

The Practice and Thinking of Information Platform to Help the Collaborative Education of People

Xin Xue¹, Rui Chen^{2,*}, Liang Fang³, Jing Kong⁴

*College of Mathematics and Statistics, Taishan University, Tai'an, Shandong, China
Email: chenruimengting@163.com*

Abstract: The education of family, school and society has an important impact on the growth of students. This paper proposes to promote the cooperation of family, school and community under the help of information platform, in order to achieve the optimal strategy, truly realize the full, full and all-round education, and promote the comprehensive and lasting development of people.

Keywords: Family; School; Society (community); Collaborative education; Information platform.

I. INTRODUCTION

A. Research background

The world today is undergoing profound changes unseen in a century. With the acceleration of the new round of scientific and technological revolution and industrial transformation, the information age characterized by computers and the Internet has gradually entered the intelligent era represented by big data and artificial intelligence. This puts forward new requirements for talent demand and university development. With the help of strategic emerging technologies characterized by networking, informatization and intelligence, the fourth industrial revolution has brought new opportunities and challenges to higher education [1]. Institutions of higher learning should have the courage to face the urgent development needs of regional industrial clusters under the wave of industrial revolution, and actively explore the way of change [2].

B. The significance of collaborative education

Collaboration refers to the process of forming a joint force through coordination between each other, ultimately benefiting multiple parties, enhancing the effect, and promoting common and efficient development. Family, school and community cooperative education mechanism refers to the three important education bodies of family, school and society in promoting the growth and talent of young people, closely focusing on the fundamental task of cultivating people by virtue, maximizing the mutual exchange of elements, functional complementarity and mutual influence in the education process, and jointly maximizing the education effect through organic coordination and integration. And the process of forming a lasting and stable source of action [3].

Almost all countries with developed education in the world have begun to attach importance to the establishment of the tripartite coordination mechanism. Since schools are established earlier and relatively mature education systems, the home-school-community coordination education mechanism in most countries is established by increasing the participation of parents and society on the basis of schools. At the beginning, they may jointly carry out activities and suggestions, gradually form plans and agreements, continue to develop into organizational forms, and then rise to policies and bills, and gradually become institutionalized and legalized [4].

C. The significance of information platform for collaborative education

With the development of science and technology, information technology has gradually penetrated into all walks of life, and also triggered the reform of educational concepts and the renewal of teaching models. Today's students live in an era of high freedom, openness and information explosion. Each person has a distinct personality and a unique view of things [5]. Nowadays, with the development of computer technology, network resources are increasingly rich, which has brought great inspiration to the information platform to help collaborative education.

Schools can make use of existing hardware and software resources to promote students' learning interests through the education information system, which can link course-related video media resources, provide case studies, and promote online interaction and question-answering between students and teachers, making the originally boring concepts vivid. So that students can better understand the content of the course and improve learning interest, is the original intention of designing education information platform.

II. HOW DOES INFORMATION PLATFORM HELP COLLABORATIVE EDUCATION

A. School information platform

The school information platform provides a place for teacher-student interaction and student-student interaction. Teachers can initiate topic discussion in the interactive discussion area, or test the effect of classroom teaching and extracurricular independent learning through unified test release, so as to realize the combination of formative assessment and final assessment.

As a basic tool to connect parents and society, the communication platform can form an educational lead in the whole region, connect the three forces, and escort the growth of students; The learning platform is open and transparent, able to meet the different needs of students in the supply of educational resources, the rational use of high-quality educational resources, the full spread; Display platform, so that students' works everywhere; The evaluation platform creates a space for feedback exchange and strengthens the interactivity of education.

For schools, only by unified planning and construction of the school information platform can the information platform play a maximum role in collaborative education. The platform of planning and design mainly includes four platforms: communication platform, learning platform, display platform and evaluation platform. With the fundamental purpose of collaborative education, a school information platform in line with professional characteristics has been developed for information and computing science majors, forming a new mode of education with school-led four-in-one information promotion (see Figure 1).

