

Application of Online Learning APP in Higher Music Education - Take Yunmeng APP as an Example

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Abstract

With the increasing popularity of wireless networks and the high development of information technology, online learning through APPs is a unique product of the information age. A variety of mobile education apps have appeared in the field of education. How to use educational apps to assist higher music education and realize complementary advantages with traditional teaching methods needs careful study by every higher music teacher. Through a lot of practice, it has been found that although there are a lot of educational apps emerging in the education market at present, few of them can be applied to higher music education teaching. This paper mainly introduces the development history, advantages, and disadvantages of online apps, and finally expounds on the application of the Yunmeng APP in higher music education.

Keywords: *higher music education; Yunmeng APP; online learning; application; advantages and disadvantages*

I. The development of online learning APP

1. The application of online learning apps

In the context of the mobile Internet era, a variety of new learning methods continue to emerge, and more and more education apps appear and quickly occupy the education information market, effectively breaking the constraints of time and space on learning communication.

Online learning apps are a unique product in the information age. Various mobile education apps have emerged and entered the field of education. Give full play to the effect of online learning APPs, give full play to the advantages of education APPs, integrate them with traditional teaching modes, and apply them in higher art education. How to integrate higher music education and give full play to its due value is the problem we should study.

With the arrival of the big data age, the maturity of online education, AI, or artificial intelligence, and other technologies has hastened the shift in the development trend of higher music education, owing mostly to changes in the social education environment. In recent years, the world

community has placed a premium on the advancement of Internet education. Both developed and developing nations have steadily expanded their investments in online public education and the development of online learning systems. They have built for-profit and non-profit online learning platforms in North America and the European Union. From 2003 to 2013, the growth rate of enrollment in online education surpassed that in higher education in the United States.

2. Disadvantages of most current online learning apps

There are more than 1000 keyword search results for "online education platform" on CNKI, indicating that domestic research on online learning platforms is relatively rich and comprehensive. However, the research content is mainly theoretical research, mostly focused on the "future development trend of education", "achievements and transformation of artificial intelligence in education development," and other aspects, and the construction results are slightly insufficient. According to statistics, there are more than 100 online learning platforms in China, mainly for basic education, higher education, vocational and technical education, and lifelong education. Generally speaking, online education can be divided into seven categories: K-12 education, early childhood education, overseas study, language learning, comprehensive education, vocational education, and interest education. Among them, K12 education is mostly a question-answering resource for primary and middle school education, which can be answered by taking photos in the app software. For early childhood education, O2O mode is adopted, offline stores are used for course development, and a course app platform is established.

Vocational education focuses on vocational skill training. They mostly work with employers to improve vocational skills and increase employment rates. In the field of overseas study, it is mainly a B2C model with teachers and a full user experience.

At present, the research on network platform construction mainly includes single platform model research and integrated platform model research. A single model can be divided into two types: a single learning form and a single learning domain. The integrated learning platform model is a one-stop learning platform construction model that includes a variety of learning forms and fields. At present, the practice and successful cases of the integrated learning platform model are few. Therefore, this paper aims to deeply explore the application of Yunmeng APP in higher music education through data sorting, theoretical exploration, and research paths, so as to provide inspiration and reference for researchers of online learning platforms.

II. Overview of Yunmeng APP

1. Basis of Yunmeng APP research and development

Under the background of the Internet era, the reform of education informatization is in full swing. With the formation of online learning environments, simple offline classroom teaching can no longer meet the needs of the development of Chinese education in the new era. Therefore, after the initial formation of theoretical research, practical accumulation is particularly valuable. At present, our research in this field is still in the exploratory stage, and the theoretical and practical basis are relatively lacking. Therefore, Yunmeng APP takes building a comprehensive learning mode platform as the blueprint to deeply explore the construction path of an online learning platform, which not only guarantees learners a good sense of learning experience but also provides a theoretical basis and reference for studying the development trend of online education in China.

