

Online Defect Tracking System

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Abstract—for projects that rely on empirical process control and deliver frequently working versions of software, developers and project managers regularly need to examine the status of their software quality. This study illustrates that simple goal-oriented changes or extensions to the existing data of projects' respective defect tracking systems could provide valuable and prompt information to improve their software quality assessment and assurance.

Keywords— Defect Tracking, Accessing the system from anywhere, Repository of defects

I. INTRODUCTION

An Online Defect Tracking System is a software application that is designed to help quality assurance and programmers keep track of reported software defects in their work. It may be regarded as a sort of issue tracking system.

Many defect-tracking systems, such as those used by most open source software projects, allow users to enter defect reports directly. Other systems are used only internally in a company or organization doing software

development. Typically defect tracking systems are integrated with other software project management applications. Having a defect tracking system is extremely valuable in software development, and they are used extensively by companies developing software products.

In a corporate environment, a defect-tracking system may be used to generate reports on the productivity of programmers at fixing defects. However, this may sometimes yield inaccurate results because different defects may have different levels of severity and complexity. The severity of a defect may not be directly related to the complexity of fixing the defect. The Online Defect Tracking System is implementation of defect life cycle. In this system we aim to create an online system which would cover the various defect statuses and their storage. The other part of the project would be to create an admin panel which would take care of creation of projects, user creation, user access privileges, removing of projects and users, etc in the tool. This system can said to have been inspired from leading test management tools used in market but redesigning them in a cost effective way along with cutting down the features which are not related to test management.

II. SYSTEM FUNCTIONALITY[4]

Figure 1 explains overall functionality of the system along with different set of users involved.

- **The Developer**-The Developer will develop the module and deploy it to the team lead. He modifies the module having defects and produce notification for the fixed modules
- **The Tester**-The Tester will test the module developed by the developer. He upload the test scripts and mark tests as pass or fail.
- **The Team Lead**-The Team Lead will monitor or change the status of the defect. It will assign the module to the developer. It will close the defects
- **Manager**-The Manager can add the project and can remove the project. He can add or remove the users working on the project.

- **Admin**-The Admin can create or remove the project users. He can assign the users to the project

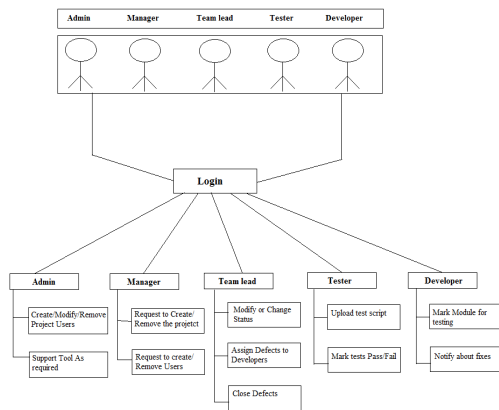


Figure 1 Online Defect Tracking System Users

III.ADVANTAGES

- Less human efforts.
- Remote access.
- Easier up gradation and maintenance of the system
- Automated email subscription.

IV.SYSTEM FEATURE.

Tester, Developer, Team leader, Project Manager can have access to his/her account with the help of a username and a password. After logging in he/she can view the information related to the access rights. The Tester, Developer and Team leader has the facility to verify all the information related to their accounts. Similarly they have their own functions like Tester can test and Developer will develop and notify and Team Leader will manage and monitor defects.

The back end of the system will have a database which is intended to store, retrieve, update, and manipulate information related to the system which includes:

- Personal Details
- Project Details
- Defect details

When a user logs into the Online Defect Tracking System using internet, the system will check for validity of login.

This system provides a facility to create multiple projects inside the tool. This project enables the effective management of defects and communication with related members for each project.

V. CONCLUSION

This project will involve online defect tracking throughout the defect life cycle. This comprises as the main aim of the project.

This project would be deployed on a web server and used by a web browser. However the web server used would be capable enough to demonstrate the concept of the project with limited users and projects created in the tool

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