

Computer Software Development Technology under the Internet Economy

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Abstract: With the continuous innovation of Internet technology in China, computer technology has also been developed accordingly. In the computer software development work, the staff used the current advanced Internet technology to develop more high-performance software. In addition, because the software update speed is faster, compared with computer hardware, the software is more applicable, so in this case, a large number of software applications form an advanced Internet software development technology. When conducting computer software development, staff members should make full use of Internet technology as an auxiliary means of computer development to promote the development of the Internet economy.

1. Introduction

With the development of various fields in the current society, various enterprises are gradually developing towards automation and intelligence. Therefore, computer software development technology has received a lot of attention from all walks of life. In order to meet the current diversified software needs of computer software development companies, computer software development companies should innovate their own software development technology according to the characteristics of the current Internet economy era, in order to comply with the current trend of the Internet economy era.

2. The meaning of computer software development technology

2.1 The meaning of computer software

Computer software is a computer application system acquired through software development technology. Computer software is continuously derived from the development of computer technology. People use computer software to solve practical problems or tools to assist in their work. Because of the advent of the current Internet age, the means of people's work are more automated and intelligent. Therefore, people have put forward higher requirements for computer software development technology. Current computer software not only needs to meet the diverse application needs of people, but also adds more automation factors to computer software. In addition, the computer software also includes software that the computer has, such as operating system software in the computer. This kind of software can monitor and prevent the running status of the computer itself and the foreign virus, and provide a good guarantee barrier for the daily work of the computer. In computer systems, application software and system software are an important part of the computer. These two softwares are also the basis for ensuring that users can use the computer normally. Therefore, when carrying out these two parts of software development, the staff must use advanced technology to ensure the normal operation of the computer.

2.2 The development status of computer software

In the process of computer system software development, the key systems of computer operating system and application server system are mainly studied in depth. Because this part of the system affects the normal operation of the computer and the normal operation of the computer functions. Therefore, the staff should strengthen the management of the part of the system software in the

process of computer software development. In addition, in order to make the computer processor and storage run normally, it is necessary to integrate various software and hardware resources in the computer. At the same time of integration, the staff also needs to carry out in-depth operations on the computer's operating system, and adjust the computer software system according to the actual use requirements. Because the operating system is the basic guarantee for the normal use of the computer, the software developer should develop the relevant system according to the user's application direction.

With the continuous development of Internet technology in recent years, embedded development technology in operating systems has been widely applied. As a product of the current information age, embedded technology has been applied to software development in various fields. The embedded technology in the computer operating system mainly combines the software of the computer and the various running devices to form a more intelligent computer operating system. The embedded technology has improved the software and hardware performance of the computer, and has produced good application effects in many enterprises in China, making more enterprises gradually develop towards the intelligent direction. Therefore, software development researchers have put more research into the research of embedded technology software development work. Moreover, there are many successful people in the society who have invested a lot of money in embedded software development technology, so the embedded software development technology will have a good development prospect.

2.3 The importance of computer software development technology

With the continuous improvement of computer software development technology, network technology in the information age is widely used in people's lives and work. The improvement of computer software development technology has also promoted the development of Internet technology. With the continuous updating of computer software development technology, many new network technologies have emerged to promote actual production. Computer software development technology has also met the needs of people's diverse network use. In addition, network development and software development technologies are mutually reinforcing and mutually developed, which together promote the good development of the current computer industry.

3. Computer Software Development Technology under the Internet Economy

3.1 Layered technology

3.1.1 Advantages of layered technology

The current computer software development work is to meet the needs of people's diverse computer use, and to design high-quality, high-performance software products. From the point of view of the software development technology of computer components, the staff can re-establish the construction of the computer software system through rigorous testing, which saves certain software development time to a certain extent. The use of layered technology in the software development system allows the underlying system construction and physical hardware data systems to be interconnected, providing a more accurate general algorithm for computer system operation [3]. Because from the overall view of the computer system structure, there is no strict hierarchical relationship between the computer construction, but the upper layer is in a dependent relationship with the lower layer. Therefore, the use of layered technology in computer software development can make the computer have an internal hierarchical relationship from a subtle perspective, and make the computer system gradually realize the hierarchical Abstract structure of the system design, so that complex computer instructions can pass through various parts. The calculation is decomposed and processed by the underlying software. The computer software developed by the layered technology has strong scalability, which can improve the stability of the computer software running environment to a certain extent. And in the process of running the computer, when the function of a certain layer of

software changes, because of the characteristics of the layering technology, the upper and lower layers in the computer system can be related to each other, thereby ensuring the normal operation of the entire computer system. In addition, the layering technology is also applicable to the reuse of computer software, which enables the software to carry out its own development work according to the actual working conditions, so that the systems at various levels can seamlessly combine the software according to the corresponding interface standards.

