

E-BUG TRACKING SYSTEM

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ABSTRACT

A bug tracking system is a software application that is designed to help programmers to keep track of reported software bugs in their work. A major component of bug tracking system is a database that records facts and known bugs submitted by the tester. Bug Tracking System is an ideal solution to track the bugs of a product, solution or an application. Bug Tracking System allows individual developer to keep track of outstanding bugs in their product effectively.

Keyword: - Project Manager, Developer, My sql, Ngrok.

1. INTRODUCTION

A system called bug tracking is used to fix any kind of software bug. Any software company can benefit the most from it. Different user permissions have been designed for this system, such as developer and tester access to connect applications. A bug tracking system enables us to keep track of software issues found by testers and to give detailed information about bugs to the developer and project manager of the software under test. The user of a bug tracking system is guaranteed to be able to follow both the details of the bug and the progress of the debugging. Only few of the large software development companies have used bug-tracking mechanisms for many years. This method is prone to errors and causes the developer to dismiss the bug as trivial, which leads to it being abandoned or ignored. The testing process requires the use of a bug tracking system. The bug tracking system offers distinct settings for the project manager, developer, and tester. It also maintains the various user interfaces independently. A bug's id, screenshot, description, project name, etc. will be given to a person along with the problem. A thorough report of the bug can be sent to the tester as an attachment.

2. RELATED WORK

The most crucial element in the code development technique is the literature review. Determine the time constraint, economic climate, and company strength before building the tool. Once the unit of measurement is satisfied, the next sequential step is to identify the package and language used in the tool's development. Once they start creating the tool, the programmers desperately need outside assistance [1]. Senior programmers, books, and websites can all be used to get this support. Prior to system construction, the system's planned unit of measurement was taken into consideration. The first crucial location in the project development industry takes into account and thoroughly surveys all the necessary requirements for developing the project. for every project Literature survey is that the foremost important sector in code development methodology [2]. The most crucial area in the technique for developing software for each project is literature review [2]. Before creating the tools and the accompanying designs, it is important to assess the time constraint, resource demand, labor market, and firm strength. Once all of these factors have been considered and are satisfied, the next step is to determine the code requirements for each

individual system, such as what kind of package the project needs and how much of the necessary code is required to move on to the next step, which entails developing the tools and related operations.

3. EXISTING SYSTEM

In the existing system, the project manager gives the manual bug report to developers. Also, the follow-up process also manual system. Once the bug has detected the tester give the hard copy to the project manager. Then it transfers to the developers. Once its completed developer informs through the hard copy. In this existing system full process cover by manual process.

4. PROPOSED SYSTEM

In this proposed system, We present a bug tracking system that runs on software. Web portal and DB are both included in this system. Three characters are portrayed in this project: the project manager, the developer, and the tester. Only the developer is given the bug by the project manager. The tester uploads and records the bug information in a database. The developer can identify the bugs and allocate them; after this is done, they will be given an update on the status. The project manager monitors the status of the bugs.

5. CONCLUSION

This paper bug tracking and reporting system aids a software concern in finding and effectively managing the bug in their goods. Bug tracking software can help with error investigation during the testing and development phases. Bug tracking software is an excellent solution for those purposes because it may provide thorough reports, documentation, searching capabilities, tracking bugs and issues, and more. You may be able to benefit from bug tracking software in a number of ways, depending on your development needs and the particular programme.

6. RESULT AND DISCUSSION

The Bug Tracking system results shown us it can store bug severity, description and 'ngrok' act as local host (cloud). The system we proposed act as mediator between tester, project manager & developer. It is a prototype that can be used for future bug tracking development and it can save time in future and easily track bug data from anywhere.

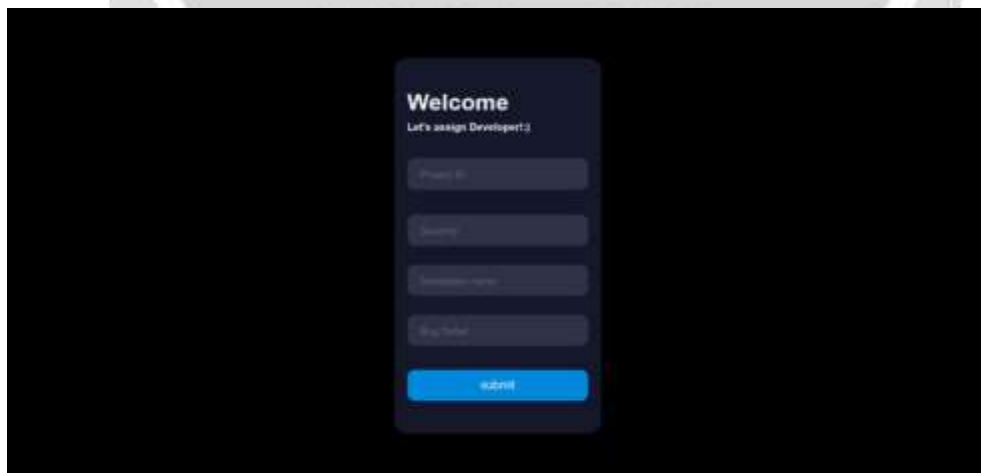


Fig -1: Bug information

7. MODULES

7.1 PROJECT MANAGER

In this module, project managers can login/register with their credentials. Which is stored in data base, also verified. The project manager can see the bug information with status. He has a control to assign developers based on bug severity.

7.2 DEVELOPER & TESTER

In this module, tester uploads the bug information with project-id, bug title, bug description. All this data will be stores in data base. Then the developer can see what the bugs are assigned to them. Afterwards, they can update the status weather, it is completed or not.

7.3 MY SQL

MySQL databases are relational. In this module we are using MySQL for storing all data. We have five tables in the DB like developer, tester, developer, assign developer, and bug info. Each table contains its respective data. We should communicate with DB and web app with java data base connectivity driver.

7.4 NGROK

Ngrok is a cross-platform application that exposes local server ports to the internet. Their website claims, spends more time programming—one command for an instant, secure URL to your local host server through any NAT or firewall.

8. REFERENCES

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