Analysis on the modern technology of computer software engineering

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Abstract: With the rapid development of modern information technology, the value of computer technology in People's Daily life and learning practice continues to improve, the application of computer software engineering helps to play a wider range of application value, so as to promote the development of enterprises, realize the transformation and upgrading of enterprises, and promote the development of social economy. The rapid development of software engineering helps to provide people with more convenient services, so as to solve practical problems. Based on this, this paper analyzes and studies the modern technology of computer software engineering for reference.

Key words: computer; Software engineering; Modern technology

Foreword

As the key technology to promote social development, computer technology is valued by more enterprises. The transformation of modern technology of computer software engineering is helpful to improve our technology level and promote our international status. However, in actual software engineering operation process there will still be certain obstacles, the relevant technicians should make use of the computer software modernization technology, in order to better solve practical problems and ensure the continuous development of the computer software modernization technology.

1. The characteristics of computer software engineering

The application degree of computer software engineering in life and work continues to improve, which helps to better improve the effectiveness of work. In general, computer software engineering mainly has the following characteristics:

First, flexibility. By their very nature, all types of computers are unique and flexible. During the design of computer software engineering, the designer will take into account the actual needs of users, so as to constantly improve the key points of software engineering and modify the corresponding links to meet the actual needs of users.

Secondly, cooperation. Each system in software engineering has a strong correlation. Therefore, no matter the dynamic environment or static environment, they need to be connected to ensure the coordination between software, improve the overall quality of software engineering, and make the degree of software openness continue to improve, and the scope of application of software engineering can be expanded.

In addition, good reaction ability. In the current era, the society develops rapidly. In order to better adapt to the development of society, software needs to have a good response and perception ability, so as to promote the upgrade and development of software, build a software structure system that meets the needs of society, and promote the development and progress of society.

Finally, pluralism. Computers and the Internet are characterized by strong variability. In the context of the continuous development of science and technology, it is being upgraded and improved. However, at present, software engineering design still has the characteristics of diversity, combining the computer and the Internet to achieve updates and upgrades, to meet the needs of different users.

2. The modern technical significance of computer software engineering

Combining with the analysis of the research status of computer software engineering, it is found that the current domestic computer software engineering needs to be improved, and the technology is restricted by foreign advanced software technology. In order to better cope with the problems, computer software engineering should be combined with innovative research and development technology, and gradually form a technology with modern characteristics. It can be seen that the modern technology of computer software engineering is of key significance to the development of software engineering. Modern technology helps to provide basic strength support for software engineering construction, so as to provide more support for the function construction of computer software based on intelligence and digitalization.

In addition, in the application process of computer software engineering, only by constantly improving the work and promoting the basic characteristics of software engineering can we promote the flexibility and coordination of computer software engineering, better reflect the actual characteristics of computer software engineering, comprehensively promote the overall quality of computer software engineering, and bring the overall performance of computer engineering into play. To provide more quality services. It can be seen that the modern technology of computer software engineering is of constructive significance to the development of software engineering.

At present, there are still many problems to be improved in the research and development of computer software engineering in China, and the relevant development system is not perfect, which needs to use the research results of developed countries. In order to change this problem and improve the overall level of computer software engineering research and development in China, it is necessary to use modern technology to research and develop all kinds of products. The integration of information engineering has become an inevitable trend in the development of the new era. Therefore, computer software engineering should also make full use of more modern technology to realize the connection of network, digitization and intelligence, which will help promote the transformation and development of enterprises, promote

enterprises to occupy more market share and improve economic benefits.

3. The development status of computer software engineering

3.1 The research is not deep enough

Compared with many developed countries, China's research and development of computer software engineering funds are insufficient, the policy support is less, the technology is not advanced. In this case, China's independent research and development of products are relatively few, there is no research and development of products that belong to our country. Due to the research and development work needs a lot of funds and resources as support, under the existing conditions, the social professional research and development institutions and units are relatively few, only a small number of enterprises and capital with the ability to independently develop large-scale computer software engineering. At present, most enterprises can only develop some small software, which can not promote the effective development of computer software engineering. The types of software that are developed are basically the same, but new types of software are rarely created. Therefore, compared with developed countries, China's research and development time will be relatively short, lack of experience, which also leads to the results of research and development can not meet the expectations.

3.2 The application of modern technology is insufficient

In the process of large-scale application of computer software engineering, the society has put forward higher requirements for the functional characteristics of computer software. Under the background of the new era, only by constantly expanding the functions and attributes of software engineering and making use of modern information technology can we better meet the needs of social development. However, in fact, there are few computer software engineering can be combined with modern technology. For the Internet, artificial intelligence and other aspects of the content, the application of technology has not been updated. In particular, some artificial intelligence technology can not be integrated with modern technology, which also leads to the lack of intelligence level of many computer software, and can not produce good results in the process of practical application. In addition, some security protection technology is not applied in place, which also brings more security risks to computer software engineering. If the phenomenon of virus intrusion occurs, the computer software engineering is difficult to carry out effective protection, and can not ensure its normal operation.

