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System of Monitoring Bugs

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Abstract: ***System of Monitoring Bugs is a software application that can be accessed through out an organization .It is an web based code which runs on web portal. A bug might be in design or in basic code large amount of bugs might be in system development. It is not that easy to manage bugs in simple word documents or keeping the whole thing in brain so in order to keep track of software bugs in their work, a major component of System of Monitoring Bugs is database. As System of Monitoring Bugs is written uses java servlets and java scripting language which works with pre- requisites MySQL database and webserver ,it can be installed on different operating system such as Windows and Linux. Every bug its related changes are systematically recorded in web based system So the application is more scalable. This method is handled with security measures like granting admittance only to specified groups and permitting authorized members to modify the process .***
Key Terms: Bugs, Bug priority, Web based application, Error

I. INTRODUCTION

System of Monitoring Bugs is an ideal solution to track bugs of a product ,software or an application that allows communication among teams and make the project bug free. Online System of Monitoring Bugs allows group of developers to keep track of bugs in their product effectively with accurate results. A bug in software project may be inevitable let it be any kind of product . A software bug is an error; fault or mistake which produces unexpected results ,a bug may raise from mistakes made by people either in development or while designing .After the arrival of each bug in system may have an priority value assigned to it, based on the overall importance of bug. System of Monitoring Bugs allows you to carry out four important tasks finding bugs, reporting bugs, about bug , and application maintenance . System of Monitoring Bugs is designed to find quality assurance of a product and team members will continuously keep track of reported software bugs in their work.

It is an open source software that allows users to enter their product related bug reports directly, the System of Monitoring Bugs maintains different environments for manager , developer and tester . Admin assign bug to a person while assigning a bug he or she is provided with a detail bug report which include bug id, screenshot , description ,project name , kind of application etc.. later it is submitted to tester with a bug report. Other than assigning admin perform other actions like adding or removing users , projects details, bug priorities, status about bugs etc.. finally resolved bug information is stored in database with unique bug id for further usage. Thus System of Monitoring Bugs make it easy to keep track of bug and its resolving status.

II. LITERATURE REVIEW

Software development projects faces large no of challenges. Most common challenge is defects or bugs found in project . In software terms bug is an error, flaw, failure or mistake that produces unexpected results .Thus presence of bug may lead to fail in quality of product .Quality problem may effect in customer dissatisfaction sometimes lead to project failure. Bug or error is not an accident ,it means that something has not worked as planned , bug Tracking is an solution to track, identify , and resolve bugs within an application and make the system run properly. The main objective of System of Monitoring Bugs is to improve the quality of software product ,it is very common that newly developed software packages may likely to have bugs and these bugs are inevitable. when a bug arises it can cause all sorts of problems and make the system work incorrectly.

A useful tool is required to ease the situation stated above . Development team needs an systematic approach for tracking bugs with all information about them; such tool is termed to be an System of Monitoring Bugs . previously, some users report bugs by emails to technical department as emails are scattered around email applications, developers accomplish manual bug tracking through email, but the approach seems to be a tedious process for most of the developers . so structured way of analyzing small number of bugs is use of spreadsheets program ,like Excel. Spreadsheets are commonly available tools and are well documented so user found it easier to use, reports are also easily produced using spreadsheet. But disadvantage is only one person can modify the spreadsheet at a time , as total count of bugs increase time for different reports generation also increases therefore information tracked in this way may eventually difficult to maintain. However new systems are web based and does not require any client installation if users are involved are in different locations and are connected through internet ,they can access real time information anywhere in the

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world. It allows users to report a bug directly to the people who can fix it the web based System of Monitoring Bugs maintains a database which records all information about bugs, identity of expert who is solving is solving it . web based System of Monitoring Bugs is valuable and used for extensively developing software products.

III. FUNCTIONALITIES

The functionalities of System of Monitoring Bugs are as follows

A. Web Based

Programs that are not web based has to be installed on each computer it is an time consuming process and tedious process. But when dealing with web based System of Monitoring Bugs that does not need any prior installation or downloading process, it can be accessed anywhere in the world through internet i.e., the tool can be used by multiple people without installing on each computer. updating are done automatically.

B. Productivity

Use of System of Monitoring Bugs can increase the productivity of individuals by providing a systematical workflow and good feedback for good performance.

C. Software Quality

System of Monitoring Bugs helps in improving the software quality . without tracking bugs there would be no way to control what each person is working on ,with the use of bug prioritization one can determine the quality of software.

