Application Research of Computer Application Technology in Engineering Project Management

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Abstract. In the engineering project management process, through the use of computer technology, can improve the enterprise management of the comprehensive benefits of engineering projects. This paper first describes the connotation and status quo of project management and the important application advantages of computer technology in project engineering, and discusses the application strategy of computer application technology in project management for the reference of readers.

Keywords: Computer Application, Engineering Project, Network Technology

1. Introduction

With the development of information technology, computer technology has been widely used in various fields. In the process of engineering project management, computer technology can effectively improve the management quality of engineering projects and realize the sustainable development of enterprises [1-3]. The computer technology used in engineering project management process is relatively complex, mainly involving network technology, multimedia technology and engineering project management software.

2. Connotation and status quo of project project management

2.1. Connotation of project management

Project management refers to the use of diversified management mode and construction technology for construction, to ensure that the organization and planning of project works are more standardized and coordinated, and a unified management mode is formulated. The management work of project engineering has obvious particularity. It occupies a very important position in the construction work of project engineering and is related to the actual quality of the whole construction project. Project management involves a wide range of fields, including many complex construction contents. In construction projects, project managers must manage the investment unit, construction unit and construction unit well, including the construction schedule and quality of the project, which are all within the scope of management work [4-6]. Only by doing a good job in project management can the overall construction quality of the project be improved and its economic benefits be guaranteed (FIG. 1 Informatization improves the level of enterprise management).
2.2. Problems existing in project management

In project management, the most important two aspects are construction drawings and construction. Project engineering involves a lot of document management, including project design drawings, construction drawings, construction technical schemes, construction material inspection data information and project plan change documents, such as project document number is larger, content is complex, because the paper document is more, save the project data work difficulty increasing, if there is a project data loss situation, can lead to the overall construction quality and efficiency of the project is affected by the serious.

3. The important application advantages of computer technology in project engineering

3.1. Improve the project management level

The management characteristics of project engineering are large scale, long period of construction and relatively high investment risk. The application of computer information technology can effectively optimize the original management mode of the project, improve the management quality and construction efficiency of the project, and comprehensively improve the overall management level of the project. Project managers must master the application of computer technology, scientific application of computer technology, in order to efficiently process project data and information, ensure the accuracy of data and information, improve the overall quality and efficiency of project management.

3.2. Reduce project management problems and defects

The construction amount of the project project is large and the construction scope is wide. If the manager wants to comprehensively manage the specific implementation of the project project, he must make good use of the computer information technology and do a good job in the application management in the actual construction, so as to effectively solve the problems and defects in the project project management. Analysis of the overall situation of the project, project management and computer technology are very closely linked, therefore, managers must realize the important role of computer technology application, the computer technology into project management work, reduce the problems in project engineering management defects (figure 2 intelligent analysis was carried out on the project).
4. Computer application technology in engineering project management

4.1. Network technology

Project management involves a lot of working procedures, and it is difficult to ensure the accuracy and integrity of data and information in the process of project management. In the current process of project management, great attention should be paid to economic and social benefits, especially those related to project quality, contract investment, project efficiency, project cost and other aspects. Among them, the network technology should be reasonably and scientifically applied in the process of project management, and the network technology can help solve the problems with more risks and complicated procedures quickly. By strengthening the rational application of network technology, the connection between engineering processes can be enhanced step by step, and the information management efficiency and management quality can be coordinated and complementary, so as to ensure the smooth completion of engineering projects. At the same time, for the current users, government agencies and design units of construction units, it is necessary to actively participate in the project management work. In order to ensure smoothly and implementation of the project, the need to strengthen the effective communication and exchange between each big unit work, especially the managers need to make full use of network technology to establish related to project management platform, such ability can let each department and each big unit through the platform to realize information sharing, good at the same time also can communicate by discussing job security implementation of rationality and scientific nature of the project, the engineering project management to carry out the process of the existing problems, improve project management efficiency and management level, ensure quality of engineering project management. For the current relevant staff, they can also fully understand the actual progress of the current engineering project by using the project management platform, and at the same time be able to do a better job in information consulting services.

