

## Based On 3G Phones Adult Distance Education Platform Research

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**Abstract.** Through the analysis of contemporary and distance education 3G technology, combined with the influence of the 'already use education platform' online TVU remote, the author puts forward a mobile phone version of adult distance education platform, and the scheme out specific platform function design and teaching resources conversion comments.

**Keywords:** 3G phones; adult distance education; platform

### 1. Introduction

China's remote education are now in the third stage, namely using computer technology and digital multimedia technology education mode of distance education. The education department in the national education undertakings in the 10th five-year plan of the education informatization engineering points out that the listed in the state key construction project, informatization spurs education modernization. The current distance education are on the Internet, although this model has been accepted, and development, but also facing many challenges. The Internet has also has some limitations, the site of the Internet is limited. By the end of December 2010, Chinese netizens to area of 3 big functions 4.57 billion scale, which means and most of the people in work or life of the place still didn't use of distance education network, which the popularization and development also has a certain limit. China mobile phone users get to 3.03 million, beacame the mainspring of China's overall netizens of scale climbing up still. China's mobile phone users currently has more than 8 million, 3G licensing move 3000 million investment TD network three years, covering the whole country. This series of digital display, 3G technology maturity and development will inevitably drive the development of relevant information and resources. We can with the momentum of development, promote the development of distance education, makes the distance education platform process as soon as possible to find the position on 3G networks.

### 2. 3G Technology Of Modern Distance Education Influence

3G can provide the blended for personal communication, including text, voice, video, animation, graphics, etc. Various information, can integrate the network transmission smoothly on the platform.. People can also interact with meeting television in great way to communicate, reduce the cost of meetings at the same time to realize the remote collaborative work.

But distance education which used in the media, such as television, network video, still need we use camera teachers teaching process and real-time transmission to streaming media coding machine, after acquisition card after the acquisition, coding to flow again real-time ground media server, again by streaming media server real-time release to other classroom of the terminal computers. They lack the interactive multimedia technology, the whole information production and layout is a sequence, students cannot to choice according to need time and demand. In most situation, students must on time watching, so the students learning process still at a passive position, learning rise also has the certain difficulty. 3G reduces the process, can use 3G phones real-time shooting teachers teaching process and real-time transmission contacted students or to resource demand.

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Meanwhile now adult distance education platform also affected by the place limit, can be in only have computers and the Internet place, then can login school course website announcement, view the course selection and related information. The advantage of using 3G network is the fast transmission rate of voice and data, it can realize seamless roaming globally better, and images, music, streaming video etc. Various media forms, including web browsing, telephone conference, e-commerce and so on many kinds of information services, these services can be provided for students' learning higher standards of service and convenience.

This treatise combining our adult present situation of the application of remote online platform, analyzes the 3G technology in remote online platform of the application, so as to arouse the enthusiasm of students' study, convenient student learning links and school at any time check the information released. Now a lot of municipal open universities can't log in homepage with mobile phone. The homepage of CCRTVU although can login but because the mobile phone flow and browser patterns limit, lead to web browsing speed slow, displaying information incomplete or teaching resources cannot access, students cannot discussion issues of exposure. This contemporary distance education has failed to meet students' learning needs, and age decoupling.

### **3. 3G Phones Adult Distance Education Platform Can Realize Part Of The Main Function**

#### **3.1. The Basic Function**

Login system: In the mobile browser interface, which can be shown on the identification of the login, students, facilitate inquires the examination, the examination room with information such as the permissions recognition as a BBS exchanges.

Inform bulletin board module: is mobile web sites, is an important part of the instant important information will be published on the home page, let students to schools and teacher in charge's recent requirements be clear at a glance, and improve the management efficiency, and the use of more convenient student, as long as own mobile anytime Internet browsing.

BBS forum: Students can log on, or to the discussion questions, and the module teachers design to reflect between student and the interaction between teacher and students, and both teachers and students may not limit go to work in time communication, information updates faster and more convenient.

Teaching resources area: This is a fairly high technical content, the key problem is how to module it will existing mobile phone access some resources and docking, because mobile Internet browser version by network mode and the restrictions, and cell phone use different models of the operating system or browser version is different, this article also tries to analyze this conversion technologies, such as the use of some special conversion software or new courseware manufacture technology, such as now central rtvu are promoting the use of lectora multimedia production software.

#### **3.2. Senior Function**

The choosing Courses function: Students' own courses will become '1 + 1' mode. Specific plan: The teacher choose 'compulsory course' (by software automatic generation) and students choose the 'optional course'. So avoid compulsory elective course problems that appear link to choose or wrong choose leakage causes the students delay or do not graduate occur; In the original platform students log on can only see the curriculum resources related to increased the course link scores query and the score, examination of learning, graduation, undergraduate survived exam and degree can be set (including exemption course); it will integration the some function of teaching management system of CCRTVU and online platform for open education, in order to convenient open education teacher management, and reducing teaching academic link, avoiding making mistakes.

But this of the module, need to continue research is by now some mainstream mobile browser and screen size display restrictions, may cause students during use error-prone. And the object basically of the curricula-variable are the new students, they are may still unfamiliar of the open learning platform; but future course learning process is an important part of the curriculum to play for after the vital role. Based on these factors, we can consider to design a software, course system can be compatible all 3G mobile phone operating system now, so student can set up and operate it then transmit the data to the server to retain.

Online examination: This function may start from online operations began to try out, permeates gradually optional courses, and finally realize to the compulsory courses. Now the CCRTVU will try out all courses to realize paperless examination, the modules can be butt joint with it future.

## **4. Mobile Remote Teaching Platform Teaching Resources Conversion Analysis**

### **4.1. The Use Of Mobile Office Software**

For instance, we can use the software of Quickoffice Premier Microsoft Office 2007 support reg; The S60 3rd edition equipment. It has the powerful ability of The Premier Quickoffice 4.5 +, giving full play to the role of smart phones, allowing the equipment into a powerful mobile office. In other words, if you equip the software on your mobile, you can use Word's DOC, Excel XLS format files and PowerPoint PPS files.

### **4.2. Video Resources**

General mobile phone support these three formats: 3gp, avi and mp4, but now some just out of the mobile phones can play computer format such as rm etc above. Now there are many resources of softwares on the Internet, such as WinAVI 3GP/MP4 / PSP/iPod Video Converter green localization version V3.1, "format factory", etc.

The other is the above mentioned can use 3G phones real-time shooting teachers teaching process and real-time transmission contacted students or to resource demand.

### **4.3. Using New Teaching Courseware Of The Software**

The CCRTVU trained lectors software last year, It is one of the digital learning development tools of America Trivantis Corporation subordinate. Lectora is mainly used in the development of web blended digital textbooks. We can try to analyze this kind of software and mobile phone operating system compatibility, and to make courseware form is more flexible.

I think resources handling is based on 3G phones adult distance education platform, which is the basis of the previous learning mode change deserves careful studies highlight.

Last words:

If the phone adult distance education platform solutions can get reasonable and effective implementation, students can truly no regional, no time, no fixed patterns limit remote open learning. It can complement with existing online remote education platform, for the new age increasing the generation after 80s and 90s students learning requirements. It has the vast space evacuation of open education future for the development. Teacher if can also skilled with the mobile platform, can faster grasps student's dynamic, also can improve the teaching and management efficiency.

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