Research and Development of Logistics Industry Software Development Process Management Information System under Big Data

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Abstract: With the continuous development of the times, the progress of society, science and technology have penetrated into people's daily life. Big data is a new information technology in recent years, its emergence has made software development a challenge, but also ushered in opportunities. Big data technology can make a software in the process of development management to play a role in promoting efficiency, but also make the process of software development more rational and more intelligent. Today we are going to talk about the research and development of logistics software development process management information system under the background of big data. Because people need logistics everywhere in the process of life, and logistics has also made changes under such a large demand. The emergence of logistics software helps logistics to better carry out logistics activities. This paper will carry out in-depth research on the logistics industry software development process management information system from the perspective of big data, and give the corresponding strategies.

1. Preface

With the progress of the times and the development of science and technology, computer software also follows the development. The development of computer software follows the development of society, because it is developed according to people's needs. One of the ideas in this process is the concept of software development process management, which is realized in order to be able to manage the software development process scientifically and to ensure that the functions of software development can meet the needs of users. The reason for the emergence of software development process management is also very simple, with the development of computer software technology, people also have a higher demand for software, so people in order to make the results of software development more considerable, software development process management, this is a winter process, is still constantly improving. The use of modern information technology in the development of software industry is an inevitable trend of software development process management, and it is also a necessary means to improve the management level of software development process.

In the process of computer software development, the process management of software development is inevitable result. It can guarantee the writing quality of software code and improve the qualified rate of software effectively. The management of software development process in the background of big data has attracted the attention of both academia and industry. At the same time, in this background of big data, software development process management also provides some integrated environment, the main function of this integrated environment is to provide software process development. In the process of software development, in order to ensure that the computer software developed and designed can have high quality and high market product competitiveness, the development staff must be the process management of common software development process management to standardize the development of the process management and software implementation process management, software implementation process management.
2. **Software Development Process**

The source of software development process management is a product from the combination of software development management and process management. Software development process management is a kind of information technology rising with the continuous development of computer software in recent years, using software development as a platform, software development process is a kind of technology that will be involved in the process of software development such as software quality, software requirements, software structure and so on. Software development process management is also accompanied by the continuous development of computer network technology, computer software technology and computer database technology. It is a product of the whole scientific and technological era. The foundation of software development process management technology is mainly software development technology. Then it uses the combination of engineering management concept and traditional computer software design industry to manage. Its main purpose is to maximize the advantages of software development, and apply engineering management concept to the process of software development to combine it with traditional software development industry management.

3. **Research and Development of Process Management Information System for Logistics Industry Software Development under the Background of Big Data**

Software development process management can effectively improve the code quality of software developers, can carry out high-quality software products efficient development, but also stable maintenance of software operation, etc. In the background of big data development process management mainly from the following aspects.

3.1. **Standardize Logistics Software Process Development Processes**
In the background of big data, the first thing to do to develop logistics software development process management information system is to standardize the software process development process, at the same time to build a complete software development process system, at this stage we need to do is to complete the software development process management of some of the indicators, while laying the foundation for the subsequent management, in this stage if not improve the various documents and information needed in the software development process will make the follow-up work difficult.

3.2. Application of Management Knowledge to Logistics Software Development

After the first step of the specification we have obtained detailed documentation information, and then we need to do is to use the relevant knowledge of engineering management in the process of software development reasonably, to strengthen the further management of the software development process, at this stage we need to carry out the next discussion, mainly on the specific software requirements involved in the process management of software development, and then to manage all the requirements scientifically and reasonably. In order to ensure the quality of the software development and the market competitiveness, it is very important and a very important step in the process of software development, so we must strictly manage the relevant content and ensure the smooth development of the software. After completing this step, we need to analyze how to evaluate the software process and improve the framework model. After this step, we only need to complete the final part, the implementation details of the software development process detailed planning.

3.3. Evaluation and Measurement

If we have completed the management of the software development process, we have completed most of the work of the software development process management, and the final work is left, that is, to evaluate and measure the quality of the software development process management, to determine whether the relevant knowledge of engineering management and software development management can meet our needs after combining it. If, after evaluation, we find that some of the measures in the software development process are unreasonable, we should improve them in time and ensure scientific and reasonable management of the software development process, so as to effectively improve the quality of software and market competitiveness. It makes the software designed and developed under the background of big data have very good application effect and market competitiveness.

3.4. Development of Logistics Software Development Process Information Management System

The first thing we have to do is to determine the process of development, complete the indicators of software development process management, and prepare the relevant development documents and materials to lay the foundation for the next step. As a result of the previous foundation we need
to do is to further discuss and develop the logistics software development process information management system software requirements, software structure, software quality, required technology, development steps, etc. only after these formulation can we ensure the smooth development of logistics software development process information management system, after this link we do software development process management quality evaluation and measurement, if found any unreasonable details, timely improvement to ensure the rationality of software development process management. Finally, the development process, we need professional developers to do, so the technical level of developers is very important, the first thing developers need to do is to document the logistics software development process information management system framework, when building the framework, they need to consider how to speak engineering management related knowledge into the software, and then according to the previous discussion of the software process software requirements, software structure, software quality, required technology, development steps and other implementation of each function, the implementation process before the evaluation of software quality and market competitiveness. Under the background of big data, the research and development of logistics industry software development process management information system can effectively improve the smooth development of software development process and effectively improve the quality of software.

4. Conclusion

To sum up, modern technology has been continuously developed, and the software industry has also been born with the needs of the society, among which big data technology is a relatively hot new technology in recent years. In the background of big data logistics software development, and in the development of software development process management can effectively ensure the quality of software code writing and high-efficiency software production rate. Logistics software development process information system is mainly to manage and standardize the development process of logistics software, and how to develop logistics software development process information system, what we need to do is to design and develop logistics software development process information system according to the various requirements and quality of logistics software. In the process of developing this system, we need to standardize the development process, prepare all kinds of documents, discuss the needs and technology and quality designed in the development process, and then pass the quality evaluation and market competitiveness evaluation after the development. Under the background of big data, the development of logistics software development process management information system can make the software development process smoothly and effectively improve the quality of the development software.

References


