The construction of Learning Platform in Advanced Special

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Abstract: Purpose / significance The Special educational informationization Platform is a new Learning channel for disabled students in advanced Special education, who can Develop their Potential , make up for their defects and improve their ability through this platform. method/process"" Based On the application of ofinformation Technology , this paper combines actual situation to establish a new [model for the about the Problem and Improve , platform construction Through theFeed   Back Control, of to Module . "result/ Conclusion" result shows That the higher Special educational informationization platform is the most Convenient way For disabled Students to Study efficiently,its design concept and function Would directly Pro -mote - This Continued development of the Special educationinformationization, implementation of , platform would Benefit Thousands of, Disabled students .

Keywords: Advanced Special education ; Information technology; Network platform

1. Introduction

from Internet + Since the idea was introduced , All Industries will use the internet of Things read , Cloud computing Technology , large data processing , Wireless Network Large environment information technology for Base transition upgrade . with Germany , UK , France, etc as representative of Europe national , Special attention is paid to the development of educational informatization ICT (Information Communications Technology) development , They're through country Home and Country Union and references , stepping towards integration , by drawing on other National Education theory to promote special education in wood country ICT Development .

The importance and development level of special education becomes a measure of a country

or an important symbol of the level of social civilization and economic strength in the region . , year issued Outline of the national medium-and long-term education reform and development program (2010-2020 year) (abbreviation Outline), For The first time, special education and general education are separately listed out of . " outline " indicate " Pay attention to the progress of the special education , from special difficulty students Comprehensive quality start , promote it to form positive face life ,Comprehensive social integration ideological and self-esteem independence , Self-confident spirit quality , to develop its potential , make up for its flaws as a training target ,focus on teachers in the field of special education , Improve the treatment of special workers ""[1] . also , Special Education Promotion plan (2014-2016 year "" , the promulgation , details the development of special education informationization Planning content , by Middle School special education works by our government and the Department of Educational Administration Door value ; Some academics, such as the Yang Ningchun, also believe that only the actual operation of the special education

The Digital network teaching resources used by match the hardware facilities , to maximize 2 . so , related units

when developing digital teaching resources , to clear to develop a digital system to meet the needs of students with special difficulties is to develop the special education the Most critical factor of information work this onePurpose . I.

Attach Special difficulty The actual needs of students , turn Everything for students "" Modern education guidelines as real The baton in the inter-development process , Guarantee The research is true in the special education work Real-need teaching resources .

2. the need to build a platform for higher education information Services

2.1 problems with the special Education information learning platform

There are more literatures on educational informatization in the current academic field , but the Special Education Research on information technology , While the special education information construction mainly exists as Next three issues :

(1) lack of information sharing mechanism for special education information Resources . long time to , in the development of special education information Resources ,Most special schools are heading to the Small With all the " in the direction of , due to lack of platform for information sharing , These special education School still in " sold Out" Status . Zhang Shenwei on Special Education Resource Gallery Discussion of the setting "" the article points out that our country lacks a complete special educational resource gallery , So it is common for teaching resources to overlap in special education schools , Special education Slow update speed , Problems with the sharing mechanism between special education schools in the Special education information sharing research Area , Chilingling team in China Special Education Education Resource Network hearing impaired resources construction The article says : Our country Special Education resource benefit low rate , Educational resources are not targeted and sharing is poor , not enough money for people problems such as should be a major problem in the development of special education in the present stage. Also , Zheng The is an Overview of the status of the special education repository , main contents are as follows : China Official teaching resources are in the form of a single , less mobile , and lack of humanities close bosom ; The education resources of various colleges and universities exist the plots the Phenomenon , New Course extending and sharing of resources the process is badly lacking so cast people build The various types of resources that are set cannot achieve the purpose of maximizing utility .

