

Design of an Intelligent Platform for Financial Expense Reimbursement in Colleges Based on Intelligent Data Storage of Process Information Sampling

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Abstract: The design is based on GSM process information wireless measurement system. The system is composed of related sensors and data acquisition modules, GSM wireless communication modules and main control computer, and has strong versatility. At present, colleges and universities have developed an information system that can meet the needs of financial management in colleges and universities by using advanced software development technology and combining with the actual work flow of financial management. Using object-oriented programming technology to develop a budget management system with a friendly operation interface, changing the complexity of manual budget preparation in the past and improving the efficiency of budget preparation.

Keywords: Intelligent Platform, Financial Expense Reimbursement, Intelligent Data Storage, Process Information Sampling

1. INTRODUCTION

The development of mobile communication and Internet technology has brought great convenience to people's way of life and brought about great changes in the society [1]. The development of wireless data transmission technology based on mobile network provides a new means for information transmission. With the development of modern agricultural production [2], if the former data transmission mode is still adopted, it will inevitably occupy a lot of communication network resources, resulting in waste of resources, and also pay huge communication network usage costs [3]. The system is mainly divided into four module systems, namely personnel information management system, dormitory information management system, public information management system and personal information management system [4].

Different users have different permissions in different functional modules, and their specific application modules are also different [5]. The concept of business-finance integration or business-finance integration has been mentioned in theory and management practice for a long time, but there are few systematic studies on it [6]. At present, the research and application of big data and artificial intelligence technology in the financial field is increasing year by year, and because the expense reimbursement business has the characteristics of high repetition [7], high standardization, and large workload, it has become an advanced technology relying on advanced technology [8]. One of the important research contents of process reengineering and resource allocation by means. Effectively use a large amount of virtual storage space and distributed computers to store and calculate big data [9], which greatly reduces the user's economic investment in hardware infrastructure and software, thereby saving A large number of manpower and material resources have improved the efficiency of user resource utilization [10].

The focus of financial work is on accounting, and the rest are done manually, which will lead to many problems, low work efficiency [11], and many problems, and there is a high probability of errors. The labor cost of this method will be very high, which is not good for the financial management of colleges and universities [12]. The financial budget of

colleges and universities refers to the annual financial revenue and expenditure plan prepared by the school according to the career development [13] plan and tasks. It is the basis for the school to organize its daily income and control expenditures, and it is also a comprehensive reflection of the school's scale and career development [14]. Signals such as soil pH are collected and used on site. The network realizes the remote monitoring function of the equipment, which can timely understand and monitor the running status of the agricultural production process [15].

This paper attempts to make full use of the current mobile phone GSM short message platform to build an agricultural production field information collection system [16]. Each data terminal sends the collected field data to the monitoring center in the form of short messages through the CDMA1X wireless module [17]. The data management layer is the school dormitory management department. Its main responsibility is to maintain system security, operate the operating system, import new student check-in information, and manage staff attendance and other related work [18]. Based on the analysis of the business process of coal enterprises, Lei Shuqin constructed a financial management process based on the time-driven principle, so that the business and finance of the enterprise can be integrated with each other [19].

It is very necessary to build financial informatization. The financial management of colleges and universities includes daily financial activities such as student payment [20], business accounting, fund management, etc., and also involves business activities with government departments, cooperative banks, and various departments in the school. It is considered to build a financial informatization platform [21]. It is necessary to carry out effective management of financial data first, secondly to rely on a strong network system, and finally to need various supervision and protection [22]. Taking the expense reimbursement module as an example, it introduces the operation process of the network reimbursement system in detail [23]. Now the elite education has become a popular education, and a large number of students enter higher education institutions for education, which is also a challenge for the school [24].

2. THE PROPOSED METHODOLOGY

2.1 The Credit Intelligent Prediction

Platform Algorithm

Under this background, the types of funds are correspondingly more and more. Under this background, the management level and standard of financial management should also be improved accordingly. With the continuous increase of national and local government investment in education, the total amount of income and expenditure funds in colleges and universities is also increasing, and the old way of manual bookkeeping is no longer sufficient for daily financial management. With the continuous development and improvement of management information system technology, the use of management information system to strengthen financial management has also become the mainstream of financial management in domestic colleges and universities, because the processing of financial accounts involves taxation.

Server system and client access system. The field level mainly completes data acquisition, real-time signal processing, routine diagnosis, enterprise center level monitoring and data establishment. The basic task of the server system is to realize the connection between the client and the server. Data terminal control the program mainly includes the control program of the sensor, the parameter setting program and the AT command serial communication program between the single-chip microcomputer and the CDMA1X wireless module. The dormitory management system based on .NET can be divided into five modules, namely information browsing module, information maintenance module, information exchange module of other functional departments, property management module management and dormitory management module.

