Sprint 3 Planning Report – GrinSync

Capacity

This sprint is busier than the last one, so we can do less work.

Sam is out of town for the whole weekend for softball and has several midterms in her other classes.

Bradley has no track meet this weekend, so should have more time this weekend than last weekend (but still has midterms).

Brian has no track meet this weekend, so he may have a little more time this sprint, but he still has midterms.

Nam has midterms after spring break but still has several papers to write for next week.

Kevin indicates that he'll have more time this week to work but still has midterms.

Livia is busy with midterms.

As a whole, some of us have weekend commitments, but almost all of us have midterms. While we think we may be able to do more work, midterms can take more time than expected, so we will probably end up doing less work this sprint. Our time estimates from the last sprint were a bit too low, as our issues took more time than we expected. So, we will adjust our time estimates and also alleviate the work load we have as a whole. In conclusion, we won't be able to do as much work as in the last sprint.

Goals

The outcomes we plan on completing this sprint are:

- Front-end Team:
  o Make sure everyone has the Android Flutter framework on their personal computers (so everyone is on the same page).
  o Get started on a Flutter project
    ▪ Implement tracer code to ensure that the Django API and Flutter app can communicate.
- Back-end Team:
  o Have the Django backend be able to receive requests from the Flutter app and send back the requested information.
  o Set up server framework for Django.
- Completing Milestone 6 (see Leah's assignment sheet for what this entails): written work + test automation and continuous integration.

Task Breakdown

You can find more details about the issues on our issue tracker:
https://trello.com/invite/b/uRb8HI8c/ATTIfecbcca3acd9de1f86887aded46ef03f7BBBFDEA/grinsync

A summary of the task breakdown:

- We divided the writing work of Milestone 6 among our group (see issue tracker for more details).
- Outside of Milestone 6 work:
  o The frontend team will test that the Django API is working by creating a GET request and printing out the received information. We will also make sure everyone has the Android Flutter framework installed correctly and has an emulator setup (or a phone they are willing to test with).

- The backend team will create a page for which the front-end team will create a GET request. The page will need to include a JSON response to be returned to the app so that the app can print out its contents. The team will also need to set up Nginx and Gunicorn for the Django server framework.

Assignment
- Bradley: Decide between using the "http" or "dio" packages and add the specified package to the Flutter project. Create a GET request to query Django and print the result in the app to confirm that the API is working. In Milestone 6, write about the front-end's test-automation infrastructure, our justification for using it, and how to add a new test to the code base. Set up the test infrastructure. With Sam, research and set up the CI service.
- Livia: Edit the writing for Milestone 6 (for both teams).
- Sam: Get the GitHub extension in VSCode. Research GitHub Actions for CI and help Bradley set it up once the research is done. In Milestone 6, write about the front-end's CI service (+ how our project repo is linked to it) and our justification for using it.
- Brian: Full writing portion for Milestone 6 (+ setting up the test automation infrastructure and CI). Create a page for the frontend to make GET requests for. Set up server framework in Django project.
- Kevin: Start designing the homepage for the app (exploring with different code; kind of like prototyping at the very, very basic level). In Milestone 6, help to write about which tests will be executed in a CI build and which development actions trigger a CI build.
- Nam: Look into more Flutter tutorials. In Milestone 6, help to write about which tests will be executed in a CI build and which development actions trigger a CI build.
- Frontend Team: Ensure that all of us have the Android Flutter framework correctly installed on our personal computers (Mac users did the iOS framework, but we want to do Android first).

Issue Tracker
- Results of Sprint 3: See the "Done in Sprint 3 (3/06 - 3/12)" section in the Trello Issue Tracker.