TRI – NIT HACKATHON
BUG Tracker [Dev02]

Introduction

For a Software Team working on a project that involves a lot of people , money and trust, **BUGS** are really a chore to keep track of and to fix as quickly as possible. So to fix this huge hassle and to make your time of bug fixing easier we bring you "BUG TRACKER".

This project is a webapp made using the MERN stack. It gives a very handy, smooth and easy going way of handling bugs that haunt the developers. The head of the organization or the team can create an organization and add employees to it. Once Employees are added
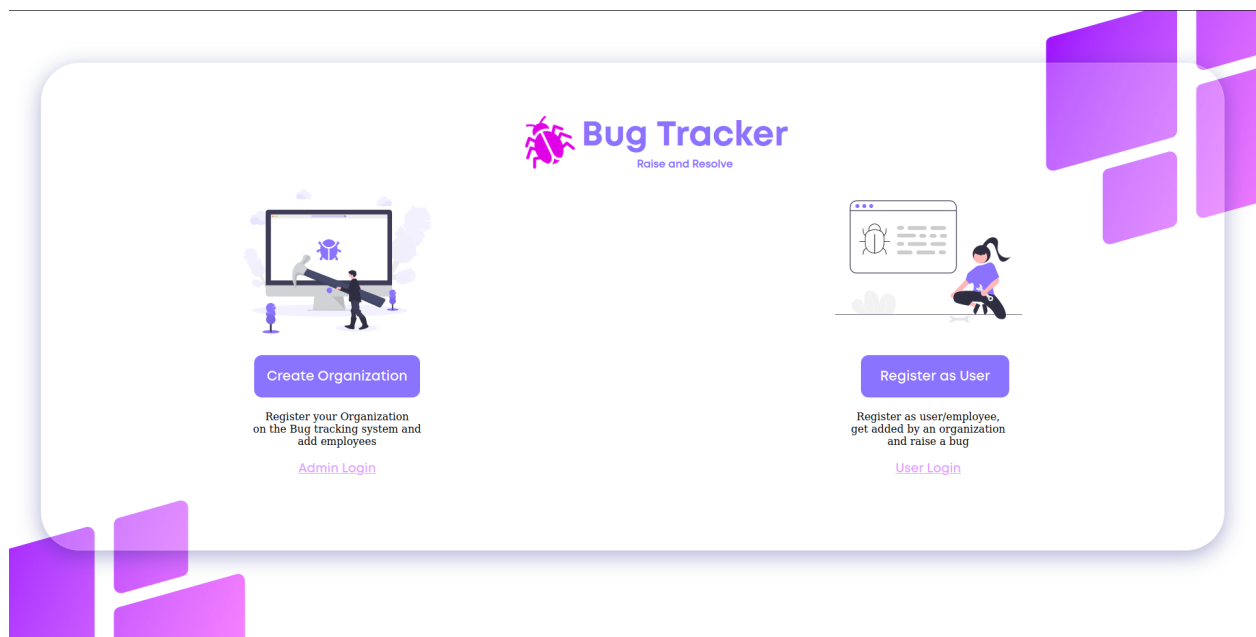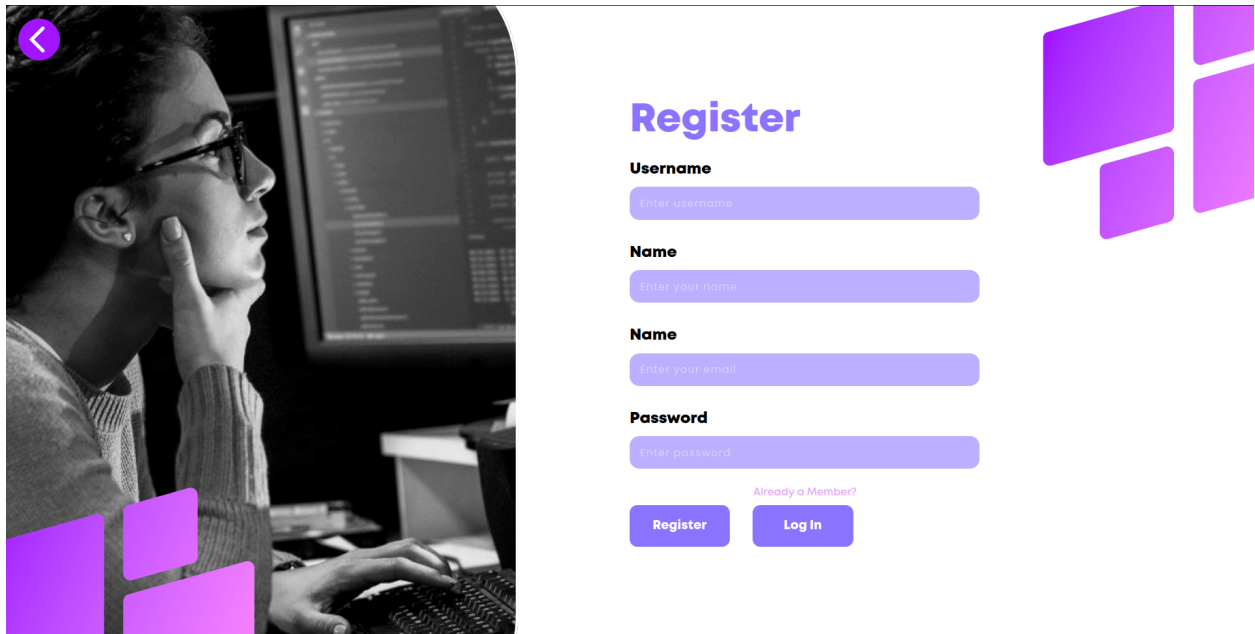
they are assigned one of 3 levels. The employees at the highest level will decide who will work on which bugs, deadline to fix the bug, threat-level of the bug, and they also have the power to close the discussion threads if they feel the bug is fixed. Not everyone can see all the bugs, employees of rank 2 and 3 only get to see the bugs assigned to them and all the bugs below their own level. Normal users of the product can also raise a bug but they can only see the bugs raised by them and the bugs that are made public by the level 1 employees. A discussion thread is started once the level 1 employee assigns a threat level to a bug. Employees and users to whom the bug is visible can discuss the bug in this thread. Bugs have 4 threat levels: **Wolf, Tiger, Dragon, God.** God being the bug of high threat, and wolf with least threat.

Work Done and Results

We Implemented a full stack web app using MongoDB as a database hosted on the atlas server. We built a secure Authentication system for both users and organizations . A user/Employee can raise bugs and those bugs will be assigned and their threat level will be decided by the level 1 employees of that organization. When you visit the website a beautiful landing page invites you and you are asked to login or signup. Once that is done you can begin raising bugs and solving them if you are an employee also deciding deadlines and threat levels if you are a level 1 employee.

Conclusion

Although the prevalence of bugs can't be avoided, the way of handling them can be. Using this great solution, one can reduce the pain of dealing with bugs a lot easier. This solution also allows for easy collaboration with colleagues and partners, so as to make working together against the bugs easier. Come lets use BUG TRACKER and have a great working experience.