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PROBLEMS AND FEATURES OF IT-PROJECT MANAGEMENT IN MODERN CONDITIONS

With the rapid development of science and technology and the advent of the information age, IT projects are becoming increasingly complex and expanding in scale, involving more and more fields and stakeholders. The emergence and popularization of mobile applications, as well as cloud computing and big data, artificial intelligence and other new technologies have brought unprecedented challenges and opportunities to IT project management.

First of all, the explosive growth of information volume not only makes project requirements more complex and changeable. By 2025, it is expected that connected consumers will interact with digital data every 18 seconds on average (5,000 interactions per day) [1, p. 127]. Project teams will need to process and analyze large amounts of data to better understand project progress and identify risks, optimize resource allocation, etc. This data-driven project management approach not only requires project managers to have strong data analysis and processing capabilities, but also requires the project team to establish an efficient data collection and sorting mechanism to ensure the accuracy and reliability of the data.

Secondly, another problem with modern IT project management is resource constraints and uncertainty. As the complexity and scale of IT projects continue to expand, the resources required for

the project (such as manpower, time, funds, etc.) are also increasing, and these resources are often affected by various constraints and uncertainties. For example, the project team may face problems such as insufficient human resources, time constraints, budget cuts, etc., which may have a negative impact on the progress and success of the project. Therefore, project managers need to have good resource allocation and risk management capabilities, and be able to flexibly adjust the project plan according to actual conditions to ensure the smooth progress of the project.

However, modern IT project management also presents some new characteristics. With the popularization and application of mobile Internet, the average annual growth rate of mobile traffic will reach 60-70% in the next five years [2, p. 90], which has caused changes in the delivery methods and delivery cycles of IT projects, such as the frequency of website updates and iterations. Speed up, shorten the release cycle of mobile applications, etc. This requires project managers to be able to flexibly respond to rapidly changing market demands and user needs, adjust project plans and delivery methods in a timely manner, and ensure that projects can be completed on time, quality, and quantity.

Another distinctive feature of modern IT project management is that cross-domain and cross-industry collaboration has become more common. The widespread application of cloud computing, big data, artificial intelligence and other technologies makes IT projects no longer limited to traditional technical fields, but involves more industries and fields, such as finance, medical care, education, etc. This requires project managers to not only have a deep technical background, but also have cross-field and cross-industry collaboration capabilities, and be able to effectively communicate and coordinate personnel from different departments and fields to ensure the smooth progress of the project.

At the same time, modern IT project management also focuses on the concepts of agile development and continuous improvement. The traditional waterfall development model can no longer meet the needs of modern IT project management, and the agile development model has received widespread attention and application for its flexibility and rapid response capabilities. The share of agile projects

in the entire project is steadily increasing (from 9% in 2010 to 25% in 2019) [2, p.95]. The adoption of new project management and delivery models such as agile development methods, continuous integration and continuous delivery can better adapt to rapidly changing market demands and technical environments. These new models also require project managers and teams to be more flexible and adaptable, and to be able to quickly respond to changes and challenges in the project.

Finally, it is worth mentioning the digital and intelligent trends in modern IT project management. With the development of big data, artificial intelligence and other technologies, project teams can use these advanced technologies to improve the efficiency and accuracy of project management. For example, through data mining and analysis technology, project managers can better understand project progress and risk conditions; through intelligent tools, project managers can automate some tedious tasks and improve work efficiency. These digital and intelligent means help project managers better cope with the challenges of modern IT project management.

To sum up, modern IT project management faces challenges such as complex and changing requirements, resource constraints, and uncertainty. It also presents new characteristics, such as cross-domain and cross-industry collaboration, agile development and continuous improvement, and digitalization. and intelligence trends. In order to better cope with these challenges and seize opportunities, project managers need to continuously learn and improve their capabilities and skills, such as data analysis capabilities, resource allocation and risk management capabilities, cross-domain and cross-industry collaboration capabilities, agile development and the concept of continuous improvement and digital and intelligent means, etc.

At the same time, the project team also needs to establish an efficient data collection and sorting mechanism, flexibly respond to rapidly changing market demands and user needs, and focus on continuous improvement and digital intelligence practices to ensure the smooth progress and successful completion of the project.

References

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