify the psychological causes of defects in the intellectual and personal development of students;
- d) Determining students' professional abilities, skills, competencies and attitudes towards their chosen profession;
- e) Determining the social role of students and their place in the group, and so on.

After the stage of psychological diagnosis, the process of psychological prevention is carried out and it includes:

Ensuring the personal development of the psychologist in collaboration with the team leader, medical staff and officials, while maintaining the individuality of the student;

Identify the causes of deviations (negative deviations) in student behavior and prevent such cases;

Identify and prevent the causes of stress, depression, conflict, negative emotional experiences;

Provides psychological support to students with disabilities.

Creating a program based on the right structure and logic will require the program to be perfectly linked in terms of both psychology and technical logic. Testing is a standardized, often psycho-diagnostic method designed to identify individual psychological differences that are specific to a quantitative and qualitative type, limited in time overtime during the experiment.

The purpose of the test is to understand a weapon with a special feature that performs the function of assessing the psychological characteristics of individuals. It consists of a set of conditions (tasks) or questions designed to reveal categories of different parts of behavior, taking into account a certain standard condition.

This psychological diagnostic test program serves not only as a system to diagnose the individual, unique features of the user's mental and spiritual world, to conduct additional interesting tests, to help him increase his knowledge in the field of psychology, to deliver useful literature. One of the biggest advantages of the system is that it runs both a test mode for the experimenter, a working mode, and a diagnostic mode for the experimenter.

That is, in this case, the test taker works by giving sincere answers to the test, thinking that he is taking the test just to get information about himself, because he is not given any notes or tests that indicate that his religious affiliation will be checked. However, the observer receives enough information to determine the level of his mental and emotional aptitude on the basis of the results, and the program automatically records them in the database.

Based on this, the main sections of the program consist of the following menus: "About the program" menu; "It's interesting" menu; "Terms" menu; "Recommended" menu; "Search" menu; "Start test" menu;

In the "About the program" menu: help with the installation and launch of the program, its purpose and rules of use. Information about the creators of the program will be available.

In the "It's interesting" menu: users are faced with a set of interesting, humorous tests on a variety of topics, which allow them to identify different aspects of their individual characteristics and behavior. Examples of such tests are: temperament detection, various picture and shape tests. They go through a testing process and are diagnosed on the surface of the results.

In the "Terms" menu you can get acquainted with the Uzbek translation and interpretation of terms and terms in more than a few hundred fields of psychology. The "Recommended" menu is a small virtual library of national and foreign literature: lectures, works, textbooks, which serves to enrich the mental and spiritual world of various students. It contains useful and interesting literature in the field of religion, psychology, spirituality, enlightenment and other areas.

"Search" menu - it is possible to search all the information contained in all available databases in our program in the form of a site. These include: psychological terms, useful literature, types of tests, user lists by administrator password, and so on.

The "Start test" menu is the main menu of the program, in which the process of diagnosing the level of religious affiliation of the student is carried out.

There is also a list of other similar software and websites that reflect the goals and objectives of the disclosure within our software tool, as well as the convenience of accessing them directly via a link.

By pressing the "Exit" menu button, the user can end the program and leave it.

The program view is in the form of a website, and its main window consists of four main parts: top, bottom, left and main parts.

Unlike other psychological programs, the questions are not selected in a one-way and primitive form. The tests themselves are divided into five stages, which include:

Optional tests serve to reveal subtle points about a subject's inner psychological state, his or her character and behavior. Such cases include: his will;

Approved motivation (yes-no answer) tests - determine the degree to which the test taker's traits such as persistence, skepticism, honesty or deceit, cowardice;

Picture (aggression) tests help to determine the degree of irritability, that is, the nature of aggression, which has existed in the subject's character and behavior for a long time and occurs when faced with certain situations. The level of propensity is so high in a person with strong aggression

Logical tests - reveal how well the test taker's logical thinking ability has developed. Explains independent thinking, mental level, well-developed and well-formed logical thinking ability.

Formal or IQ tests are a collection of antique and very interesting tests that report IQ, that is, the level of intellectual ability developed in individuals, the speed of logical and mathematical thinking.

The main purpose of dividing the tests into such groups is: to increase the interest and courage of the test taker.

The program is based on web technologies, designed to attract users in terms of design, ease of interface, analysis of current psychological diagnostic data, using JavaScript, JQuery library, HTML, CSS, PHP, PhotoShop software and AJAX technologies.

CONCLUSION

The above method is used for research purposes. In addition, some psychological methods are also used for testing purposes. The aim is not to introduce any innovations in the science of psychology, scientific knowledge, to discover the law. These methods are to determine the presence of a trait in the person being studied, its level of development, the degree of compliance with various criteria. The software system is used to study a person's professional ability, level of mental development, level of knowledge and voluntary inclinations. The effectiveness of the program is determined by the methodology on which they are based, the suitability of the test structure for many requirements, the conditions of conduct, and the adequacy of the requirements.

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