Trash-Track

Sprint 1 Review

CEN Group 44

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High Level Overview of Trash-Track

Trash-Track is a waste control web application.

- View and add nearby trash and recycling bin locations
- Gain experience points and level up when adding a new bins
- Share profile with friends
- Keep track of favorite bin locations

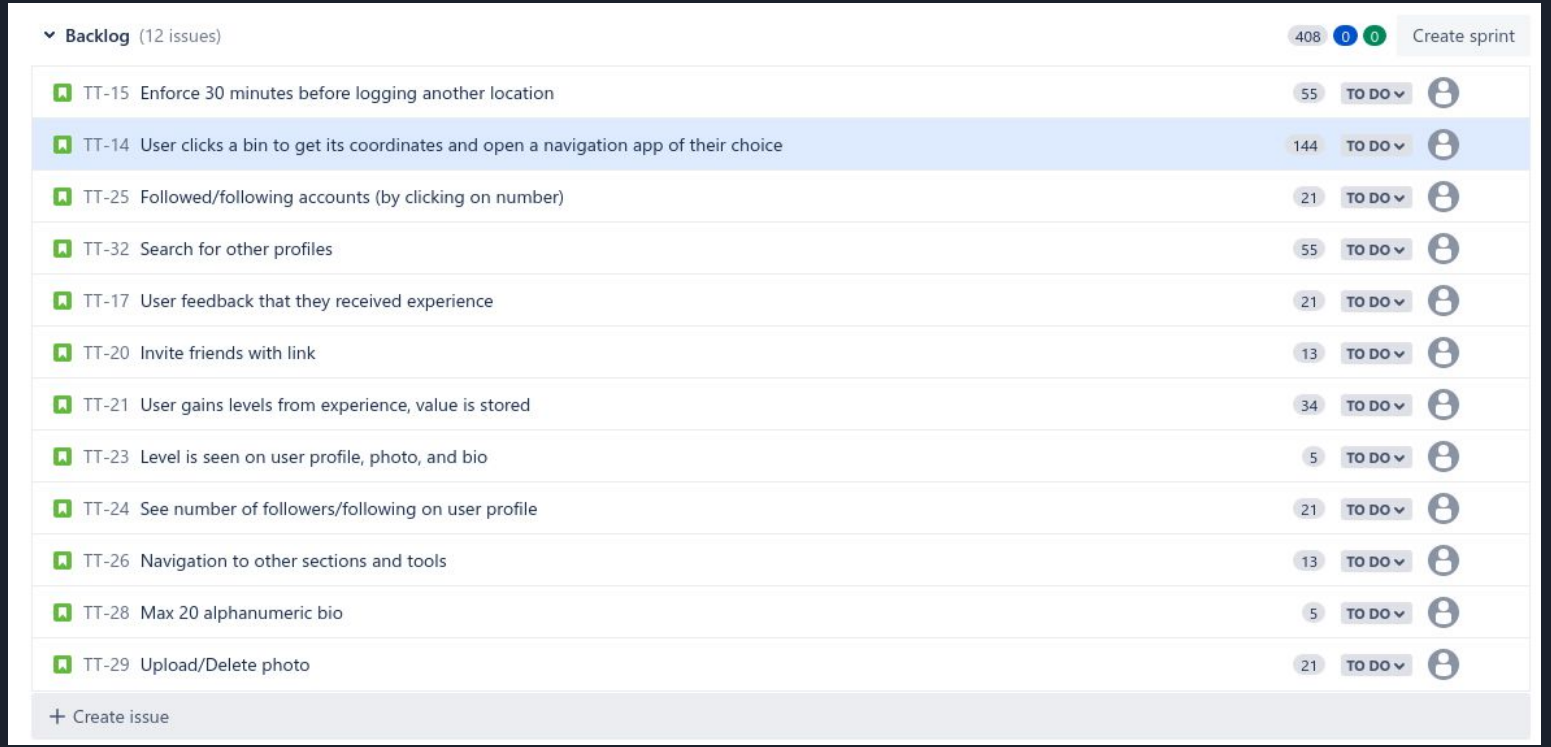
Purpose

- In Gainesville, litter can be found on the side of roads and near sidewalks
- This negatively affects ecosystems in and around the Gainesville area
- Our goal is to provide an easy way to locate nearby waste and recycling bins.
- Making trash disposal more convenient can prevent littering

Product Backlog Overview

Product Backlog

Only Important Items



Backlog (12 issues) 408 0 0 Create sprint

TT-15	Enforce 30 minutes before logging another location	55	TO DO
TT-14	User clicks a bin to get its coordinates and open a navigation app of their choice	144	TO DO
TT-25	Followed/following accounts (by clicking on number)	21	TO DO
TT-32	Search for other profiles	55	TO DO
TT-17	User feedback that they received experience	21	TO DO
TT-20	Invite friends with link	13	TO DO
TT-21	User gains levels from experience, value is stored	34	TO DO
TT-23	Level is seen on user profile, photo, and bio	5	TO DO
TT-24	See number of followers/following on user profile	21	TO DO
TT-26	Navigation to other sections and tools	13	TO DO
TT-28	Max 20 alphanumeric bio	5	TO DO
TT-29	Upload/Delete photo	21	TO DO

+ Create issue

Velocity Completion and Predicted Velocity

Velocity Completion

TT Sprint 1 13 Oct – 27 Oct (10 issues) — 0 0 552 — Complete sprint

Finish all items by the end date.