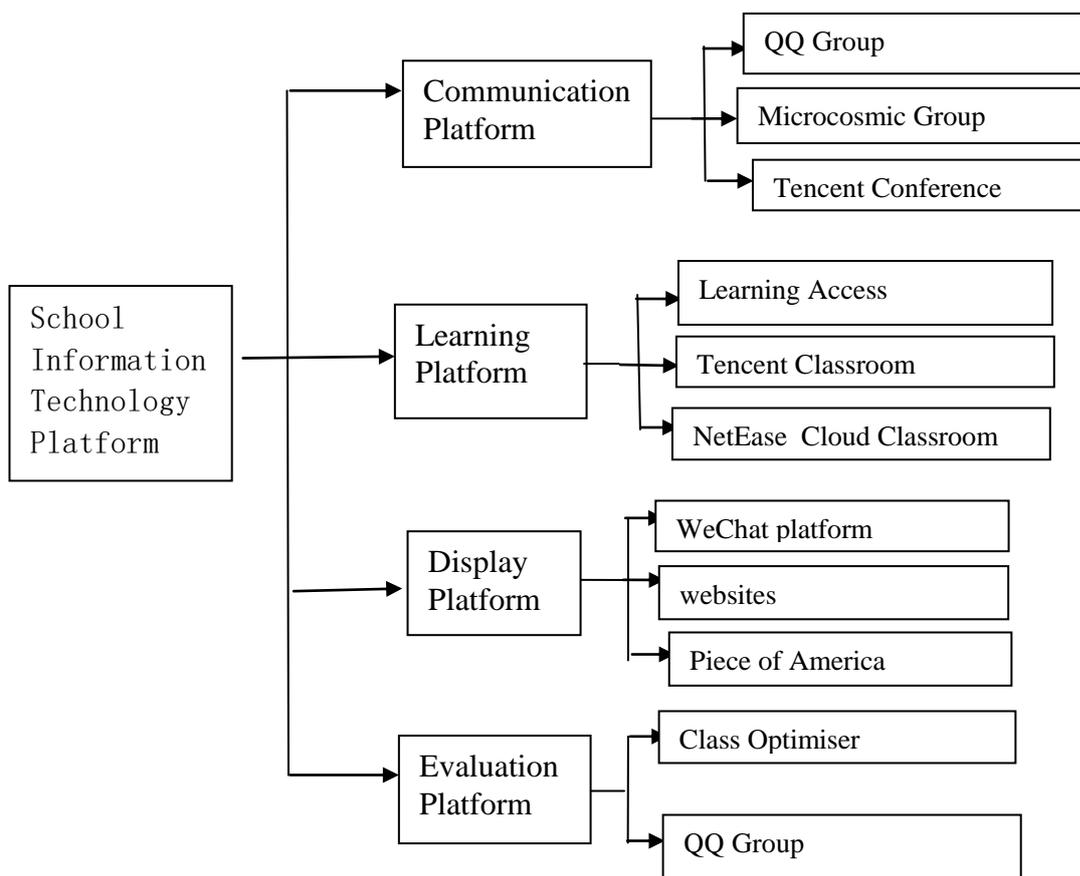


Figure 1

B. Enhanced communication platform

The school information platform provides a place for teacher-student interaction and student-student interaction. Teachers can initiate topic discussion in the interactive discussion area, or test the effect of classroom teaching and extracurricular independent learning through unified test release, so as to realize the combination of formative assessment and final assessment.

Modern education requires the school, family and society to work together and make up for each other. The information communication platform helps to effectively build the tripartite connection, and provides a high-quality information communication platform for the three parties in the process of cooperation between schools, families and society, and changes the communication methods of the school and family society. For example, in schools, some live broadcasting tools can be used to broadcast in real time, so that every parent can participate in students' learning activities, and parent-child activities can be carried out to encourage parents and students to participate together [6]. For teachers, they can carry out home-school communication through Tencent conferences, establish family education activity record albums through QQ groups, share education experience and authoritative policies in real time through links, and let parents understand students' learning situation in real time through class optimization masters, which is also an important measure for school education and family education to communicate with each other. For parents, they can use QQ groups to contact teachers at any time, raise their confusion, upload students' home learning situation, and learn about other students' family education through class groups, improve their own family education after comparison and reflection, and enhance the effectiveness of family education in a subtle way.

