

## A New Registration Model for Mandarin Proficiency Test

Xiaodong Dai, Yi Wang, Lin Tang\*

*School of Humanities, Sichuan University of Science & Engineering, Sichuan, China*

### ABSTRACT

Mandarin proficiency test is an important proficiency test in China. In 2001, China joined the World Trade Organization, and there are more and more exchanges between China and other countries in the world. The official language of China (Putonghua) is widely used in all countries. In order to promote the interactions and exchanges around the world, Mandarin proficiency training and test come out. Due to various reasons, more and more people receive the training and want to gain the high levels in the test. There are a lot of testers, and it brings much trouble in the registration phase. In this paper, a new registration model for Mandarin proficiency test is proposed to simplify the registration process. The proposed model is convenient, and a lot of time can be saved by using it. The testers can track their status, and easily obtain the related information about the test. The administrator can easily handle the registration information for every tester, and manage the proficiency test better according to the testers' information in our model.

**Keywords:** Mandarin Proficiency test, Registration Model, Management

### I. INTRODUCTION

As we know, China has the largest population in the world. Its official language is Putonghua[1]. With the increase of China's comprehensive national strength, Putonghua becomes more and more important over the world. In order to communicate with foreigners well, more and more native people want to speak mandarin fluently. The scale of Mandarin proficiency test[2-4] is increasing continuously. Mandarin proficiency test is a spoken Chinese test on the standard degree[5]. To ensure the smooth development of the exam organization work, the administrator has to face greater pressure and challenges.

The mandarin proficiency test is always organized and managed in high schools. The existing resources of high schools can be used. However, the registration and the charging ways are flexible. The registration[6-9] can be finished for the whole team and individuals. If the registration can be well organized, the workload of the staffs can be reduced, and the testers will feel relaxed. If not, there may be much trouble for the high schools, and it may be harm for the testers.

With the increasing of the testers, the management workload for the registration is more and more heavy. The traditional registration system is not suitable to deal with the large number of testers. It is necessary to design a new registration system with modern technologies.

Our contributions. In this paper, we firstly analyze the disadvantages of the traditional registration model, and then a new registration model for Mandarin proficiency test is proposed. The main contributions are shown as follows.

- The registration server is used to help the

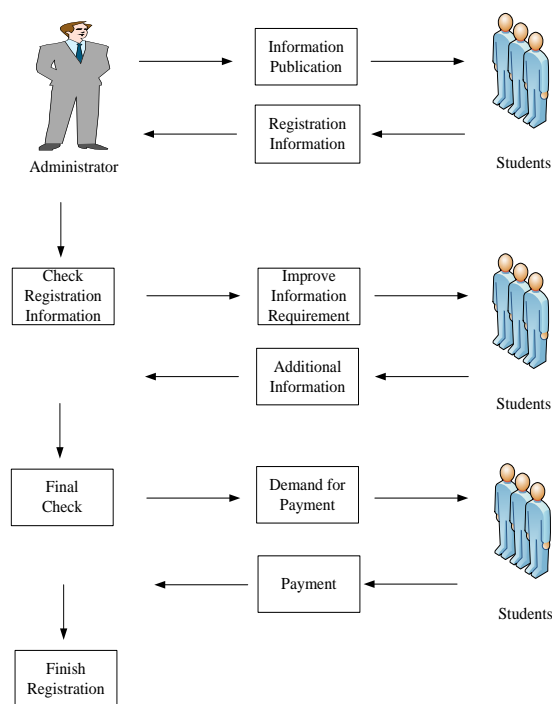
administrator to easily finish the registration, which can simplify the registration process.

- The educational server is introduced to complete the tester's real and important information. With which, the upload information of the testers will be reduced, and no fake information would be uploaded.
- The new registration model is practical and useful for modern Mandarin proficiency test. Much money and time will be saved.

### II. TRADITIONAL REGISTRATION MODEL

In the traditional registration model, manual way is mainly used to finish the registration. The process is shown in Fig.1.