(2) Insufficient funds for information construction in special education . shortage of funds ask The The question is not a problem that has been displayed in recent years . China Special Education information start late development low , Most of the hardware facilities of the special schools are old , Far from the construction of special education information platform of the standard . Government use for special -purpose letters The money that goes with it is far less than its fast-growing goal , especially for remoteThe funding for special education schools in underdeveloped areas such as rural areas is grossly inadequate .

take Jilin province as an example , earlier than # Year , Jia Jun to Jilin Province Special education School The Teaching facility has a survey. , survey results show the province's special education schools with Computer , projector , hardware such as Sound Recorder is the primary teaching device . The report does not mention the special education used by the special Schools for daily teaching activities Learn devices , At the same time, it is believed that no equipment can embody the special education of information-specific sex " [6] . Ning Li The actual situation of the information construction of special education in Jilin province detailed analysis , this report mentions " , " " in research on special devices Special Education School except multimedia computer , Projector, such as general information equipment outside the , due to funds Limited , The also comes with a very small number of devices for student rehabilitation [7] .

(3) The lack of digital resources for the development of special education information . China Special Special Education Resource Network Hearing impaired resources construction for special Education information Development the Lack of digital resources proposed to strengthen the construction process of the Special Education resource database Planning and Administration , Teaching arrangement of special colleges and universities to summarize efficient and practical educational resources , Multi-disciplinary and multi-type resources coordinated development . In recent years , Guo Qiang and Feng Jianwei again based on the trend of inclusive education the construction of special educational

resources in China Deep Exploration Zhang Shenwei also combines current cutting-edge cloud computing Technologies, This paper puts forward some suggestions for optimizing the construction of the Special Education resource database "[9] " .

well known , What software systems must be equipped with appropriate hardware to play its most effective , But few academics have used special programs specifically to set In The scope of the study . also , There is one more point to mention , up to before , Many scholars seem to be teach info The scope of the study is fixed with Deaf Live" Main special hardship group , ignores visual impairment , Mental handicap , language Obstacle , student requirements for types of mental disorders . so our country's special education is still has great development space , Compare general higher Education Web learning platform with , It is not difficult to find out the construction of special education information learning platform meaning .

2.2 Necessity of developing information learning platform for advanced special education

The purpose of special education is to teach special difficulties through teachers ' teaching and learning life can be based on social , get a certain survival skill . Special worker should be in The special difficulty student's education process undertakes develops its latent Energy , the makes up for its lack trap , to improve the obligations and responsibilities of its capacity structure . on information level high speed Today , new requirements for students with special difficulties , special staff to optimize the traditional educational structure with the help of information platform , to raise a character age-required talents . so , Developing higher special education vigorously , in particular the Construction of the information platform is very necessary .

⑴ helps to improve the theoretical system of our special education platform . Special theoretical body The final purpose of the system is , principle , The implementation process together . Our special education Business has a low level of attention ,, start low , start late features , So the special manager The system also has a larger room for improvement . Pass on special education information ping Research on the table , helps to improve the theoretical system of our special education platform .

(2) lays the foundation for the development of the Special Education information platform . participate in Internet Research on information platform of network , to let us know that it faces The in the build process Challenge , and make a corresponding response , To some extent optimize special The components of the information learning platform . then lay the special education information platform rationale for development .

(3) provide theoretical basis and realistic reference for constructing special education information learning platform Follow . through a summary of comprehensive analysis and generalization , and Allows us to master The running thread and development process of the information platform , provides a specific implementation for ittheory and Reality reference .

3. Building an information learning platform for advanced special Education

3.1 Features of information learning Platform for advanced special education

Building development through the information learning platform , helps to excite special ｜ ｜ Students ' interest in learning , helps enhance the initiative of students with special difficulties , for special education teaching reform , The can convert traditional to teacher to Center " The traditional teaching mode of is converted to Special wood-hard student-centric new

Be sure to adhere to the teaching principle of aptitude , because the policy can be extremely effective to Play the role of information learning platform for advanced special Education , Improving high special education Education Quality . its operation process as shown in the diagram 2 is as follows .

3.2 Utility principle . Education in the teaching of high-special schools lack of professional water Ping higher teachers , Most special education schools in daily teaching work take the General School same education mode --

teacher Responsibility System , is a teacher responsible for Higher Special Education working mode for multiple classes . under the above conditions , teacher will take into consideration the students ' learning Attitude , Learning requirements and so on all aspects . but no more times ,Teachers Because school hardware conditions are limited , Course Resources single , Course innovative development capability Low , teaching effort , subjective knowledge of constraints such as objective time and hardware environment , Universal cramming for students education . This way of teaching temporarily holds students ' learning requirements , make students ' learning needs and personal choices do not receive the respect and attention they deserve. , Other on the one hand causing great physical and psychological stress to teachers , Make teacher's subjective activity becomes the dominant factor in the teaching process , to a certain extent events that affect educational fairness . The end result is a teacher's tiredness. exhausted , Students are tired of learning .