3.3 Lack of professional personnel

In the application of modern technology, computer software engineering lacks the corresponding talents as support. However, although many colleges and universities have set up professional practical courses, the personnel training work is not in place, resulting in the mismatch between students' practical skills and job skills. Many graduates are difficult to take a job directly after graduation, and still need to accept systematic training work again. At the same time, there are still a lot of training institutions in the society, will carry out engineering software talent training, but the talent training goal is not combined with the modernization of the training needs, which leads to the shortage of professional computer software engineering talents.

4. The computer software engineering modernization technical measures

4.1 Strengthen government supervision and administration

If the government wants to attach importance to research and development work, it needs to realize the advantages of computer software engineering for social development in advance. This requires the government to do a good job on the basis of correct understanding, put forward more policies as support, and increase the support of the industry. Among them, the government can provide preferential policies for relevant enterprises, shorten the time of handling procedures, and take the lead of the government to help more enterprises obtain capital strength, and set up special funds to improve the enthusiasm of R & D enterprises. Only in this way can the research and development of computer software engineering get more financial support, so as to improve the modernization of computer software engineering and apply more research results to practice.

4.2 Pay attention to technological product innovation work

Computer software engineering products and projects are different from other products, it has a certain particularity. Therefore, in the process of technology research and development and upgrading, in order to better improve the application effectiveness, the relevant research and development technology needs to be put into the market research work, so as to fully consider the characteristics of market operation and development, and realize the technical upgrading and transformation. Only in this way, in order to better achieve the high-quality development of products and services, as far as possible to play the application characteristics of computer software engineering. In addition, the relevant enterprise departments should pay attention to the optimization and upgrading, in the process of product design and product production transformation, constantly improve the production process of products, innovation and development. At the same time, enterprises should also actively introduce modern information technology, so as to improve the level of service increase and improve the overall quality of service. In the process of optimization and upgrading, enterprises should put forward more detailed plans, focusing on improving product quality and service effectiveness, so as to ensure that computer software engineering can play its advantageous value. Specifically speaking, in recent years, some enterprises have developed software automation systems. The application of these systems has improved the working process of enterprises and exerted application value.

The innovation of product technology is very crucial. The computer software and information industry should be combined with manufacturing, engineering and other industries to continuously enhance the competitiveness of products. At present, many computer software industry in order to better meet the development of enterprises, began to realize the digital and intelligent development of the

industry, the use of communication service technology and related equipment, and constantly improve the industrial production process. At present, digital TV and high performance computer are important computer software products. At present, some enterprises can effectively combine big data mining technology with computer software technology, so as to better analyze the data and find the vulnerability resources of the current software. In this case, the mined data resources can be directly used, and this process can play an important role in big data mining technology.

4.3 Strengthening and upgrading the management system structure

The functional application of computer software engineering should have more rich and diversified characteristics. To this end, the relevant enterprises should improve support, increase investment, in order to achieve the upgrading and development of the industry. Among them, the relevant departments should be combined with the law of market development, formulate management and support system in line with their own development, and provide corresponding support for the quality management of software engineering. In addition, enterprises should implement regular upgrades of computer software according to their own conditions, so as to ensure the overall effectiveness of software engineering. In the process of software upgrade, enterprises should pay attention to the management and control of funds, optimize the allocation of scientific energy saving resources, strengthen the practical research in this field, discuss in combination with market demand, strengthen the allocation of resources, based on their own development characteristics, improve the overall quality of software engineering, realize the quality control and management of software, and strengthen the overall quality of engineering. Promote the modern development of technology.

For example, enterprises can develop software tools, build related environment upgrade and optimize software, so as to improve the level and quality of software technology, and provide better external conditions for software product upgrade. In addition, the management of computer software engineering has a greater impact on the utilization of resources. If computer software wants to meet the needs of market development, it needs to rely on a modern management mechanism. According to the development of the market, the software department should formulate relevant engineering management systems to ensure the improvement of the overall quality of software.

4.4 Strengthen the protection of independent property rights

For any industry, the protection of independent property rights is a very important link. In the fierce market competition, the protection of technical autonomy helps to promote the survival and development of software engineering, which directly affects the market competitiveness of computer software engineering. In order to promote the sustainable development of computer software engineering, it is necessary to strengthen the protection of technology autonomy property rights. First of all, enterprises should pay attention to optimize the investment structure, pay attention to the development trend of computer software engineering, and make adjustments according to their own actual conditions. Secondly, enterprises should establish a computer software technology innovation mechanism to provide more support for technical exchanges and promote the upgrading of technology. Finally, governments at the national level should pay attention to the protection of product property rights of enterprises, constantly improve relevant laws and regulations, and strictly crack down on violations of product property rights. At the same time, social media can be widely disseminated through the Internet and television, so that the public can understand the importance of protecting technological autonomy.

Epilogue

To sum up, under the background of rapid social and economic development, People's Daily life and work demand for computers is constantly increasing. As an important industry in China's economic and social development, computer software engineering should constantly improve the level of modern technology under the background of the information age, which requires the continuous efforts of the computer software industry and the formation of multi-party support to promote the sustainable development of computer software engineering.

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