3.1.2 Application of Layering Technology in Computer Software Development

In computer software development, the staff uses two layers of layered technology, mainly for software development work for the client and server. The client software provides the user with a detailed operation interface, so that the user can operate according to actual needs. After receiving the user's instruction, the system can send the instruction to the server, and the server then makes an effective connection with the query database, and after logical processing, returns the query result to the user. Two-tier technical processing is generally applicable to a large number of database query operations. However, if the user's operational requirements are outside the maximum data range, there will be cases where the expansion performance is poor and the communication time is long [4]. Therefore, with the development of current Internet technologies, software development staff in order to adapt to the user's data query needs. Through a series of software development technology innovations, the staff developed a three-layer layering technology to develop software. The three-layer layering technology adds an application server to the original layer two layer. The application server can perform higher-capacity data storage and optimization of access information, and can realize the human-machine communication situation of the client in a certain sense, so that the computer operating system is richer in business logic, which is beneficial to the improvement of the efficiency of the computer operating system. Compared with the two-layer structure, the three-layer network technology makes the computer more scalable, and the security of the computer operation is well protected.

3.2 Prototyping method

When using the prototyping method for computer software development, the staff needs to select the appropriate design according to the actual operation of the computer. The prototyping method was used in the final testing phase of computer software development. After the software development work is completed, the staff should be handed over to the user for initial use, and the user will give corresponding opinions to the software development workers according to the actual use requirements and the lack of use process. Workers can also use prototyping methods to develop work based on the user's original software requirements. As the development progresses continuously, the staff must understand the user's requirements for software development in the process of development, so that the next phase of software development work can be rectified. The application of prototyping in the computer software development process can make the performance of the software fully meet the user's network requirements. The quality of computer development is guaranteed while ensuring the normal operation of computer software. In the process of computer software development, the staff can save a lot of input costs for the software development work by using the prototype method. However, this prototyping method is only suitable for some small software system development work. In some large-scale software system development work, most of the staff use layering technology to develop.

3.3 Software reuse technology

3.3.1 Generating technology

In the process of computer software development, before using the reuse technology, the staff should conduct an in-depth analysis of the patterns used in the generation technology, and then generate new programs according to the actual usage requirements of the users, so that they can conform to the application of the generation technology model. [5]. The application of the reusable

mode is mainly divided into two parts. The first is the code pattern. The normal operation of the code mode mainly depends on the runtime environment of the generator. After determining the sTable generator operating environment, the staff will also periodically replace the parameters of the generation period. After that, the Abstract instructions of the operating environment of these softwares are expressed in terms of specific strength. Therefore, the application of the generation technology in the software reuse technology requires the staff to have a high application technology, so that the developed software has a high executable capability. Another part of the generation technology is the rule pattern. The main application feature of the rule mode is to transform the system, so as to implement an effective transformation rule to explain the language, so that the computer instructions become a more operative execution language program, which is convenient for computer software maintenance. This highly operative execution language program has strong logic when executing instructions.

3.3.2 Synthetic technology

Synthetic technology is an important part of software reuse technology in computer software development. The application of the synthesis technology is mainly based on the construction of the core chip for actual operation, and the complete assembly component can be realized inside the computer. In the process of the application of synthetic technology, it is possible to effectively avoid the increase and deletion of software program instructions, and avoid the situation of idealized work. There are three main ways to construct a composite of synthetic technology. The first is the effective connection between computer information, the second is the efficient transfer of computer information technology, and the third is the overall connection and output of information through the pipeline mechanism. This type of connection not only maintains the stability of the working environment of the software, but also achieves a better connection between the software.

4. The development direction of computer software development technology under the Internet economy

4.1 Network development

With the continuous development of Internet technology in China, the current software development technology is becoming more and more networked. Because the network is also a fundamental factor that constitutes the basic functions of computer software. Therefore, the future development direction of the computer is inseparable from the network. In addition, computer software services are gradually developed with the continuous updating of networked connotations, so the networked technology development model is also the guiding direction of computer software development technology.

4.2 Service development

The current era is in an era of information explosion, and the networked information that appears in people's work and life is constantly increasing. Therefore, people are more eager for an automated, intelligent computer software performance. Therefore, according to people's current computer software usage requirements, the staff uses the characteristics of the network to carry out software development, which can provide more high-quality and comprehensive software services for the majority of users. At present, computer software development technology is based on the needs of comprehensive users, and integrates advanced technologies in the Internet economy into computer software development, so that users can experience the highest quality software services when using computers.

4.3 Intelligent development

According to the requirements of the current era, computer software development technology gradually develops software towards intelligent direction, and also provides active and effective

guidance for the development direction of computer software development technology. In order to realize the application of artificial intelligence software in the true sense, the staff gradually became more intelligent in computer software development technology, thus meeting the needs of the modern era.

5. Summary

Computer software development technology is an important part of promoting the development of the computer industry. Therefore, software development staff should base on the characteristics of the current Internet economy era and people's needs, and apply networked technology to computer software development. In this way, the developed software can meet the diverse work and life needs of people and promote the sustainable development of the computer industry.

References

- [1] Liu Peng. Application and development trend of computer software development technology under the Internet economy, Science and Technology Information, 2017.
- [2] Pu Lingxing. On the Application and Development Trend of Computer Software Development Technology in the Internet Age, Computer Fan, 2017.
- [3] Peng Zhiqiang. On the application and development trend of computer software development technology in the new era, Digital Technology and Application, 2016.
- [4] Chen Youfu. Innovation of Computer Software Development Technology in the Age of Internet Economy, Computer Knowledge and Technology, 2016.
- [5] Chen Ke. The development trend of computer software development technology under the Internet economy, Informatization and Information Technology, 2018.