

# The Application and Tendency of Computer Software Development Technology in the New Era

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**Abstract:** The concept of information has begun to permeate and integrate in all walks of life against the drop of the information age, has gradually become an important support for the industry. Meanwhile, the development of computer software has grown explosively. The computer itself has a logical function, which lays a solid foundation for the growth of software development. While software development technology is a united technique and planning method. At the current stage, various development software has become more mature, which provides more favorable conditions for users and programmers, laying a foundation for the development of science and technology in China, and making advantages of computer software prominent. Based on this, the author analyzed and discussed the application of computer software development technology in the new era as well as its tendency in the future, and proposed some views on this topic.

Computer software technology was developed in the 1950s with relatively low application efficiency and large energy consumption in more time, which hardly met the needs of the practical application. With the rapid development of commodity economy and the increasingly growing science and technology, people have paid much attention to the computer software development, and put forward more new ideas. The initial definition of software development means more about the operation of the programs under related rules and operating ways. While with the passage of time, software engineering, design process and operating process are crucial stages in this regard. And the application of computer software technology has become more and more mature till now. In applying computer software, it is necessary to grasp the application methods and the development tendency to give its application into full play, leading computer software development more efficient and smooth.

## 1. Brief analysis of computer software technology

Computer software mainly refers to the application of software to realize the efficient operation with the help of system software and computer software. The ultimate goal is to solve all kinds of problems faced by users by software development, such as software development in management and learning or other developments related to computer itself like software maintenance, and software supervision. They are fully utilized to help users resolve all problems, meet their requirements and play a part in the practice. Both the application of computer software and the application of system software can provide good platforms for users, create sound operating environment, and simplify the human work. In a word, people give computer software full play by means of computer in the daily life. In the process, computers have definitely leave rational space for the software operating, on which users solve various problems in the work by running computers. This proves that, software is an important component of the internal computer, as well as an important auxiliary tool in the work.

## **2. The discussion about the current situation and its significance of the application of computer software technology**

### **2.1 The current situation of the application of the computer software development technology**

Computer was invented in the 20th century, after that, it has attracted much attention. The rapid development of computer technology has changed social development, which brings convenience for production and life, improves living quality, even transforms ideas of people. In addition, the application of software technology has injected momentum to the growth of computer technology. Currently, the rapid rising of software and the expansion of software implies the rising of software industry in China.

The output of China's software industry accounts for a large part in the world's total. Particularly after the financial crisis in the 2009, many software manufacturing enterprises had to transfer their market focus from abroad to domestic market in order to reduce the negative impact brought by financial crisis. This step promotes the development of information technology (IT) of China in some degree, expands the industrial chain, and increases the demands for talents, laying a solid foundation for the development of talents in the field. And accordingly, the number of talents with high education background is increasingly growing [1-3].

### **2.2 The importance of computer software development technology**

The advent of computer software technology has promoted the development of information technology to some extent. And computer software development technology is the core of the software engineering, being of high practical significance. The enhancement of the Internet technology makes the network remote control and internet support possible [4-7]. Therefore, the development of computer software technology will integrate the development and coexistence. By use of computer software, computer network has resolved the conflicts between the demand for computer application and its development from the root. On the one hand, the computer software has improved the safety and efficiency of application, on the other hand, in face of more restrictions and limitations, software programmers will face more pressure in the development.

## **3. The application of computer software technology in the new era**

The target of computer software development technology in the new era is to offer more convenient and efficient services for people. Only by tapping into the potential of software development technology can the advantages of software application be fully demonstrated to serve for people.

For instance, two different computer software can be applied simultaneously: Web+Xml+Active and VB6.0+Access in the computer. In this process, it will be easily found that the computer system applies the Microsoft version, and that the latter has been installed in the computers for effective operation, showing strong compatibility. However, for the former software, browsers or appropriate modules should be installed on the computers to ensure the effective operation. Thus, the former software lacks compatibility. [8]-[10]

If technicians install the client-side of the above two software in the computer directly, after a period of using, it can be found that, the installment and application of the second system is more scientific, and shows more stable performance in the operation with convenient use instead of redundant restoration or operation for the second time. Given such strong points, software users will of course increase. To some extent, the running rate of the client side will reduce. In order to solve such problems, technicians should make timely adjustments suitable for practice. The installment and operation behaviors of the former software application will be restricted by multiple factors like browser or its version, bringing more limitations and inconvenience for the customers, causing the number of the users of the former software to decrease.

