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Study on the Simulative Financial Management System in ERP Education

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Abstract

The problems of ERP simulative financial management system are that it has rigidified software architecture and have not comprehensive functions. The thesis has analyzed the functions and designed the business processes of the financial management system based on the ERP simulation instructional environment. It has designed the system's architecture of the financial system based on the SOA, which has realized the business processes layer, service layer and data layer of multilayer reuse. It makes the system with loose coupling and flexibility, which is better adapt to college teaching needs.

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1. Introduction

With the rapid development of enterprise informatization, the application of the ERP software in the enterprise is more and more extensive. In the teaching process of universities, ERP teaching simulation instruction system plays a decisive role. The system brings great convenience to teaching process. As a core subsystem of ERP teaching simulation instruction system—financial management system still exists many problems that cannot be neglected in: (1) the system is too complex, therefore, it is not suitable for non-financial

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professional teaching; (2) the functions of the system is not comprehensive and involve only the financial accounting also pay attention to the accounting but ignore the management accounting. Under the condition of changing in teaching requirements, it is difficult to make corresponding configuration to meet the needs teaching. ERP teaching simulation instruction environment of financial management system and other system combined tightly which requires a high flexibility of system structure. In view of the above problem, this thesis will design related functions according to the characteristics of ERP teaching simulation instruction system and integrated with other system under environment of ERP teaching simulation instruction system.

2. The business process analysis based on SOA

2.1. ERP teaching simulation instruction environment of financial management business analysis

ERP sand table simulation instruction teaching system concentrated the overall process of enterprise operating in the system, it relates to the enterprise strategic planning product development, equipment investment and renovation, production capacity planning and scheduling, material requirements planning, capital demand planning, marketing and sales, financial analysis, capital operation, team communication and construction and other aspects^[1]. In the process of ERP sand table simulation instruction teaching system of operating of manufacturing enterprises, financial management is in key position. Financial management carried out to entire process of enterprise operation and every link is indispensable to the participation of financial sector. The financial management activities of ERP teaching simulation instruction environment are mainly include daily financial accounting, taxation department providing financial statements, the daily cash management, enterprise financing strategy, capital operation and risk management, financial system and risk management, financial analysis and assist in the decision-making and other activities.

2.2. Business process modeling

To analysis business process of financial management system of ERP teaching simulation instruction environment, we can obtain basis analysis for building a flexible ERP teaching simulation instruction platform. The main business processes of financial management simulation system includes general ledger management, accounts receivable management, cash management, fixed asset management, financial budget, cost management, etc. in order to make system of business process more flexible, this paper adopted SOA to conduct business process modeling^{[2][3]}, so that the system function and business can be closely complied with each other. On the basis of coarse granularity service we undergo business process modeling, which will produce more concise business. On the basis of service we realize system function that would be more flexible. On the basis of service through the explicit definition, description, realization and coarse granularity services of the business management level, providing a better “traceability” between business model and the realization of relevant system function making the business changes to transfer to system function more easily. In this thesis we only focus on the financial budget management process modeling. The modeling method is IBM’s SOMA modeling method^[4], and SOMA combined the method of top-down, bottom-up and meet-in-the-middle. Through analysis of business field and business function field we work out business model. And based on this we found services and construct service model and through the combination of services to build a business process model.

- The business process analysis

The use of business process of financial budget preparation and audit presented by cases, as is shown in Table 1.

- Service model

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