Traditional expense reimbursement relies entirely on financial manual review. Financial personnel need to review the travel application form, invoice and other documents for each expense reimbursement. In particular, the review of invoices needs to be reviewed based on their professional knowledge and experience. The theory of process reengineering consists of four parts: first, draw a flow chart according to the existing procedures.

2.2 The DB.velopment of Inclusive Finance in Rural Areas

The system developed in this paper, like other systems, also has permission management functions for related functions. Different departments have different permissions. For example, if it is a student, it only needs to have the query function of related functions. If it is a teacher, then Part of the financial information can be opened to it. With the continuous increase of the development scale of higher education in my country, on the one hand, the education departments at all levels continue to increase the allocation of education funds to colleges and universities. Income is also increasing with the development level of scientific research. On the basis of the network-based remote monitoring system, a mobile phone short message-based agricultural production process data acquisition system can be established. As shown in Figure 1, the system consists of multiple measurement points and a Main control point composition. The information maintenance module can be mainly divided into account management, dormitory area management, maintenance and data information backup and other related functions.

Different functions have different effects. However, only these functions cooperate with each other. Business occurrence, expense reimbursement and expense payment often require independent applications, and the entire expense reimbursement process adopts offline or semi-online processes, so the entire process takes a long time to run. Having huge data information is not the meaning of big data technology. The most important thing is to professionally process the data containing potential information to obtain valuable information. Colleges and universities undertake the important mission of talent training and technological innovation. Using advanced information technology to improve internal management and optimize resources is a necessary way to improve the management level. With the advancement of management reform in colleges and universities, three initial crawling strategies are used to collect user relationship data layer by layer.

Then, a series of data operations such as data extraction and cleaning, edge addition, network construction, and basic network feature calculation and analysis are performed on the collected relational data. The server of this system is managed by the school, which not only ensures the data security of the system, but also provides great convenience during maintenance. When designing the network topology, it is necessary to ensure that its layout is reasonable. Some The computer does not need to be redesigned. College budget management includes complex budget system tables, and there are strict logical relationships between various data, such as the relationship between tables and tables, and the relationship between tables.

2.3 The Multi-Cloud Terminal Stability Enhancement Framework

The system needs to be classified according to the university budget management system, preset basic relationship definitions, and also provide functions such as custom relationship settings. It uses the signaling channel to transmit, and does not need to establish a connection by dialing, but directly sends the information to be sent plus the destination address to the short message service center, and the short message service center then sends it to the final destination. The single-chip computer first determines whether the phone number is It is the number of the monitoring center. If it is, the corresponding operation will be made according to the content of the short message (modify the timing or send a data short message). The main function of the property management module is to carry out regional management of the dormitory, maintain and manage the infrastructure of the dormitory in time, and build a good living environment and living space for students.

In the traditional reimbursement process, the efficiency of financial document review is too low, and the repetitive process when errors occur at the same time, resulting in a long duration of the entire reimbursement process. The three methods of RPA technology and knowledge graph technology divide the optimization design into three parts. The first is the optimization of the credit evaluation of reimbursement personnel, the second is the optimization of the expense reimbursement process, and the third is the optimization of the financial intelligent consulting platform. First, the reimbursement personnel log in to the reimbursement system of the financial information platform through user name, password, and electronic identity authentication. Fill in the reimbursement information, collect and upload the original electronic documents, and submit an application for reimbursement.

The Web server is in the middle layer of the system architecture, and its the function is to respond accordingly to the corresponding request information. The system data includes: system setting data, project setting data, and budget management data. The system setting data includes: annual budget table, user table, authority table, and user authority table. The project setting data includes: total income project setting table, total expenditure project setting table, education expenditure project setting table, unit setting table, unit annual setting table, and motor expense project setting table.

3. CONCLUSIONS

In this paper, GSM wireless communication technology is applied to the basic information collection of process production process, and a wireless measurement system based on NR process information is designed. Diagnose the problems in the expense reimbursement process and analyze the needs of H college expense reimbursement optimization based on user requirements. It can also integrate some special functional requirements of the unit, such as the setting of personalized budget reports, the settings of personalized statistical attributes, etc.; the system can set different subjects and different types of budget tables. The maintenance of the communication network is completed by the mobile company, and the operating expenses are charged according to the amount of data. As a part of the process information network.

4. REFERENCES

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