4.2. Multimedia technology

In the current process of project management, relevant staff should be able to strengthen the extensive application of multimedia technology. Through the application of multimedia technology, improve the quality of project management level. The application of multimedia technology mainly integrates multimedia technology and computer software together, so as to make the working procedure and components in the engineering project be fully displayed, and at the same time make the engineering project management change from the traditional static management to dynamic management. At present, in the process of most engineering project management in China, relevant staff have had a relatively correct understanding of multimedia technology, and increased the investment in facilities and funds in multimedia. However, in the process of practical application of multimedia technology, it
still depends on
However, there are many defects and problems. On the application of multimedia technology in
process of software development work is one of the important and difficult contents, this is mainly due
to the current in the process of engineering project management involves the management system
itself is complex, and project management process of many uncontrollable factors has provided
significant influence, so lead to software developed by the serious lack of practical and scientific.

4.3. Engineering project management software
In the current project management involves the comparison of the content of the complex, at the same
time, the difficulty of the project management also is bigger, just on the way for all kinds of
transaction processing will not only lead to a large number of financial and material resources, human
waste, management with low efficiency and at the same time, management is difficult to achieve ideal
effect, is not conducive to the project is completed. So, in order to effectively improve the quality of
engineering project management efficiency and management, to each big enterprise to develop more
targeted software, to project management personnel more smoothly to complete the plan adjustment,
data calculation and drawing work, at the same time also can according to the site construction progress for all kinds of equipment to
make full use of resources, ensuring project quality and effect. At present, through the application and
development of software in the process of engineering project management, on the one hand, it can
greatly reduce the cost of engineering project construction, on the other hand, it can effectively
guarantee the implementation schedule of engineering project, and promote the overall improvement
of project management level and management quality.

5. Application strategy of computer application technology in engineering project management
Of computer application technology in project management should be able to bring many benefits,
compared with the demand of people at present stage, expanded its application to all aspects of social
production and people's life, at the same time, the related research can be further promoted, thus
pushes forward the development of the enterprise, eventually bring the optimization of economic
structure. More and more attention has been paid to the application of computer application
technology in engineering project management. If it is not perfected and improved, it cannot play its
due value and significance in the information-based social environment.

5.1. Strengthen the design and optimization of computer software
For the related problems of engineering project management, the computer software system
corresponding to the actual project can be designed. In the software system, attention should be paid to
the management setting of engineering materials, that is, to make it easy to find and modify materials.
Pay attention to the project progress management setting, that is, the staff can timely supervision of the
project progress; Pay attention to the management setting of engineering statistics, that is, the ability to
view all aspects of data in real time. In addition, it is necessary to update and update the computer
software in time to avoid the problem that engineering project management tools cannot be widely
used because they are not fully Chinese. Attach importance to computer security management,
strengthen the importance of information security of engineering project management, improve the
level of computer management technology and management, to ensure the security of computer
operation.

5.2. Regular maintenance and management of computer hardware
In the project management, attention should be paid to the maintenance of computer hardware, the
maintenance of the computer should be reflected in the daily use of the maintenance, can not wait until
the failure to repair, otherwise it will bring economic losses and waste of resources. It involves specific
measures, on the one hand to ensure the dry, constant temperature of the external environment, on the
other hand to pay attention to ensure the optimization of the operating environment during use, so as to
reduce the loss of the computer, make its operation more stable. At the same time, increasing the use of hardware facilities personnel professional training and standardized training, link and process aspects of management, avoid operation management is not specific, scheduling, not detailed problem, only for computer hardware maintenance and management problems, to improve the efficiency of the engineering project management and information processing level (FIG. 3 on a regular basis to computer maintenance).

Figure 3. Maintenance of the computer on a regular basis.

5.3. Improve the basic skills and quality of project management personnel
Enterprises and units should be committed to training professional engineering project management talents and related computer talents, whose basic skills and quality are the premise of smooth project progress. The complexity of the project management decided to raise the level of distribution management technology and management, professional training of management personnel and standardize the training and the cultivation of professional personnel for the development of related technology increasing investment, so as to let the computer application technology is widely used in all aspects of the construction project management in our country, make the management more orderly and efficient. In addition, it is necessary to improve the practical ability of managers, cultivate their ability to deal with emergencies, reduce losses caused by emergencies, and avoid hidden dangers in the management process. Only in this way, can the project management level and the ability of standardized management and practical application be improved.

6. Conclusion
To sum up, in the process of project management, the project management can be optimized through the use of computer technology. At the same time, in order to improve the quality of computer technology application, the design and optimization of computer software can be strengthened, the maintenance and management of computer hardware can be carried out regularly, and the basic skills and quality of project management personnel can be improved to promote the overall development of the enterprise.

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