

Project Milestone 1



Blacksburg Software Team

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Problem Statement

- Scrum boards are an important part of many companies, as they help break a project down into more manageable increments
- However, many teams can be limited by different factors
 - Remote working: traditional scrum boards are reviewed in person, so it becomes hard for people working remotely to stay updated
 - Different work schedules: while scrum meetings can be very helpful, not everyone can make time for these meetings in their schedule
 - Staying accountable: when milestones are discussed in a scrum meeting, it can be hard to make sure that all the employees are doing the work they were assigned, especially in large teams
- Therefore, there needs to be a more applicable, collaborative, and user-friendly approach available

Proposed Solution

Our solution is to create a web based Scrum board to help keep developers on track and solve many issues faced in the world of software engineering. Aside from making our Scrum board simple and easy to use, we have decided on a set of features to implement that many traditional Scrum boards lack.

1. Custom categories. Traditional Scrum boards only have To Do, In Progress, and Complete categories for tasks to fall into. We plan to allow the user to add custom columns to fit their needs.
2. Tasks filters. One feature we plan to add is the ability for users apply filters to the Scrum board. Some filters we plan on adding include: Task owner, Parent task, and Task creation date.
3. Custom naming conventions. Typically Scrum boards use the naming convention of stories and epics. However we plan to add a feature which would allow users to change the traditional naming convention.

Relation to Project Goal

- Project goal: The goal for the CS3704 course project this semester will be to develop a project to improve any aspect of software and its engineering
 1. Scrum boards are used on a daily basis through stand up on software engineering teams
 2. Scrum boards are simple for the most part and useful but our variation will add some new features
 3. Adding more productive features allows for more productivity and organization
 4. Will have a more productive impact on software engineers allowing it to improve software engineering process

Requirements Elicitation Process

- Focus groups used with 2 other groups to gather/elicit requirements
 - This type of project can benefit all types of collaborative workers
 - Need to get an idea of how groups would interact on the board
- Questions asked:
 - Are you familiar with Scrum boards? How often do you use them?
 - What goals do you have when using Scrum boards?
 - Do you have any problems with Scrum boards?
 - What would make it easier to collaborate on Scrum boards? Any specific features?

Requirements Elicitation Results

- Neither group uses Scrum boards often, but both know the concept
- Groups want to have certain level of detail in scrum board + guiding each other through the board synchronously w/ certain roles for each user

Through requirements elicitation, we can define the following requirements:

- Create a board where users can work collaboratively to add and remove categories and notes for those categories
- Allow users to define roles/permissions for the board according to the board's owner

Requirements Elicitation Q&A

Q1. Are you familiar with Scrum boards? How often do you use them?

A1. Yes, not often

A2. Don't use, familiar with them from taking the class.

Q2. What goals do you have when using Scrum boards?

A1. Familiar with concept

A2. See where everyone is at. No one is behind, on wrong track.

Q3. Does you have any problems with Scrum boards?

A1. To-do, in progress, done

A2. Lacking detail, get off topic, not enough guidance

Q4. What would make it easier to collaborate on Scrum boards? Any specific features?

A1. Sort by people, sort by roles

A2. Face-to-face meetings, synchronous board.