For the society, the main organizers of social activities such as communities can carry out various educational activities by opening community online service platforms, strengthening social communication between schools and families, releasing wechat articles and beauty articles and other technical means to attract students to participate in various activities and parents to participate in various educational professional training. Through school organization, family and school participation, social publicity and other ways to create a series of activities, can effectively promote collaborative education; The education activities with three dimensions of school, family and society carried out by the information platform can make each student's learning status be paid attention to, effectively connect the three sides of school, family and society, and promote the growth of students. The information communication platform can break through the limitations of time and space, promote the effective contact between schools, families and society, and cooperate in educating people.

C. Super star learning platform

The school has introduced the Super Star Learning platform. Students can obtain resources on the platform according to their own learning goals, monitor their independent learning process through the learning record function of the platform, and test the learning effect through the tests provided by the platform. The integrated platform integrates learning resources, process monitoring and effect detection, which is conducive to cultivating and improving students' autonomous learning ability.

The following focuses on the characteristics of Superstar learning Pass and its role in assisting collaborative education on the information platform. In order to facilitate everyone's understanding, the following figure is used to describe it, as shown in Figure 2.

D. Building a new information display platform

The information-based display platform allows every student to be seen, students' works can be displayed on the platform, students' every attempt can be affirmed, every piece of work can be displayed, and every effort can have an audience, students' internal growth is awakened, they gradually believe in themselves, so as to achieve themselves. The information display platform of the School of Mathematics where I work displays students' learning process and learning results through information means, effectively promoting students' multi-dimensional display. School teachers display and share students' homework through wechat groups and QQ groups. Use wechat voting and other forms to get more students and parents involved. In family education, students' learning process and learning results are also recorded through corresponding platforms, photos or audio and video are uploaded, and students' display activities are carried out to create more sparks of thinking in communication [6].

In the next step, the college will use the information platform to push excellent cases in education, including students' works, parents' perceptions, and school measures, so that every high-quality education has the possibility to be shared and disseminated, forming educational cohesion and creating a benign environment for display and communication. The school provides a platform for students to display, but also encourages students to build their own platform for interactive display. Students can show their thinking process and works by initiating topics on the exhibition platform, attract like-minded students to explore together, and even invite teachers and social professionals to provide help. Students can also set up group exhibition groups on wechat, QQ and other platforms,

and release cloud works collection, so that the exhibition session is wonderful. With the support of diversified and convenient display platforms, students' creativity and execution are being stimulated [6].

E. Build a comprehensive evaluation platform

The information-based evaluation platform helps to objectively record students' learning process data, detect students' learning effects, and realize objective evaluation of students from multiple perspectives. The Mathematics school where I work has built an information data platform to record students' personal files, including the usual test level, usual class performance, participation in activities, etc., and has also directly sent students' performance to parents through wechat group and QQ group platforms, so that parents can understand students' performance at school and check for gaps at home, effectively promoting home-school linkage. Parents also upload students' daily performance, labor performance and personal skills at home to the wechat group through information technology, such as recording videos, taking photos, etc., to form an effective two-way linkage and create a closed loop of home-school communication and education. At the same time, the community evaluates the performance of students who participate in community services and community activities, and timely feedbacks to the school and parents through the bonus system, and pushes activity briefs, talent selection, and voluntary certificates through the wechat platform to show students' style and improve the intrinsic motivation of students and parents. In short, recording students' growth and learning process by means of information technology can evaluate students' real-time performance in an all-round and multi-angle way [7].

