Bug Stub Tracking System

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Abstract- *Bug Stubs Tracking is the system which enables to detect the Defects. It not merely detects the Defects but provides the complete information regarding Defects detected. The client who is having any queries or bug they will report to the project manager and development team. The developer rectify the bug as per client requirements. Once the client reports the bug to project manager,the bug id will be generated automatically in the admin phase . In the testing phase the tester will check if the error is fixed or not. The tester reports to both project manager and client. The Defect details in the database table are accessible to everyone in the organization*

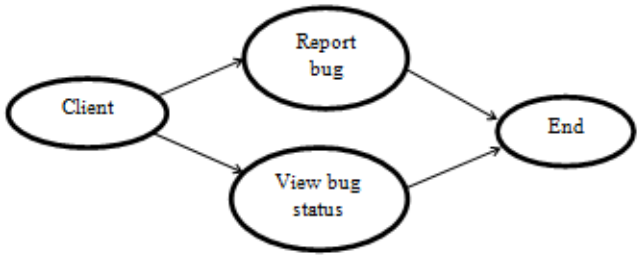
Keywords- Bug report,Bug tracking, Error,Resolution of bug,.

I. INTRODUCTION

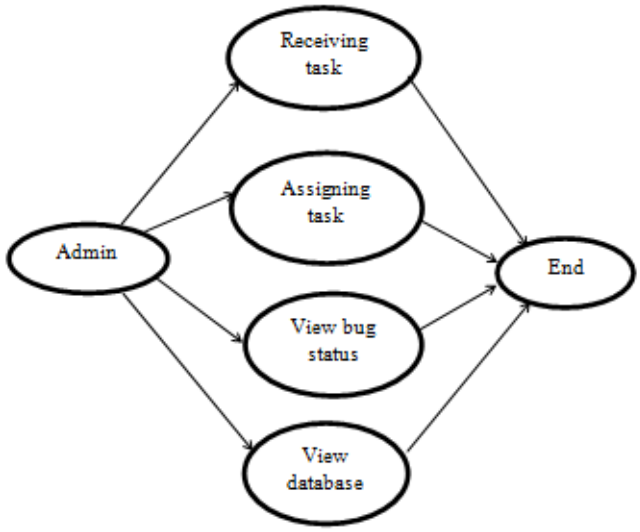
The Defect report is send to the project manager as soon as the Defect is identified by client. The project manager will assign the task to the developer to rectify it. Once the bug is rectified, the bug detail information will be notified to the tester and project manager. This makes that no error will go unfixed because of poor communication. It makes ensure that anyone in the organization who needs to know about a Defect can learn of it soon after it is reported. Defect Tracking System plays a vital role in the testing phase. The Bug Stubs Tracking System maintains the various users separately. It provides separate environments for project manager, developer and tester. The purpose of thisBug Stubs Tracking is to deal with providing online support to the client who are facing the bugs or errors with various software technologies. The client can post their bugs related to software projects in the website and the bug will be rectified by the organization.

Bug Tracking for Improving Software Reliability is an automated system that can be useful to employees and the client in any functional organization. Bug Stubs Tracking System gives the facility to define the work in the company and also allows the project managers to track the bugs solve by the employee for that particular task assigned by client. This tool helps employees to document their Bugs and analyze bugs. This project aims at creation of a Bug Stubs Tracking System. This project will be accessible to all members in the organization and its facility allows developers to focus on creating the database schema and while letting the application server define table based on the fields in php and relationships between them. The objectives of this system are: Client will report the bug to the project manager and developer. Developer will rectify the bug and bug detailed information will be added in the database. The bug detail will be accessible to tester, developer and project manager. This will provide error free software to the client perspective.

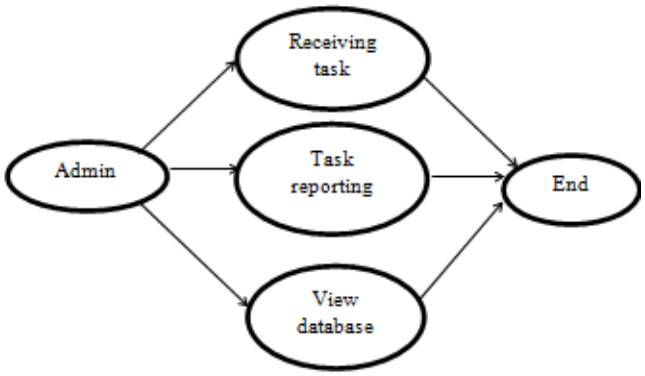
CLIENT MODULE:



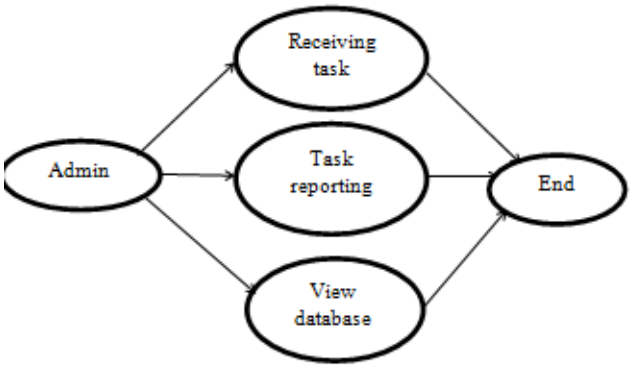
ADMIN MODULE:



DEVELOPER MODULE:



TESTER MODULE:



II. REVIEW OF RELATED WORKS

Akhilesh Babu Kolluri, K. Tameezuddin (2012) presented that bug tracking is an essential discipline in the domain of software engineering. It has far reaching effects on the system when effectively used. The information provided in terms of bugs and solutions in the bug reports can help software engineers to act on them quickly and ensure that they are either rectified or eliminated from the system. The bulk of information provided in the bug reports may cause problem to developers in ascertaining poorly designed information. Therefore the bug tracking systems are to be improved and follow certain standards. To overcome the problem, we propose four fundamental directions to enhancing effectiveness of bug tracking systems. To demonstrate the efficiency of the proposed directions, we develop a prototype application that tracks bugs effectively by capturing essential information from users and help resolve bugs quickly.

