

Online Bug Tracking System

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Abstract - Many open sources, free and commercial bug tracking tools have been developed and are currently under development. There are number of issues are related to software projects are daily increasing and the developers are started to use bug tracking systems in that order to manages the bug reports. The industry needs that the criteria to select the best system tool among the available set of system tools which will helps to fix and track the progressive report of bug fixes. While, collection of useful information from the large and not organized set of there reports is still difficult problem because there are varios bug tracking systems are provide the data via many resources like web interfaces. We use Jira, BugZilla, Trac, Mantis, BugTracker.Net, Gnats and Fossil are used for afterwards comparative study. We try to present this comprehensive classification criteria to manage the reviews for available tools and propose a new modified tool for the bug tracking and reporting system. It also helps in reporting the bugs which are founded by that process, assigning the bug to the developer for monitoring and fixing the progress of bug fixing by various graphical/charting facility and status updates. It also providing the reliability of bug prediction and tries to find the bugs for complexity measurements, and allows to distributing fixes to users.

Key Words: Bug report, Bug tracking, Resolution of bugs, Classification criteria, Machine learning techniques, Reliability assessment, filtering, Report generation.

1. INTRODUCTION

The main purpose of this project Bug Tracking System project is to deal with providing online support to the software engineers who are facing the bugs or errors in software technologies. This project can maintaining project details, developer details and tester details. Bug Tracking System is the system which enable to detect the bugs. It does not find the bugs but provides the full information regarding bugs detected. Bug Tracking System allows the user of it who wants to know about a provide information to the identified bugs. The engineers develop the project as per client requirements. The tester will identify the bugs in the testing phase. Whenever the tester facing number of bugs then he adds the bug id and information in the database. The tester informs to project manager and developer. The bug details in the database table are accessible to project manager and developer. When a

client puts request or orders for a product to be developed. The system/Project manager is responsible to adding users in the Bug Tracking System and assigning projects to the users. This project provides bug information includes the bug id , bug name, bug priority, project name, bug location, bug type. This all processes are continuesly executing until all the bugs are resolved in this system. This system also able to help for bug report is sending to the System/project manager and the developer as far as the bug is getting identified. It makes easy to anyone who really needs to know about the bug can learn of it soon after it is reported.

Bug Tracking System plays an main role in the testing phase. But it supports assigning projects for the developer, tester. This Bug Tracking System maintaining the different users and it provides separate environments for project manager, developer tester.

2. LITERATURE SURVEY

Current bug tracking systems, user do not effectively elicit all of the information needed by developers. Without this information to resolve bugs form the given system software. To implement it we design the new technique which is implementing online process. From that user can able to resolved bug quickly. It depends on the amount of data is present to perform the bug tracking software. If data is less then bug can be track quickly as compare to the huge or more amount of data. It depends on the variations of the program code.

To make the implementation of bugs more securely and perform fastly, We working the bug tracking system in four ways. Which are Tool-centric, Process-centric, User-centric and Information-centric. In Tool-centric it can helps to reduce the burden of information collection and provision. In Process-centric it focus on administration of activities related to bug fixing. In User-centric, it includes both reporters and developers to providing information by the user to be used to resolve the bugs. In Information-centric, it

directly focuses on the information providing by the reporter. Online Bug tracking system is embedded with tools such as CUEZILLA that provides the real-time feedback on the quality information provided and what can be added to increase value.

To remove the duplication of the bugs N. Jalbert and W. Weimer proposed a system that automatically deletes duplicate bug reports and saves the time. They applied surface feature, texture semantics and graph clustering to detect duplicate bug reports. There was eight percent reduction in the bug report caused due to filtering of duplicate bugs. Some systems like Bugzilla, Mantis and Trac etc. provides the open source bugs tracking system but they not uses this technique. So, This technique provides the extra feature for user to enhance the software quality.

In our work to support and implement all types of datas and codes we uses five open source tools such as Flyspray, Jtrac, Mantis, phpBugTracker and Webissues are uses. Comments, create graphs, customized theme, customized workflow, dependencies, email notification, export files, failure description, file attachments, history view, multilanguage support, reminder, severity, status and version are the features considered for the analysis of the tools. These tools can manages there bugs through their life cycle, for making initial report to implementing final resolution.

3. PROPOSED SYSTEM

Based on the survey we have understood that the system will handle structured data including user information, login information, data code information and reports. The system stores data in MySQL database cluster by the use of Web interface in Thrift and after that it stores data in database server by database server and Web server.

For training purpose we use admin/user information and we develop online bug traking system for peoples. Testers and Developers can check their waiting time by using this system and thus can reduce their frustration.

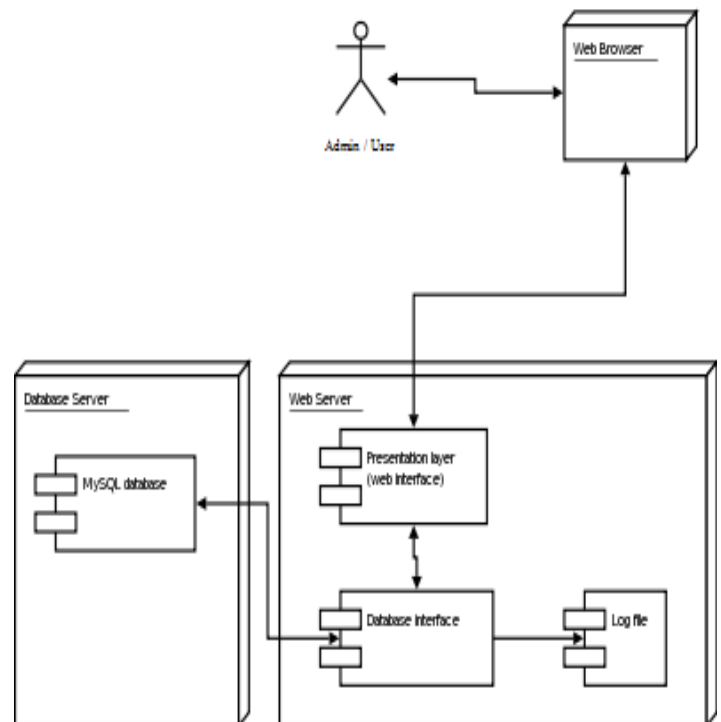


Fig -1: Diagrammatic representation of the proposed system.

4. CONCLUSION

In this paper we have reviewed on the technologies which are being used for finding and improving bug tracking system. further we have introduced different techniques used to implement them. Present methods include database server,SQL and admin information. Later on we have compared the different techniques used by researchers in their systems, such as Flyspray, Jtrac, Mantis, phpBugTracker and Webissues, storing of structure data into the database etc. This comparison will help us in building our system more convenient and useful. From the research we have proposed the system which will predict time required for particular task.

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BIOGRAPHIES



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