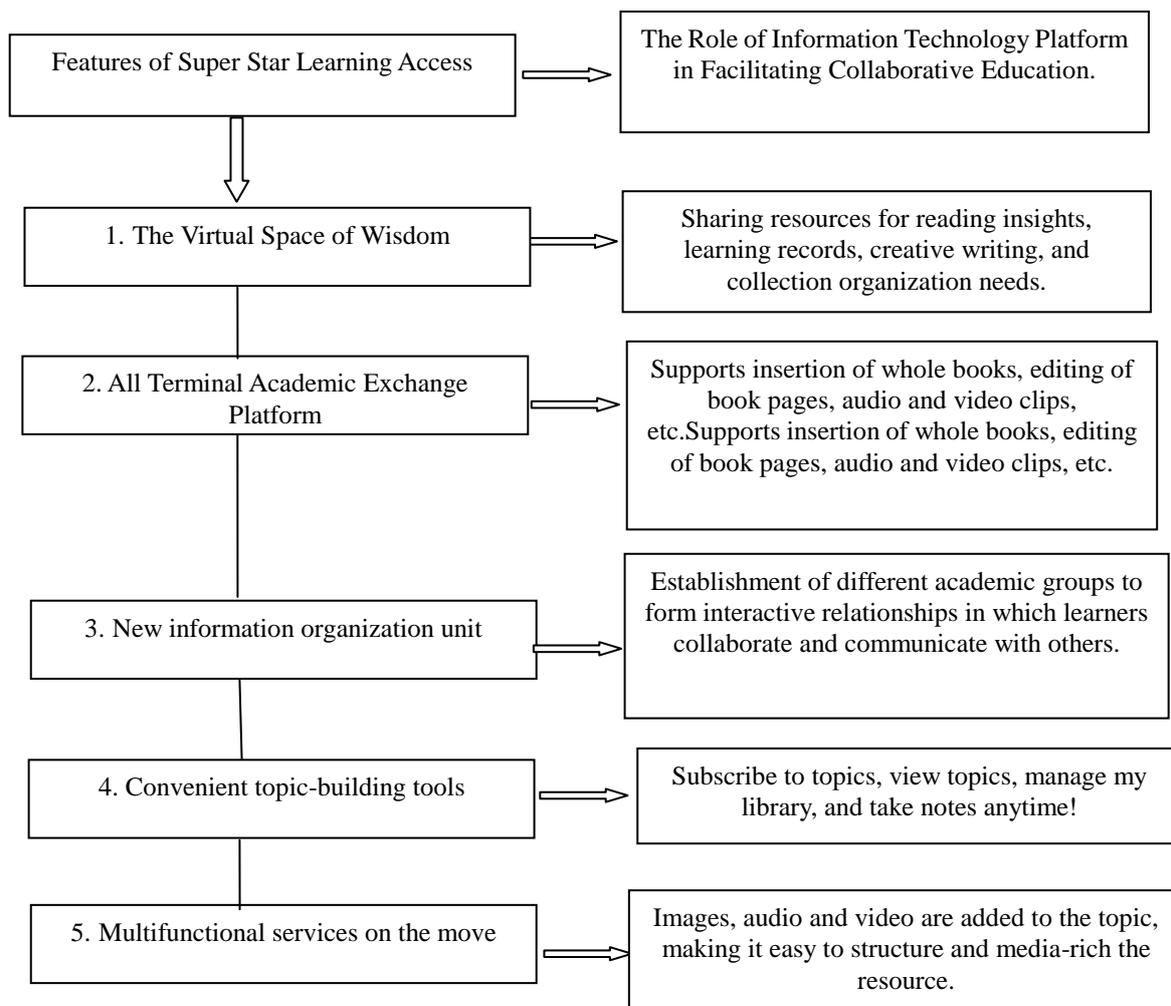


Figure 2

III. THE EFFECTIVENESS OF INFORMATION PLATFORM TO HELP COLLABORATIVE EDUCATION

The construction of information platform has brought profound changes to various fields of education and teaching, which has greatly changed the classroom in which textbooks are taught. Intelligent, networked and intelligent education information platform is supporting modern education and teaching. Informationization helps realize the collaborative education of families, schools and communities. First, a consensus is reached on the theme of collaboration, second, the problems that all parties want to solve are solved, and finally, the comprehensive diversification of education is realized [8].