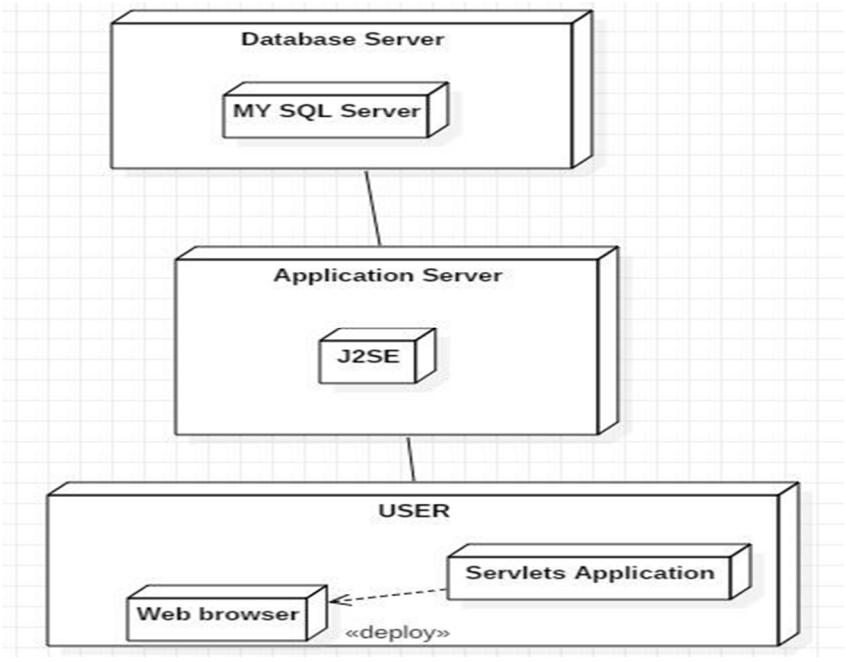
D. Accountability

System of Monitoring Bugs allows assigning bugs to specified experts ,so that user can see who is currently being working on it and can know the status of his work.

E. Bug Tracking & Reporting

Reporting a new issue on web is simple and uncomplicated process ,a new bug can be reported anytime by user and developer without any technical issue.

IV. WORK FLOW OF SYSTEM OF MONITORING BUGS



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V. MODULE DESCRIPTION

System of Monitoring Bugs consists of following major modules

A. Login Module

Login module is the gateway for System of Monitoring Bugs. It allows specified users to use the tool. It is simply achieved by creating a login form which include Username, password, and User type. The user type may include admin ,experts ,and client. The details associated with user type are stored in login table

Based on the user type the user is directed master page. If the user type is admin then specified credentials matches then Admin master page opens. If the user type is either client or expert then their associated page opens which has a separate set of activities.

B. Admin Module

Administrator under this project is mainly concerned with overall performance of Developers and Testers. Admin is responsible for viewing all reported bugs assigning bugs to different experts and configuring new experts. The admin page has menus like,

1) *View Bugs:* This sub module is used for viewing reported bugs and assigning them to technical experts ,assigning bug priority and verify the status of bugs.
2) *Configure Experts:* This submodule is used to configure different technical experts for resolving bugs .
3) *Add Experts:* This is for adding new experts .Newly hired expert details are registered by admin on to system and a temporary password is provided .

C. Client Module

Client module is for directly reporting a bug, reporting a bug include selecting product environment, type of bug being reported and steps to reproduce the bug again.

D. Experts Module

Experts include both developers and testers . Based on requirement admin assigns the bug to specified developer or tester .This module include list of all reported bugs assigned , find out possible cause and try to fix it and provide satisfactory comments for resolving bugs.

VI. FUTURE ENHANCEMENT

When client submits a bug he/she is asked for several questions like product name ? environment ? Bug id? Bug description ? steps for reproducing bug again? And other related info these info is incomplete for developer and have some follow –up questions these slow down the method of bug pursuit.

System of Monitoring Bugs on web can be enhanced by adding more activities performed in a software organization which not only include development but also serval activities concerned with an organization .

The improved set of criteria uses higher information concerned with current bug, this may result in quick identification of bug and quick reply to the bugs.

VII. RESULT

Older Systems suffer a lot of disadvantages like:

A. No proper reporting system.
B. Whole software development has to be maintained manually.
C. User details, project manager ,project details has to be maintained manually.
D. Bug details, project description other related information has to be manually maintained.

In this paper, we describe some efficient mechanism to overcome the problem with older systems. This system fulfills requirements of software organization very efficiently. The main purpose of this project is to resolve problems that arises in different projects .