~~TT-11~~ Set up a MongoDB atlas database for users and coordinate points.	13	DONE
~~TT-8~~ Set up basic google oauth in ExpressJS with PassportJS and session middleware.	55	DONE
~~TT-27~~ Description of the application and its purpose	5	DONE
~~TT-7~~ Create svg markers for trash cans and recycle bins respectively.	34	DONE
~~TT-5~~ Research ways to store large amounts of coordinate pairs and search through them efficiently.	34	DONE
~~TT-6~~ Work on visual prototype for the app (basic design).	144	DONE
~~TT-9~~ Reading through javascript.info and the documentation for svelte at svelte.com/docs	89	DONE
~~TT-10~~ Create logo for trash-track	89	DONE
~~TT-34~~ Include routes to all necessary pages	55	DONE
~~TT-33~~ Sign up/sign, user profile, settings buttons, etc.	34	DONE

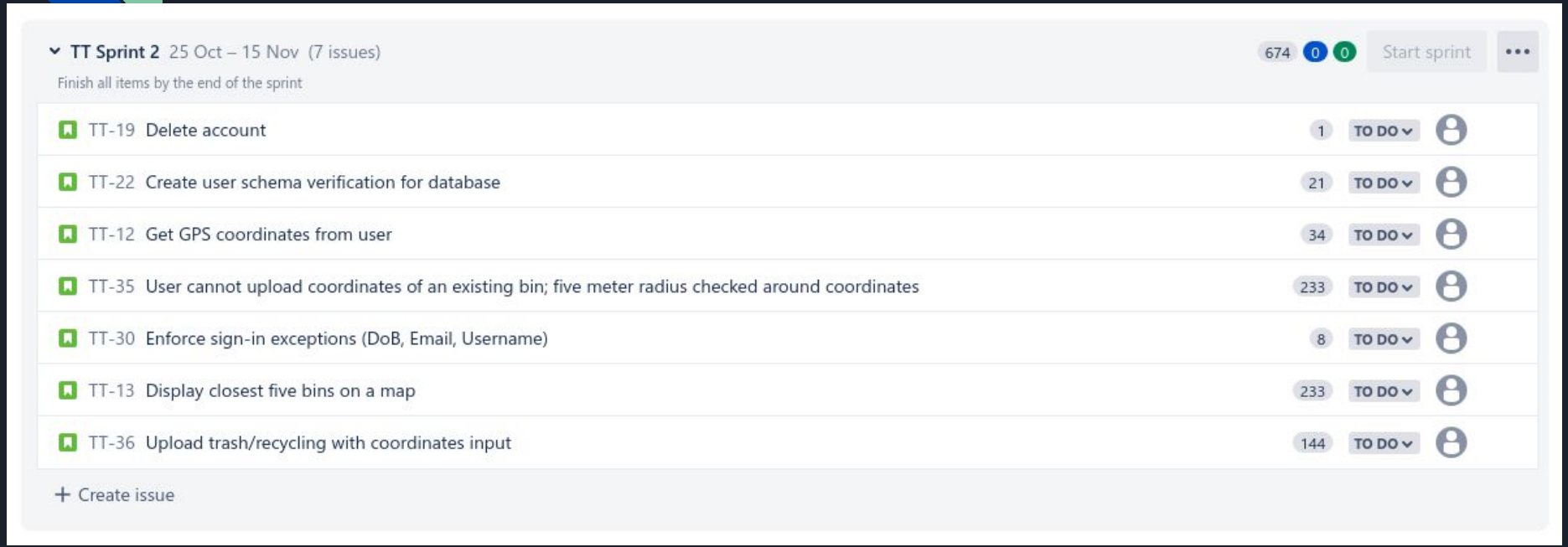
+ Create issue

- 552 story points completed during our first sprint (34% of total story points completed).
- 1082 story points left for the next two sprints.
- First sprint was slow because we were learning new technologies.

Predicted Velocity

- We expect to complete 540 story points on average for each of the next two sprints.
- During Sprint 2, we plan to complete 674 story points.
- During Sprint 3, we plan to complete 408 story points.
- Will probably exceed both of these estimates after adding items to the backlog.

Sprint 2 Backlog



Review of Test Driven Development

How we implemented Test Driven Development

- Jest to test lower level javascript utility functions.
- Insomnia to test higher level api http requests.
- Wrote tests first.