A. Diversified educational resources make teaching richer.

Diversified educational sharing enriches students' learning resources. High-quality online education resource platform provides students with high-quality teaching videos and courseware, which is extremely rich in educational resources. Students communicate and form alliances online, upload self-recorded experiment operation videos, and establish personalized learning resource sharing forums; The open, diversified and sustainable learning resources fully meet the growing learning needs of college students.

B. Fragmented study time allows students to study anytime, anywhere.

Online learning software makes learning time less and less granular, waiting for a bus, waiting in line can also watch a micro-video course, complete a set of tests, read a short passage and so on. The use of fragmented time, learning time, learning times, improve efficiency. The popularity of smartphones has made fragmented online learning widely accepted by the public.

C. Super star learning platform

The intelligent classroom information platform gradually integrates machine intelligence with human intelligence, focusing on the integration of big data technology in teaching; Intelligent technology is used to realize the integrated system of teaching order management, recording and broadcasting data mining and teaching evaluation analysis. Online attendance system, video resource management and accurate message push jointly meet the needs of teachers, students and managers.

IV. THE INFORMATION-BASED PLATFORM HELPS THE THINKING AND FUTURE OF COLLABORATIVE EDUCATION

In the process of promoting collaborative education through informatization, relying on the development of information technology, the time and space for learning and communication are no longer limited, and the front of "standby" and "child-rearing" between parents and teachers is lengthened. When they return home after a busy day's work, parents have to assume the heavy responsibility of family education, and teachers have to guide parents' family education work remotely at any time, which makes some parents unable to insist. Information technology is intelligent and programmed, so with the support of technology, how to warm the heart and continuously achieve the three forces of school, family and society is also an important issue to be considered.

Since students and parents cannot be completely prevented from receiving some inferior resources, how to guide them to correctly understand high-quality resources and choose suitable resources has become an important issue to be solved. Similarly, for teachers, how to avoid the interference of advertisements, recommend high-quality resources and choose high-quality information platforms has also become one of the difficulties. In addition, for collaborative education, how to evaluate students objectively is also a place that needs attention. Each student is a piece of gold, can not use the same scale to measure, the evaluation of students must be objective, but it is inseparable from subjective judgment, how to achieve the effective evaluation of promoting the healthy growth of students physically and mentally? Many information-based evaluation means are objective evaluation criteria, how to measure the subjective evaluation elements, and make the family, school, community, school, family and society a system? These are the key contents that need to be studied in the future.

V. CONCLUSIONS

Studies in various countries have shown that most students are not good at solving problems independently by consulting courseware or learning resources, and lack the awareness of independent exploration. Students' problems in time management ability, living space management ability, individual independence, collaboration ability and independent inquiry are particularly prominent. Studies have shown that distance learning students show higher autonomy than classroom learning students, and through the use of computer-aided learning materials, students' autonomous learning ability is improved. It can be seen that it is far from enough to cultivate students' autonomous learning ability only through classroom learning. To this end, several new information platform tools are introduced to strengthen the guiding role of teachers in extracurricular independent learning activities.

In terms of collaborative education, the home-school-community cooperation of different schools and classes should not be the same, but should have individuality and characteristics, and form a unique combination according to its resources, conditions, problems encountered and the ability characteristics of various subjects to play a unique role [8]. Application-oriented undergraduate colleges and universities should not only co-build majors, courses and practice bases, but also further co-build teaching materials, teaching staff and scientific research platforms, so as to realize resource sharing, complementary advantages and common development, promote the enhancement of the connotation of discipline and professional construction, and realize multi-party collaborative education. Both schools and enterprises will further break down barriers, establish relevant systems, norms and standards in organizational management, personnel training, teacher introduction, resource allocation, scientific and technological innovation, achievement transformation, condition guarantee and performance appraisal, and form a long-term mechanism to continue to guarantee the deep integration of production and education and achieve innovative collaborative education.

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