Information Learning Platform for advanced special education Use this as a ring. , Full Consider the principle of efficient use of educational resources , Platform redesign instructional rules then , to break this vicious circle : Students use advanced special Education information Learning Platform Autonomous Learning , teachers help to solve students ' learning process encountered difficulties . The educational model used by the information network platform is increased the Students ' ability to learn bythemselves , also relieves teachers from teaching pressure , two- pronged „ for efficient use of educational resources , the greatly improves the quality of teaching .

3.3 Collaboration Principles . Special Education Information learning platform by multiple modules to, The principle of combining division and collaboration is the key to building this platform .

The meaning of division of labor is to improve the special education information Learning platform specialization process degree , teaching thousand , the teaching goal is divided into modules . participation of each module have their own goals , to clarify their respective duties , What to do and end work by , Ways and means , Focus your work on the model that you are responsible for block on .

Collaboration is the overall scope of the information learning Platform for advanced special Education modules reinforce each other , step-by-Step completion of teaching goals . Division of the Target has singleness , Collaboration is for a single goal " Exchange " and " Consolidated " for procedure , It's similar to cooperation , but different from cooperation .

Division and collaboration must adhere to the principle of unity of purpose , only play effectively The role of the various modules of the information learning platform , to make this information platform not Negative design team Beginner 's mind, Achieving special education topics rich and clear , vivid , Teaching resource-rich design purpose .

3.4 Feedback Control principles . The feedback principle means that administration is valid , active , The key is to have sensitive , Accurate and powerful feedback , execute, feedback , re-decision , then execute , Feedback Procedure , spirals up so endlessly , makes the Administrative level continuous improvement , Perfect , keeps improving . in the teaching of Advanced education Learning activities , Teachers only know the students ' learning in real time , to be in the wood application teach , design for learner program . when Building a special education information learning platform We consider the importance of feedback control , So in the wood information level The table sets up a module to keep abreast of students ' learning Dynamics , for easy instruction Teachers and information learning platform actively cooperate , Easy Information learning platform to expand software

development of .

3.5 The overall framework of the information learning Platform for advanced special Education

Based on the above analysis , We can design the platform's overall framework , As shown in figure 3 shows .

diagram 3 Advanced Special Education Information Learning Platform Framework

(1) Register Module . Learners and teachers can register here , learners need under the guidance of the instructor or guardian, select your own base-wood information in this module , package The includes the type of difficulty and the

degree of difficulty of the learner itself . This module requires learning the user information is true , to generate background-appropriate training for learners .

(2) Build culture scheme . in order to implement the principle of individualized, This model block detailed test analysis of obstacles for difficult students , and introducing teach Learning information platform coping strategies and teaching patterns for various obstacles . learner Select appropriate learning mode , the Adds a description of your learning needs . every The training program for learners will be completed by the learning platform according to the learner The key word is retrieved from the platform's rear database to produce . for Each set of special personal scenarios a dan generation , The learning platform is visible to all participants . The development of a culture scheme benefits Arranging appropriate hardware facilities at school , helps motivate learners to learn Learning Power .

(3) instructional Design Exchange . This module will comment on the teacher's instructional design excellent , regularly displays excellent instructional design , promoting cross-teaching between teachers "" flow , Teachers design their own instructional design with reference to the excellent cases in the module up to to the purpose of complementarity .

at the same time , The module automatically retrieves teaching designs for each teacher , Pass data generation Several writing instructional design templates , Improve teaching effectiveness at the same time , Saving preparation time .

Information Learning Platform teaching is scientific , Significant benefits such as interactivity , The is now gradually becoming the mainstream teaching method . It provides a three-dimensional teaching for the classroom Learning Environment , set sound , image , Video and text media as a whole , can The makes the teaching content of special education more vivid .. Information Learning Platform teaching learning solves many problems in traditional teaching work , To improve efficiency , Culture

4. Theory Research

Ability , imparting knowledge , developing the overall goal of intellectual education , can eventually be implemented to grant Teaching Guide for special hardship learners in accordance with their aptitude .