Jest

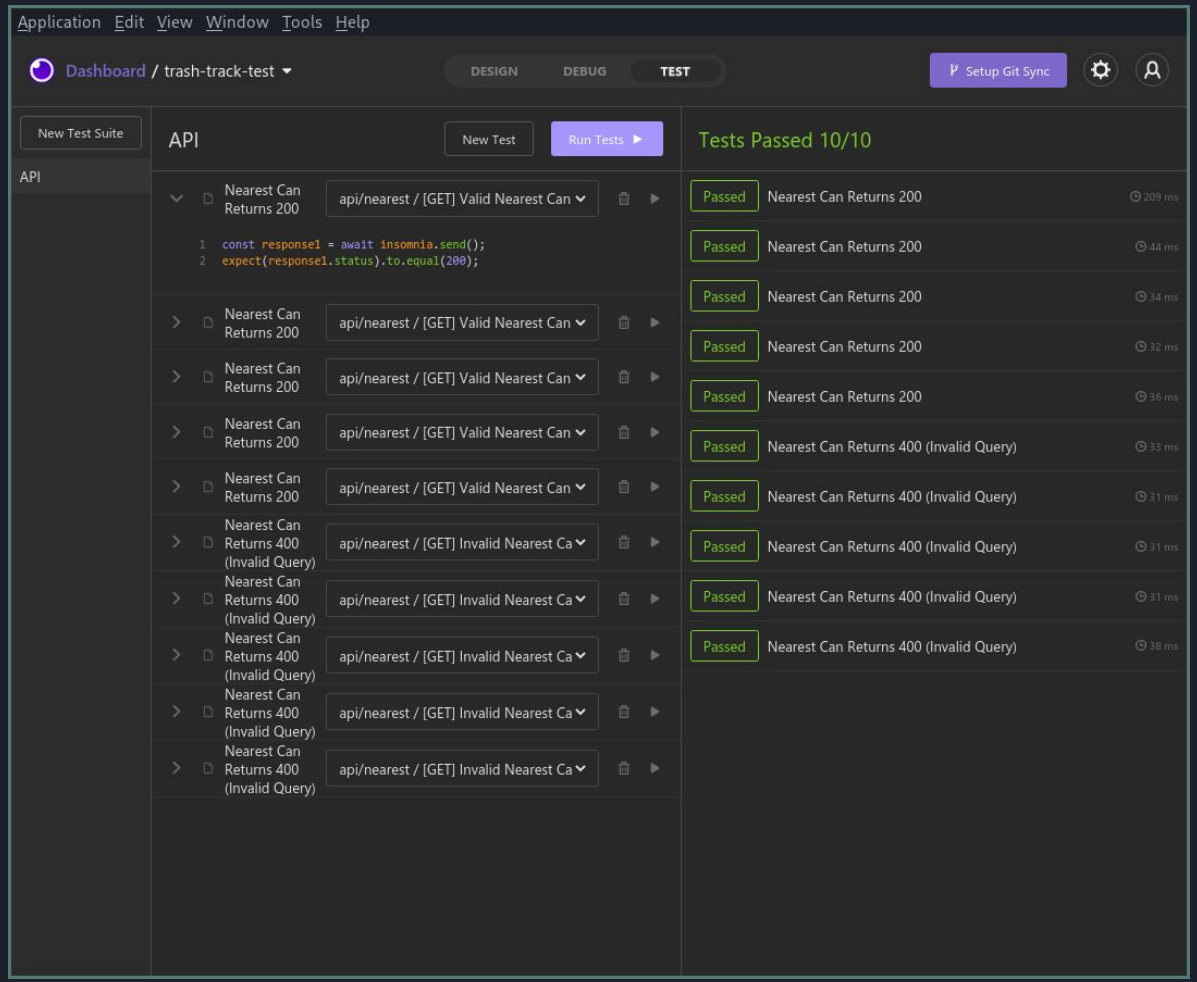
```
> server@1.0.0 test /home/joey/Projects/11282group44/server
> jest

 PASS  ./util.test.js
  ✓ distance between century tower and reitz union to equal ~0.005143 (1 ms)
  ✓ distance between century tower and southwest rec to equal ~0.027470
  ✓ distance between southwest rec and marston science library to equal ~0.0
26833
  ✓ distance between reitz union and southwest rec to equal ~0.022339
  ✓ distance between century tower and marston science library to equal ~0.0
00806
  ✓ closest point to 20, 82 to equal {lat: 29.6488, lng: -82.3433} (3 ms)
  ✓ closest point to 10, -82 to equal {lat: 29.6381, lng: -82.3686} (1 ms)
  ✓ closest point to 29.6379, -82.3690 to equal {lat: 29.6488, lng: -82.3433
}

Test Suites: 1 passed, 1 total
Tests:       8 passed, 8 total
Snapshots:   0 total
Time:        0.355 s, estimated 1 s
Ran all test suites.

~/Projects/11282group44/server · (joseph-somerdin±)
›
```

Insomnia
(API Testing)



Demo

Thank you!