It can be concluded from the above cases that, the computer software is developed for people, hence, the work and responsibilities of software development technology should be clarified to

make programmers know well about their role and value and improve overall qualities. They should not only strengthen professional abilities but professional ethics. In developing software, programmers should put people first, devote all energy into the development work, enhance the validity and sustainability of the software development, and bring more convenience for life. [11]

#### **4. The development tendency of computer software development technology in the new era**

##### **4.1 The networking tendency of the computer software design**

The advent of network era makes people attach much importance to the application and development of computer software, and integrate the Internet with the software technology. Under the rapid development of the Internet in China, the Internet has served as an important channel to maintain contact with the world. Therefore, practicality of computer software and its development work must keep pace with the development of the new times to make development of computer software become more modern and intelligent. What is more, technicians should learn about the tendency of the software technology on the Internet, follow the networking tendency, which will be conducive to the upgrading and innovation of information technology.

##### **4.2 The servitization tendency of the computer software design**

The servitization of computer software design means that the software should serve for people and offer quality serves. To comply with the development tendency of the time, and meet the needs of people, a variety of software pop up, which brings convenience for life and enhance the living quality. And the demand of much quality software exceeds its supply, offering opportunities for outlaws. They hope to gain economic profits by pirated software. However, most pirated software fails to meet the needs of users. Aiming at this problem, technicians begin to summarize people's requirements and hope to infuse innovative ideas into the development of software to make it as the driver. And they gradually summarize more specific data for design to give the software products more personalization and humanization characteristics. [12-13]. In order to achieve these goals, developers of software shall shoulder their responsibilities, put customers as the majority of the service objects, adhere to the goal of sustainable development to inject more impetus to this industry.

##### **4.3 The opening tendency of the computer software design**

There is a latent demand for software development, that is, do not stick to tradition, but consider from long term and sustainable development. The developers should make innovations and reform of the software development technology with open and advanced perspective, improve the development means in the practice to make the development more efficient. The openness and long-term tendency of computer software development are proposed for the source code (SC). The SC should fulfill the requirements of the standardization, solve all problems in the development timely, actively communicate with and learn from other successful technicians, make the implementation of software development more scientific and deep, improve the quality of software products and ensure its performance.

##### **4.4 The intelligent tendency of the computer software design**

With the increasing of requirements for software development technology, the development is deepening at the same time. Some software development enterprises, in order to fulfill the needs of people, start to realize the significance of intelligent and humanistic development idea, attempting to make breakthroughs from the innovative scientific and technological development.

##### **4.5 The development tendency of computer software development technology**

The computer software development technology will follow the networking tendency in the near future. As computer software regards the Internet as the major support, the networking is the dominant direction of the application and development of software, which will provide quality services for software development on this sound platform. And computer software development

technology will promote the growth of network, so it can be known that networking will be one of the development tendencies in the future development of computer software. [14]

Furthermore, computer software development is people oriented, thus, the application of software technology should embody its serving nature, offer all-round services, introduce advanced management concept and apply cutting-edge techniques to provide quality services.

Finally, the intelligent development and people-first idea is a necessary tendency in the computer software as the inevitable direction and basic principle. Therefore, the artificial intelligence must be the major tendency in the computer software development in the following years to ensure the improvement of production and living quality.

## 5. Conclusion

In conclusion, since the 21<sup>st</sup> century, the information technology has witnessed a rapid development. With the changing of time and the progress of the society, people begin to shift their development ideas, pay much attention to the significance of the computer technology application. Meanwhile, they have found that, only by integrating computer and software technology can the service function of computer software be fully displayed and applied. In the process, the work of the computer software development must be put into practice rather than standing still. Therefore, technological means of software development must be upgraded and improved from a diversified perspective, research and development, as well as design must be strengthened to promote the development of computer software and inject vitality into the social development.

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