Design and Development of the APP Scoring System for Admission Assessment of Apparel Performance Professional

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ABSTRACT

Apparel performance professional entrance examination is an important part of college enrollment work, the improvement of its efficiency not only reduce the candidates and parents waiting time, but also can reduce the examination staff and judges on-site evaluation of the work pressure. In this paper, the APP scoring system is one of the subsystems of the admission assessment of apparel performance. Its design and development combined with the actual situation of enrollment in our school, and realized the automation and informationization of the evaluation work. Using the system, the judges can score the candidates by installing the APP Tablet PC, the system background can automatically summarize the scores and sort. The system greatly improves the efficiency of the interview site evaluation, in the actual work to get a better application effect.

INTRODUCTION

The rapid development of information technology has provided new opportunities and challenges for the enrollment, teaching and management of
universities, which has led to the innovation of educational ideas and management methods. The construction of Internet-based enrollment information system has played an important role in the process of enrollment. Admission information is a very important part of educational information, which provides basic information for the implementation of educational information in colleges and universities. Such as student management, file management, teaching management, charge management, accommodation management, etc., need to recruit students to provide new basic information [1].

Apparel performance professional enrollment is generally considered the comprehensive results of the interview and the college entrance examination, and the interview is particularly important, because it is related to the ability that colleges and universities could select the outstanding potential candidates from others[2]. And a professional model not only need to have a good physical condition and appearance basis, but also need a good personal temperament, professional sense, cultural literacy and clothing display [3]. In the interview session, the judges need to assess the performance of the candidates in a short time, and the examination staff need to timely and calculate the results of candidates. Coupled with more and more candidates in recent years, the interview evaluation section is a complicated work.

In order to reduce the work pressure of the examiners and judges, this article designed and developed a set of mobile APP scoring software system that could be used in the evaluation site. The judges through the installation of APP Apple Tablet PC, not only can browse the image of the candidates, measured data and other information, but also can evaluate the candidates all-round. This software system has been used in our school enrollment and gotten a better application effect.

APP is the "application" abbreviation, refers to the third-party mobile phone applications, also known as "mobile applications", is the dominant form of mobile Internet applications [4].

**SYSTEM REQUIREMENTS ANALYSIS**

After the school published the examination information, the candidates could get online registration and payment. The enrollment department audits the registration information of candidates and downloads the data. The next step work is the scene interview evaluation. The first day’s work is the measurement of physical data; the physical measurements include the twelve data of height, weight, chest circumference, waist circumference, hip circumference, length, lower body length, shoulder width, upper arm circumference, thigh circumference, calf circumference, ankle circumference. At the same time, the other factors or defects that could affect the occupation are marked, such as birthmarks, scars, tattoos and so on. The second day’s work is the initial test, which the main test is "Physical Observation" and "Model Skills". The candidates who passed the initial test would attend a reexamination in the third day. In the re-examination, the main test is "Physical
"Observation", "Model Skills", "Talent Show" and "Oral Test". These candidates that pass re-examination could get the examination issued certificate.

The examination subjects of initial examination and re-examination: "Physical Observation" mainly conduct a comprehensive assessment on the physical conditions of the candidates; "Model Skills" is mainly to examine candidates gait, gesture, expression, musicality and so on; "Talent Show" can be optional dance, martial arts or aerobics fragments, mainly to examine the candidates in the form of coordination, rhythm, artistic appeal; "Oral Test" is mainly to examine the overall quality and language skills of candidates.

The evaluation of the candidates generally is divided into two kinds. One is qualitative evaluation, qualitative evaluation in addition to four difference levels: excellent, good, moderate and poor, but also pre-set a number of options, see Table 1. In the actual evaluation of the time, the judges can also enter their own other comments. The other is quantitative evaluation, which is the candidate's test scores. Candidates score ranking to quantitative evaluation shall prevail.

SYSTEM DEVELOPMENT AND IMPLEMENTATION

Taking into account the use of the Apple iPad Tablet PC, select Apple Tablet PC is the main reason for its stable operation and looking nice and generous. It can meet the long time without the use of errors, and meet the model which is a fashion professional theme. So that the APP was developed for iOS operating system in order to meet the demand.

Objective-C was used to develop the APP, because Mac OS X and iOS are based on Objective-C. Objective-C is an extended C object-oriented programming language. In addition, Objective-C is a very "real" language. It uses a program written in C, a small runtime, will only make the application of the size of the increase is very small, fast execution time, the amount of code [5].

In order to avoid the impact of network instability and better ensure the normal conduct of the interview assessment work, the system would download the information of candidates to the Tablet PC. Then, the judges can use the Tablet PC to score with offline. After the end of the score, the scoring data could be submitted in case of having network.

After the judges have logged on the system, they can click on the "Admission Assessment" button, then, the page is displayed on the current page can be evaluated. They click on the icon "Male" or "Female" and they can enter the first scoring page of the apparel performance professional scoring system(see Figure 1). In this paper, female candidates are as an example to describe.
In Figure 1, there are 15 candidates test number and their image photos (all the images in the paper are for the test image). And then, the judges click on the image of the photo and can enter the test candidates specific score page. There are four labels below the page, namely, "Not Score", "Scored", "Not Participate", "Submitted", respectively means: “is not rated”, “has been rated”, “did not take the exam”, “has submitted the results”.

Examination is generally divided into two kinds, initial examination and re-examination respectively. Figure 1 shows the page of initial examination. And of course, the re-examination page is similar. When the image of the candidates in figure 1 was clicked, the judges can score the candidates based on their data information (see Figure 2). If a candidate is absent from the examination, the judges can click on the "Not Participate" button, the candidate data is submitted to "Did not take the exam", to avoid the phenomenon of missed exam.
Figure 1 shows the candidate's number, image, physical test data, and remark information. The judges of the candidates have two ways of qualitative and quantitative evaluation, and the final result of the candidate is a quantitative way. The qualitative evaluations of "Physical Observation" and "Model Skills" have four options: excellent, good, moderate and poor. And in the two below boxes, the judges can also fill in reviews of the candidate.

When the two evaluations are completed, the judges can fill the quantitative score of the candidate in the test box on the right of the "Results" box that is the only basis for the summary of the summary. And then click the "Save" button, the candidate's evaluation data is saved, the candidate information automatically transferred to the "Scored" tab. If the candidate does not take the exam on time, the judges click on "Not Participate", the candidate information can automatically go to the "Not Participate" tab.

In Figure 1, clicking on the "Scored" shows the candidates who have participated in the examination, then the test result of the candidate can also be modified. In this page the judges can also submit the result data to the soft system. Clicking on the "Not Participate" shows the candidates information of having not participated on time, candidates later can also be on these candidates to score. Click "Submitted" to show the candidate information that has been submitted to the database. After the submission, the judges can no longer modify the candidates' results.
CONCLUSIONS

As a subsystem of the apparel performance professional admission assessment system platform, the APP scoring system can greatly improve the automation and information level of admissions work when it is used or the scene of admissions.

The judge can use this system with Tablet PC which has been installed the APP scoring system. The APP scoring system can reduce the use of the system threshold and operational difficulty, and its interface is simple and intuitive. The judges can browse the information of the candidates in the assessment interface of Tablet PC, score the candidates combining with their performance, and upload the score data to the system which its background can automatically calculate the test scores. The APP scoring system can speed up the process of on-site evaluation, and ensure the smooth progress of the examination process. In the practical application, it has better use of the results, with a certain application and promotion value.

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REFERENCES