TagTeam Dashboard: Improving Team Collaboration

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ABSTRACT

The TagTeam Dashboard improves team collaboration in client-based projects through addressing uneven workloads, changing requirements, and seeking help. Developers can tag troublesome code sections for peer assistance, and project managers can assign tasks clearly. The dashboard integrates with GitHub for direct edits and rewards developers for collaboration.

1 Introduction

The unplanned delivery of work, unstructured activities, and late solution delivery is often the after-effect of client-based development because support processes go everywhere. After the development, even cluttered issue tickets do not help flow any better. Current tools are only inadequate to organize collaborative activity or share knowledge easily.

2 My Problem Statement

The development teams face unmanaged tasks during pre-deployment, uneven workloads, and scattered help requests. When it is already post-development, vague ownership of tasks and cluttering tickets worsen the problem. TagTeam Dashboard allows developers to tag problematic code sections, which enables specific collaboration and creates a better mechanism for getting an integration of GitHub-related integration and rewarding assistance.

This project aligns with the objectives of the course; this applies principles of software engineering to solve real-life problems in a development team. Agile approach is an iterative approach based on user feedback where requirements get gathered from surveys and interviews.

We chose this software engineering process because the situation where projects become delayed due to varying issues is extremely common in the software engineering world. This can lead to money being wasted and projects being delayed. Ultimately, this hurts both the developers and the clients, which is what we are trying to prevent.

3 Related Work

Currently available tools like JIRA, GitHub Issues, and Slack support task management or communication functions but lack features for the targeted code collaboration or motivating peer assistance. TagTeam Dashboard fills this gap through tagging, adding links to GitHub, and rewards.

- JIRA: Power to manage tasks but does not offer any features to nudge developers for collaboration within the tool.

- GitHub Issues: Has functionalities for task tracking and code management but does not offer a method to tag some code regions for help.
- Slack: Fantastic for conversation and interaction but lacks actual task management and does not have an integration with GitHub.
- TagTeam Dashboard bridges this gap with the tagging functionalities for some specific code regions, encouraging collaboration through rewards in helping other developers.

4 Software Engineering Process

TagTeam will be designed based on Agile methodology which means it will develop in iterative ways, welcoming continuous feedback

- Sprint Goals : Develop the core tagging feature and GitHub integration.
- Design & Prototyping: This task will include wireframes/mockup designs
- Implementation: Tagging, GitHub integration, and reward system development.
- Testing: Unit, integration, and UAT
- Deployment: Track and update post-launch

5 Conclusion

TagTeam Dashboard will address two fundamental pain spots for the development process: unevenly spread workloads and poor communication. Code sections will be tagged, connected to a GitHub repository, and contributions rewarded toward an environment that is customer feedback-precise.

6 References

- JIRA: https://www.atlassian.com/software/jira
- GitHub Issues: https://github.com/features/issues
- Slack: https://slack.com/