5. Summary , Information Learning platform teaching , subverts traditional teaching mode , makes the teaching work becomes more flexible and complete , the use of multimedia has greatly expanded the teaching content for learners , stimulus The possible scope of, repeat and intensify . It is the mainstay of future education work .

5.1 Teaching System . the instructional system is the entire special education information learning platform, with the main modules . lectures from the instructor and the Information learning platform work people working together , Learners Use the Information learning platform to learn two kinds of way :

First , learners can place their own places , Complete the Learning initiative , To complete the grant class assignments by teachers , and via mobile network with instructor computer in-session , Ask the instructor about problems in the study . Instructor Benefits Mark Learner's homework with information learning platform , Is also obligated to mention the learner Questions to answer . to achieve the movement promoted by the Education information platform learning , Online Learning , The original design of interactive learning ; Second , School in existing bureau network classrooms based on domain network , Learners use their computers to Learn . learners can be in the process at any time and in a timely manner with the instructor. Move , greatly improve learning efficiency .

Information Learning platform can simulate face-to-face traditional teaching methods , also can provide more convenient and efficient features for teachers and students. learner and Information chemistry the teaching activities between the learning platform are carried out smoothly under system control , Information learning platform for each learner virtual a teaching teacher , every learner can be used to choose your own learning style and content . teach : To adjust course content , Correcting learners by information The assignments from the learning platform , According to the learner's past record of records supervision the , Check the learner's learning effect .

According to the duties and responsibilities of the teachers and learners in the actual teaching activities difference , split teaching activity into session , Free Discussion phase and learning title detection phase .

Teaching Phase . when learners encounter problems while learning , , single Click the right mouse button or fire a function key to indicate to the instructor , apply for a voice . Grant class After the teacher receives the learner's signal, can be delivered to the learner , learning who communicates directly with the instructor , after speaking ,speak automatically also teaches the teacher . E-name is the tool for the instructor to invite learners , to Grant class Teachers specify a learner from the learner's name list ,give this learner , The learner responds to the questions raised by the instructor , speaking complete after , speak back to the instructor . free discussion phase . This stage can be both is The exchange between the instructor and the learner , can also be the learner and learner 's Exchange , You can also split a learner into several groups . teachTeachers have group compilation rights at this stage , To make the learner Group . panel discussions can be contested , take turns , specified by get . Exercise detection phase . This control is still in the hands of the instructor , instructor Distribute the topic or tell the answer request , monitor thousand ho through information learning platform A learner's answer is . Exercise class by instructor based on information A comprehensive evaluation of the learning platform for each learner gives the learner No discussion with other learners when entering the line test , after receiving permission from the instructor , side The can have a brief exchange of information with the instructor or other learners . These three teaching stages determine the teaching process of special teaching work , The instructor is based on the teaching meter To Arrange course contents , This three-phase can be flexible at any time , fully mention High teaching efficiency . When using the information learning platform ,, not only ensure thatsync between learner and instructor Windows , And keep your teaching activities . The consistency of participant data access , the key to teaching effect is teaching picture Harmony Sound Synchronous real-time transmission .

in teaching structure design we use duplicate sharing structure . in this structure mode , resources that need to be shared are still stored on the file server , at the same time make each instructional application a corresponding pair on each work site , Every user at work (Each participant in the teaching activity , including teaching instructionDivision , Learner) to run the respective pair of wood , thousand What a machine's application the "" sequence is only an effect that users of the wood site have on other site users . via information learning platform , Transfer to the appropriate work site , last received to further process the application to the information's working site . so the can fully meet the synchronization and consistency of data accepted by each user in the above requirement . The primary instructor controls the learner's permissions by switching to the teaching phase , to Achieve Full control of the course Progress .

The content of the lectures and learners ' learning requires that the lectures be based on the actual situation Make adjustments or updates , Wood systems with separate data analysis module , the module through track records for learners , Analyzing Learner's true situation , for lectures Teachers preparing lessons and coaching learners for convenience .

also , The instructional system also supports multiple fonts ; provides a variety of base wood paint diagram feature ; can perform image editing , supports multiple image formats ; to make a sound , View Frequency Studios and clips , support Multimedia Collaboration .

