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## Sprint 3 Report

### What things should we stop doing?

We encountered a lot of problems when team members completed a feature or fixed a fault but didn't close the github bug report. This could have been avoided by closing bugs on github immediately when we fixed them, along with checking that a bug is open and assigned to whoever would like to work on it before starting work. We should have created the testing equivalence classes earlier so that we wouldn't have had to rush to complete them by the end of the sprint. Our reliance on digital communication has at times impeded progress - face to face meetings might have alleviated this problem.

### What should we start doing?

After Sprint 1 and Sprint 2, we realized that we needed to do more team programming, but we unfortunately haven't yet implemented this practice. We need to start working on larger tasks as a team, using pair programming and only solo programming on smaller, easier tasks. We should start assigning part of each day to be a group lab session to hammer out work. Regardless of how little time we had to work given our school schedules, having dedicated time each day to work on the project would enable us to progress much more quickly.

### What is working well that we should continue to do?

The fault reporting tool on github works extremely well for assigning people to user stories and resolving faults. Github's "bug tracking" tool has become essential to team coordination, and has worked better than the excel fault tracking sheet we were previously used. We will definitely be using some similar bug/issue/task tracking system in the future. Our frontend/backend division of labor is working very well, and each team is very effective at their respective jobs. Code review before merging has reduced faults and technical debt. Code review has also allowed team members to become familiar with parts of the code that they hadn't worked with. We also tried having a verbal code review with several members of the team, reviewing a module of code that most of the members relied on in their code but hadn't actively developed. Ultimately this made de-faulting the code much easier.

## Task Listing

✓/✗ **PARTIALLY COMPLETED:** As a visitor

I want a simple and intuitive UI

So that I can easily navigate the website

**Score: 13**

- ✗ Task: Modify Navigation Bar so it works better on mobile platform: 4 hours
- ✗ Task: Customize bootstrap theme so the site has more character: 6 hours
- ✓ Task: Lists of restrooms/reviews autoload when user scrolls down: 5 hours
- Total: 5/15 Hours

✓ **COMPLETED:** As a site user

I want to view the restroom on a map

So that I can visually locate restroom locations

**Score: 3**

- ✓ Task: Search by address: 2 hours
- ✓ Task: Search by gps: 2 hours
- Total: 4/4 hours

✓/✗ **PARTIALLY COMPLETED:** As an administrator

I want to test the site and receive user feedback

So that I can improve the usability and UI of the application

**Score: 10**

- ✓ Task: Set up feedback form: 3 hours
- ✗ Task: Prioritize and log feedback from form: 2 hours
- ✗ Task: Organize live user tests: 2 hours
- ✗ Task: Perform and receive feedback from live users: 5 hours
- Total: 3/12 hours

✓ **COMPLETED:** As a general web site user

I want to be able to view restrooms near me on a map (given radius)

So that I can get to the restroom as quickly possible

**Score: 5**

- ✓ Task: Cluster restrooms together when there is high density: 5 hours
- ✓ Task: Provide a restroom map popup preview template: 5 hours
- ✓ Task: Populate restroom map popup preview : 4 hours
- ✓ Task: Show only restrooms within local radius: 5 hours
- Total: 19/19 hours

✓ **COMPLETED:** As a site visitor

I want to be able to sort reviews by quality

So that I can decide which reviews are best

**Score: 7**

- ✓Task: Provide appropriate quality filter from front end: 3 hours
- ✓Task: Query with appropriate order filter: 3 hours
- Total: 6/6 hours

✓ **COMPLETED:** As a user

I want to be able to confirm the locations of restrooms

So that I can remove fake and/or closed restrooms

**Score: 4**

- ✓Task: Provide ability to flag inaccurate restroom locations: 3 hours
- ✓Task: Incorporate flag into restroom listing algorithm: 5 hours
- ✓Task: Display indication of inaccurate location on restroom page: 4 hours
- Total: 12/12 hours

✓/✗ **PARTIALLY COMPLETED:** As a tester

I need to be able to do software builds and run regression tests.

So that I can ensure the quality of the product, and identify problems easily.

**Score: 10**

- ✓ Task: Write tests for flagging system: 4 hours
- ✗ Task: Write tests for fault reporting: 3 hours
- ✗ Task: Write tests for restroom map popup: 5 hours
- ✓ Task: Run system test on entire site: 4 hours
- Total: 8/16 hours

✓ **COMPLETED:** As a user

I want to flag inappropriate content and have content automatically filtered

So that the site stays usable for all ages of users

**Score: 5**

- ✓ Task: Provide a report tool on restrooms and reviews: 4 hours
- ✓ Task: After several reports remove inappropriate content: 4 hours
- ✓ Task: Implement algorithm to automatically replace/remove inappropriate words: 5 hours
- ✓ Task: Mark users for consistent spam/inappropriate submissions: 5 hours
- Total: 18/18 hours

102 ideal hours of work planned

75 ideal hours of work completed

### What is our rate of completing work?

Sprint Duration (workdays)	15 days
Total Ideal Work Hours	75 hours completed / 102 ideal hours planned
Total Story Points	24 story points completed / 57 story points planned
[Sprint 3 Average] Work Hours / Day	$75/15 = 5.0$ hours / day
[Sprint 3 Average] Story Points / Day	$24/15 = 1.6$ points / day
[Sprint 1 & 2 & 3 Avg] Work Hours / Day	$(68 + 86 + 75) / (9 + 15 + 15) = 5.9$ hours/day
[Sprint 1 & 2 & 3Avg] Story Points / Day	$(35 + 43 + 24) / (9 + 15 + 15) = 2.6$ points/day

### Burnup Chart

Our burnup chart is in Baskin Engineering 379E.