2. Yun Meng APP function setting

Yunmeng APP is an online education platform, mainly an extracurricular learning platform for music majors. APP functions include three categories: The first category is online learning. Through the Yunmeng APP, we can communicate with many teachers. We can gain a lot of knowledge here. By learning online, we can gain a lot of knowledge at home instead of going to a training class. In the current epidemic situation, it is very convenient and can help many students save a lot of time. The second category is video courses, which is the main reason why many people choose Yunmeng APP. This is also a function of Yunmeng. He can not only learn online through the Yunmeng APP but also watch some courses recorded by many famous teachers. By watching these classes, he can learn a lot. Third, provide all kinds of information for free. Many people want to learn through this Yunmeng APP because they want to get some certificates or pass some exams. They must first fully understand the information related to the exam, such as the place and time of the exam. The Yunmeng app can also push relevant information to users so that they can better take the exam and be prepared in advance, and we can also get a lot of study materials related to the exam. Based on the above, the author will invest in the construction, research, and development processes of the Yunmeng app in 2021. Yunmeng APP is an online learning platform based on the concept of mixed learning, which has basically taken shape. In the process of building the platform, there have been a series of technical and optimization problems, but the solution of the problems has also brought valuable experience, which will guide the construction and development of the online learning platform.

3. Yunmeng APP research process

The research will be carried out at Hebei Normal University and Shijiazhuang University, especially in the music education department. The main reasons for choosing them include: first, they offer music education majors and are the best performers in this field; second, the Yunmeng app is used for music education at both universities.

This study will employ a hybrid approach, which is a combination of quantitative and qualitative methods. Quantitative methods will be used to determine students' performance levels when using the Yunmeng app for music education. A variance analysis will be used to identify differences in performance levels in music education among students using Yunmeng apps. Qualitative methods will be used to identify challenges encountered in the use of the Yunmeng APP in music education teaching.

After obtaining approval from certain departments of Hebei Normal University and Shijiazhuang University, the researchers will conduct the tests themselves with the assistance of leading teachers. The test is divided into a pre-test and a post-test, in which none of the students have used the Yunmeng APP, and released in the form of in-class tests. The post-test was conducted after using the Yunmeng APP for two months. As for the interview, it will be conducted either online or offline, depending on the interviewee's availability. For online interviews, the Voov session will be used to network and communicate with the interviewee and get the interviewee's permission. The interview consisted of 12 questions, mainly about the learning level of music education, the arrangement of school resources, and the philosophy of online learning.

III. The application of Yunmeng APP in higher music education

We have yet to fully realize the reciprocal integration of teaching styles in the process of higher music education. Higher music education has gotten more colorful in the age of the mobile Internet. At the moment, the higher music teaching classroom is falling behind the changes in higher education; many professors are still utilizing the old teaching mode, and the indoctrinate teaching technique still takes the initiative, unable to properly reflect students' learning requirements. The students' learning mode is also relatively simple, which makes the gap between classroom knowledge and professional application invisible and, to some extent, divorces the students from professional reality, causing significant difficulty in improving students' professional ability.

In the new teaching reform, it is clearly pointed out that all kinds of teaching methods should be used to improve students' practical abilities. It is very important to strengthen students' ability to combine theory with practice and improve practical teaching. Yunmeng APP gives students and teachers very rich resources in practical education. Information penetration in the field of education means teachers must be able to dig up more information through teaching means, improve their professional abilities in self-education, and improve their teaching efficiency. Yunmeng APP belongs to an effective education platform with resources. Under the stored music teaching videos, teachers can quickly find more suitable resources for students' learning and expand their horizons. And the use of famous teachers' lecterns allows the majority of teachers and students to provide video materials of major musicians and also carry out advanced music courses live.

For students, it can enhance their academic quality and professional ability, maintain a good learning state and enthusiasm under the current situation of the epidemic enhance their professional quality, but also save a lot of time to find information so that they can more easily enter the study. For teachers, Yunmeng APP can effectively ease the complicated process of sending learning tasks and after-school tests to students. At present, we mainly use the test paper model for phased assessment. Most tests have been postponed or cancelled due to the pandemic. As the person in charge of testing students' learning, teachers can use the Yunmeng APP to continuously monitor students' learning status and performance. For the development of colleges and universities, Yunmeng APP can greatly relieve the employment pressure on school students. The Yunmeng APP contains related sections such as postgraduate entrance examinations, CET-4 and CET-6, teacher certificates, etc., which can solve the problem of students' employment and future development from the source.

In the process of continuous development and application of Yunmeng APP resources, it has received increasing attention from society, which also provides important help for the development of higher music education. For higher music teaching, effective integration with Yunmeng APP can not only obtain more abundant educational resources but also realize educational mutual assistance, learn from traditional teaching modes, effectively improve teaching efficiency, and innovate students' learning methods. Yunmeng APP has been fully used in higher music education, and the following application process needs to be constantly improved and innovated according to actual needs.

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