6. Rating Module . The rating module is essentially a feedback system . Special letters Rest Learning Platform Rating module can record learner learning status , Learningto degree , Learning effects , Classroom Activity level data , The periodically passes the on the database analysis automatically generate learning reports and guidance programs and sent to instructor and Guardian Human mobile device . The section highlights issues that can be displayed in the instructional design module , for Teachers Negotiate solution . rating module through data analysis , can depict learning People's real growth trajectory , can make a scientific learning plan for learners . commentmodule is a special area of the whole special Education information learning Platform System .

7. Boot learning module . This module contains excellent learning resources , purpose provides rich collaborative learning information for learners , Easy learner Lookup and Parameters test , enhance students ' interest in learning .

8. Security for advanced special Education Information learning platform run obstacle Actions

Advanced Special Education Information learning platform with large information capacity , Action , industrial features such as strict structure , is a pioneer in the network of special educational undertakings , There is a trend towards the development of special Education Network learning . the wooden platform can make different age Group , different degrees of obstruction , special hardship students with different cultural backgrounds learning Scientific and cultural knowledge . We want the wooden platform to promote special education in our country , ｜ Development . at the same time , We firmly believe that the information learning platform for higher education must be will be the development direction of our country's special education ..

is currently , Our country does not yet have a set of formed special-education Network Systems , This also means The wooden platform from the design phase , face Stones's dilemma .

8.1 Step through the platform user requirements

Special Education in our country started late , number of special education schools less , Teachers weak , So a large number of special hardship students who have no learning place the and neglect their studies . and those who have the conditions to read the students with special difficulties is to want their children to be able to master a skill that can survive. , They are high No interest in special educational work . This means that the software we develop is extremely there may not be a suitable user found ,So in higher education information chemistry to find a large number of audience students before the platform is established . We want Special Education and general education to get the same attention , Want Society Focus on the disadvantaged group of students with special difficulties .

8.2 Track research based on user experience

Domestic scholar Dr. Yang Yunqiang in The fall of a dream -- Special School Deaf Education Requirements Research "" mentioned in , Real-life special education work environment bad Bad , special education schools can hardly meet the learning needs of all students with special difficulties .

According to survey findings , Special hardship groups have varying degrees of inferiority sense , This is closely related to the environment they grow . in civil , Special hardship student always discriminate against objects , Even their families will be subject to varying degrees hurt . before we develop the software, we first have to investigate the problems of the special hardship group's parents or other Guardians , to understand their requirements , get their Trust . These people who are close to the special hardship group are best suited to be a special education Learning Platform Advisor .

The purpose of tracking research is to enter the life of special hardship groups , only cooked Audience with Understanding audiences , to issue the learning software that best suits them .

8.3 digging into the platform to build talent

Whether it's the actual teaching work or the development of the web-based teaching platform , is not contributions for teachers who are engaged in special education "" . In fact , Special Education Industry lacks comprehensive high-quality teachers . statistics , due to special educational undertakings Environment Special , under work pressure, adverse conditions such as lower social attribution for element , Many outstanding college students who graduated from special education Major chose to switch to . This isA situation where the talent for special education is constantly being lost . and special education the learning platform needs to work with professionals in the relevant industry to be able to push smoothly on line . so , only through community efforts , leave the talents in the special all educational fields , Special Education Information learning platform to develop the soil .

8.4 seek funding support

can the construction of the information platform be successful under cost control according to schedule for , fully relies on good project management to implement . Special Education Network Learning Building a platform is a step-by-step process of development , therefore throughout the construction period to ensure that there is a long-term stable fund for people , The economic benefits of the platform require a long process to implement . So finding

sufficient and sustained financial support is the cornerstone of the platforms .

9. Epilogue

Advanced Special Education Information learning platform is a special difficult student learning Section The easiest way to learn cultural knowledge , Its design concepts and quality of function will be pushed directly The continuing development of network teaching for special educational undertakings , The platform once implemented will Benefits Tens of thousands of special hardship students . internet + thinking mode is a great help in promoting the information learning platform for special education . highThe design and developers of the information learning platform for special education should always be concerned about Internet Mode development , Keep updating the design of special education information learning platform read , Technical Level , Architecture and functionality and many other issues . with the development of the Mobile client end, Information Learning Platform for advanced special education It's going to be easier . Easy , more Practical , more intelligent features such as the special education industry .

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