Sprint 2 Report

Better Quiz App
Alpha Team
2/21/2018

As with the previous sprint, the alpha team continues to do an excellent job in communicating, coding and collaborating with each other. There is now more of a distinction between team members that work with the frontend and those that work on the backend.

Actions to stop doing:

- Although our team communicates well, our meetings can be inconsistent due to scheduling conflicts. Although this doesn't affect, it does hamper our ability to collaborate on certain aspects of programming. We noticed this in our burnup chart because on some days we would complete very little work, while on other days, we would complete a lot of work.

Actions to start doing:

The actions to be done are listed as follows:

- Time box our tasks so we can finish them in a more timely manner
  - Having a more defined timebox for each tasks increases motivation to complete the task in a timely manner
- Minor modifications for the planning, stories and burndown chart on the board.
  - While for the most part our sprint practices have improved, they can be improved more
- More information on the sticky notes to track our progress
  - Although we added more information on the sticky notes than last sprint, lack of information such as estimated task hours made it more difficult to calculate progress on burnup chart. Adding such information for the next sprint will save time
- Use more of a scrum interdisciplinary approach for the tasks
  - SCRUM wants users to have diversified roles, but we had more solidly defined roles such as frontend and backend. Blending these better may help us.
  - Complete the important and urgent tasks first, don't divide tasks between the backend and frontend teams.
- Start completing backlog tasks in backlog
  - Our backlog is building up. Although many features were deemed "could have" features, we could definitely address some of them if we have time.
- Make tasks more specific so they can be worked on and tracked more easily
  - Clearer tasks reduce overlap and improve our ability to detect roadblocks, etc.

Actions to keep doing:

- In our previous report we wanted to start: pair programming, sketching out the design of our website, improve communication, set a coding guideline, and improve our accuracy in estimating time for user stories. We have met or exceeded all these goals, so we should continue to identify the actions we should stop doing and actually follow through, as we have done for Sprint 2.
- We also have a consistent and regular contact, such that communication has not been a problem for us. We have divided our tasks to be isolated from each other, so coding conflicts have been non-existent during this sprint. We have done a good job branching away from Master and merging when appropriate and we should continue to do that. We have been pretty efficient when pair programming, and it allowed us to solve problems that we would have spent a lot more time on.

Work completed, and work not completed:

All the following user stories were successfully completed:

- User story 1: As a frontend developer I want to design a layout for each webpage
- User story 2: As a user I want to be able to register an account
- User story 3: As a backend developer I want to define a user model

The following user stories were not completed:
- As a user I want a clear, simple user interface to take quizzes
- As a user I want to see my graded quiz.

Since we could not successfully link quizzes to specific users this also hindered our progress on the frontend. While we did finish most of both user stories, we were not able to actually complete either one because they relied on each other. One factor in this was that we completely underestimated the difficulty of certain tasks such as "save quiz state to user", allocating it only one hour when it can/ does take much longer

Work completion rate:

We didn't anticipate one of our member getting seriously ill. Also, some of our user stories were too interdependent, so we couldn't work on certain user stories without finishing others first, or until one team (frontend, backend) finished a certain task. This slowed our progress.

Total number of user stories completed: 3 user stories
Total number of estimated work hours completed: 30 hours
Sprint duration: 14 days

Sprint 2 Burnup Chart: CS115 Better Quiz App

Legend:
- ▬●▬ Total Hours
- ▬●▬ Projected Completion Rate
- ▬●▬ Actual Completion Rate