

# **The research of XML-based report in project management system**

*Fangxia Zhang<sup>1,2</sup> Renjin Zhang<sup>1,2</sup>*

*1.School of Mathematics and Computer Science Guizhou Normal University Guiyang, China*

*2.Research institutes of Multimedia CAI of Guizhou Province, Guizhou Normal University, Guiyang, China*

*Zhangfangxia0812@163.com*

## ***Abstract***

*Project management system is used for managing information of all projects, tracking the progress of the projects, providing projects summary information and affording decision-making services to leadership in order to achieve the sharing of project information and scientific management. Reports are an important tool for project management, and its purpose is to help managers quickly grasp the raw data of the basic elements and relationships, this is useful for making effective management decision.*

*The methods of generate traditional reports is relatively fixed, once the system development is completed, the format of report is fixed, users neither change the format according to actual situation, nor change the format according to Personalized style. When the statistical content or format changes, we need to modify the code, this restricts the development of project management.*

*At present, the XML technology (a subset of extensible Markup Language) is one of popular technologies, it suits for describing semi-structured data as report. Reports based on the XML and the Internet can be a very good combination, the ASP.net language is cross-platform object-oriented programming language. The combination of the two is the unique superiority to the management system in its report development. This article carries on some beneficial explorations on the thinkings and run way of XML-based reports.*

*First of all, we propose the development program of XML-based dynamic report. This provides users greater flexibility in the generation of report, and meets user's needs of report. Regarding on alterable inquiry condition and the need of variable report form, we discuss how to integrate Office and the automated function, and take it as the front-end of system. We also analyze Word and the Excel object model, propose dynamic reports scheme based on XML description and the Office automation technology, and we also utilize it in the project management system which implement variable forms of project summary report.*

*Secondly, we design and implement the HTML format conversion module. This module research on the rule of transformation between XML-based report and the HTML form report. And gives the XML form report element type and the HTML form report element type corresponding to the element type conversion table.*

*Hence, using the characteristics of XML technology, such as data integration from different sources, the local computing and processing and diverse display of data. This kind of report may implement transformation from HTML report---XML report ---Office report in the project management system.*

*Key words: Project management system XML-based dynamic report HTML report Office report*