The administrator firstly publishes the Mandarin proficiency test information. When getting the registration information, the students prepare for the registration materials, and give the registration information to the administrator. Then, the administrator has to check the information. This work is hard. The administrator should check whether the student's information is complete or not, and whether the student's photo is suitable or not. If there is some wrong information, the administrator should take notes. After that, the administrator has to ask the student to update the information one by one. This work will waste much time. Then, the students update their information and add the necessary information. Next, the administrator should check the information again. If all is ok, he/she asks the students to pay for the registration. The administrator should record the payment, and then finish the registration.



**Fig.1** Traditional Registration Process

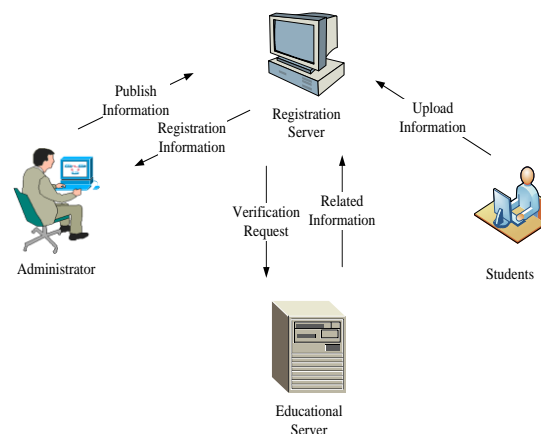
There are several disadvantages in the traditional registration system.

- The students have to print out the registration form and fill the information. Thus, the information is hard to update, and a lot of paper will be wasted.
- It is hard to identify the information, if the information is recorded with poor handwriting.
- Very heavy workload for the administrator, he/she should check the information one by one. And it is easy to make mistakes.
- Many photos may not be suitable for the registration. There is no unified format. Thus, the students may not get the certificates even though they pass the test.
- The paper materials are difficult to manage, and it is hard to find the required information.

In order to solve these problems, an automatic registration system is needed.

### III. NEW REGISTRATION MODEL

With the rapid development of computer science, database technology has been widely used with the application of the Internet. The computer can be used to analyze the registration information automatically. The computer server is useful, which has large storage space and powerful data processing capacity. In the designed registration system, a computer server is needed, and the database should be connected with the school education system. The designed registration model is shown in Fig. 2.



**Fig.2** New Registration Model

In our model, the administrator's workload is greatly reduced. The main contribution is the educational server is introduced to provide the main information of the testers (including the photos), and a registration server is built to automatically deal with the testers' information, which can obtain the testers' important information from the educational server.

In the beginning, when the students are admitted to high school, the real and detailed information of every student is obtained and stored in the education server. In the registration process, firstly, the administrator publishes the registration information. Then the students just upload a little required information, such as name, gender, and the student number. When getting the required information, the registration server sends the verification request to the educational server with the required information. And the educational server will send the related information to the registration server according to the required information. After that, the rest information is automatically full filled (the photo, ID number, grade, major and so on). At last, the administrator obtains the whole registration information easily.

When the registration information is put straight, the administrator publishes the payment notification, and the students pay the registration fee. Then the registration is finished.

There are some advantages in our new registration model.

- The registration process is paperless, and the time, money, resources are saved.
- The computer technique is used. The information can be automatically obtained from the educational server. And it is easy to update the information.
- The educational server is introduced, in which the real and full information are stored. The photo and ID number are provided by the educational server. In this way, the imposter is rejected and no fake information.

- The registration information is easily to manage with the help of the registration server. And it is convenient to look up some related information of the testers.

The whole registration process is automatic, the workload is greatly reduced.

#### IV. CONCLUSION

With the development of international trade, the China's official language is becoming more and more important. Mandarin proficiency test is becoming a hot spot. The number of testers is increasing rapidly. The workload of registration is very heavy. In this paper, the traditional registration model is analyzed, and the disadvantages are pointed out. Then a new registration model is proposed. The registration process is designed to be automated, and the advantages are analyzed. Due to these advantages, our new registration model is more practical and useful.

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