Tool Support for Requirement Management

in

Global Software Development

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ABSTARCT

Requirements Management (RM), being communication and collaboration intensive activity, becomes hard to manage in Global software development (GSD) where teams are confronted with global barriers such as distance, culture etc. Without Tool support it is not possible to manage requirements in distributed environment and there are some commercial tools available that support RM in GSD. In this research most widely used tools, such as DOORS XT, RequisitePro, and CaliberRM etc. that support RM in GSD are evaluated by collecting the information about the tools from different White papers and data sheets. Important limitations of these tools such as inability to support effective communication process, absence of coordination facilities, etc. are explored in this study. Therefore we propose new tool that supports the process of RM in GSD and is called Global Requirement Management Tool (GRMT) to overcome the limitations of the existing commercial tools. A comprehensive specification of GRMT based on IEEE standard is a part of this thesis. At the end we have described the components of GRMT and its architecture as well.

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