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VIII. CONCLUSION

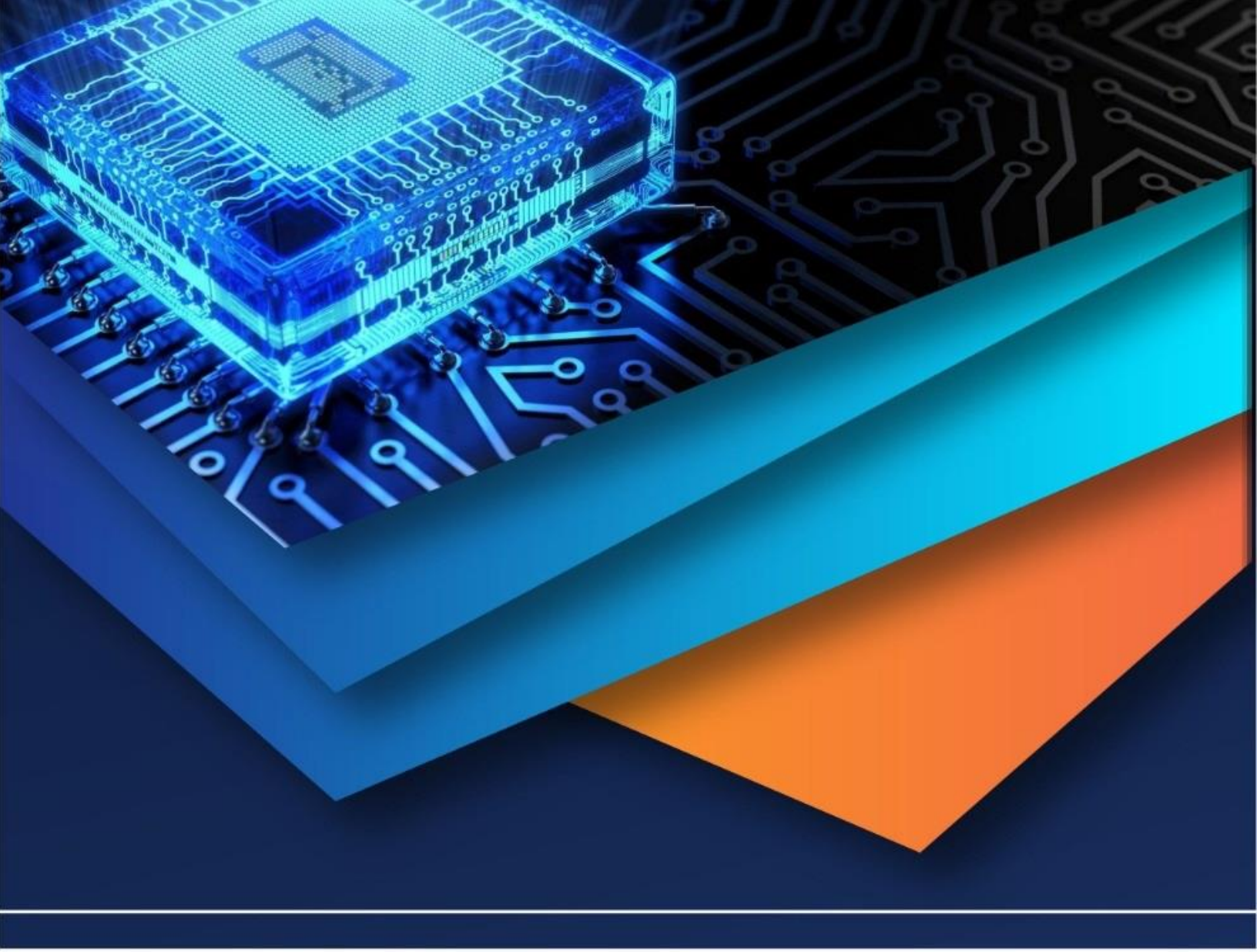
In this paper how the Existing System of Monitoring Bugs do not accumulate the information required for developer so developers cannot resolve bugs with in time so we believe in improvements in collecting information.
System of Monitoring Bugs on web is an open source web application which runs on any desktop OS which is written using jsp and java scripting and can be hosted using an web server . It is specially developed for developers so the process of tracking bugs in project code becomes easier and faster. some advantages of this system include:

A. Improves communication among group of people
B. Improve software quality
C. Increases productivity
D. Improves accountability
E. Most importantly improve the customer satisfaction with bug free product.

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