Nilesh Zaware, PriyankaDatir(2016) proposed that 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 various 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.

Gauri M. Puranik(2014) introduced bug tracking is a system which is used to solve out any type of bugs in any software. It is mostly useful for any software company. In this system we have design different types of user permission like developer, tester having different rights to connect software. The administrator user can create the user account in the system and gives the rights (permission) as well as he can maintain bug tracking in the system for every projects. As software development is completed, the projects are goes in the next phase i.e. testing. The test engineers those are working in the same project are test the product (Software developed by developer) and if any bug are found they can log (Enter) that bug with his description in our software also set the priority for that bug with his description in our software also set the priority for that bug like high, medium, low, not reproducible. After the first cycle of bug tracking is completed the developer those are working in those projects can log in to system and get the bug list with priority. He can solve the bug and change the status of that bug in our software. The administrator or Project manager can get the idea of bug status, work status of both developer and tester and time span for that project. There is also one major part of user side to test the software called as UAT (User Accepting Testing). If support engineer or client faces any issue in the system after delivery they can also log in to system and put their issue regarding that project.

A.S.SyedFiaz, N.Devi(2013) presented the ever-growing field Information Technology has its many advanced notable features which made it what it was now today. In this world, the information has to be processed, clearly distributed and must be efficiently reachable to the end users intended for

that. Otherwise we know it lead to disastrous situations. The other coin of the same phase is it is absolutely necessary to know any bugs that are hither-to faced by the end users. The project "Bug Tracking and Reporting System" aims to provide the solution for that. The Bug Tracker can be made from any two types. The first one being the system side, the other being the services side. Our project deals with the second one. The paper is wholly dedicated to tracking the bugs that are hither-by arise. The administrator maintains the master details regarding to the bugs id , bugs type, bugs description, bugs severity, bugs status, user details. The administrator too has the authority to update the master details of severity level , status level, etc, modules of the paper. The administrator adds the users and assign them responsibility of completing the paper. Finally on analyzing the paper assigned to the particular user, the administrator can track the bugs, and it is automatically added to the tables containing the bugs , by order of severity and status.

III. EXISTING SYSTEM

In the existing system, the client will mail to the project manager. When project manager check mail that time he assigns the task to the developer. The developer rectify the bug and defect id is created automatically. After that developer sends the message to the tester. When tester see the mail he will retest the bug. If it is fixed he sends mail to the project manager. This is long process and takes more time to solve the problem and message to the client. After that the defect details is not stored for further references. When other client have a same doubt or bug the developer want to find a solution again. It takes more time to solve the problem. If the document is damaged then the total information about the Defect will be lost. The Defect information is not stored in the database for future reference. Bug registration, enquiry and bug accessing is slow. Proper communication with the bug handling team is not at all possible. There is no separate website to handle the bug whenever the client have any doubt or clarifications in it. To avoid all these disadvantages and make the working more properly, the system needs to be computerized by overcoming the above limitations.

IV. PROPOSED SYSTEM

The purpose of the Defect Tracking System is to solve the defect which is send by the client and it is stored in a database. The main intention behind the Defect Tracking System is that to track Defects and report them. Store the Defect information with a unique id in the database for future reference. So, this makes the job of handling the Defects easy. In the proposed system following new implementations are the bugs can be assigned to different persons and will get tracked to closure. The person handling the bug will have the facility to communicate with the project manager in the websites. The proposed system is automated process of sending request through the web based system. The bugs can be sent easily by the client from anywhere. The services are given through online support for everyone in the organization. The users of Defect Tracking System areClient, Project Manager, Developer, Tester. The advantages of the proposed system are no Defect will be unfixed in the application, not merely fixing the Defects but also providing the Defect information, as soon as the Defects are rectified they report to the project manager and tester, to ensure that who needs to know about the Defect can learn soon after it is reported, the proposed system is completely automated system, the developers can easily access their database, this also provides security for the developer information, it is fast, efficient and reliable, avoids data redundancy and inconsistency, very user-friendly, easy accessibility of data, provides more security and integrity to anyone in the organization, can enhance the business growth by increasing product quality through proper communication.

V. CONCLUSION

The project Bug Stubs Tracking System is designed in such a way that it will be useful for managing bugs and give complete defect information to everyone. The project is tested using various validations and test cases. The features which are implemented in Bug Stubs Tracking System are Maintenance of bug details of the client. Employee will be allowed to know about the bug details for future references. It provides features which makes judging the potentiality of the employees based on their performance easily. Easy to maintain relationship and can easily provide good service to client and organization. Increases organization's overall business growth and reduces organization overall expenses. Tables are designed with primary keys and foreign keys in order to establish relationship between tables. The proposed framework can further improved in future by making it more robust and interactive and adapt to all kinds of software systems.

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