

Code Review

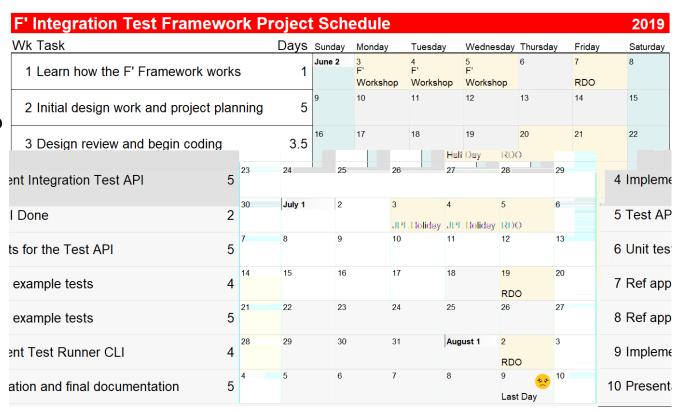
Presented by Kevin Oran on July 17, 2019



Project Schedule

Changes

- Moved F' Unit testing forward to last week.
- Prepared small Ref App Demo this week.



Project Progress

What is done?

- Test History
 - Implementation, doc-strings, and unit tests
- Predicates
 - Implementation, doc-strings, and unit tests
 - I have yet to add Event Severity as a field in the API. This will get done.
- Test API
 - Implementation, doc-strings, and most unit tests
 - I have yet to add auto-logging all evrs to the test log. This will also be added.
- Test Logger
 - Implementation, doc-strings, no tests

Project Progress

What is in progress?

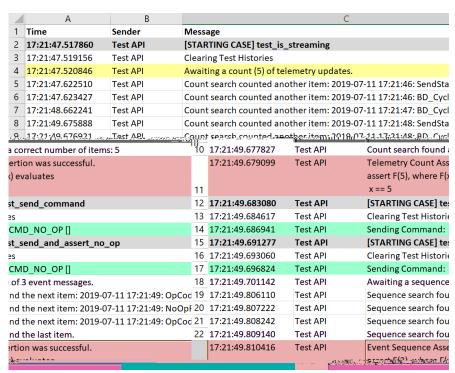
- Test API Unit Tests
 - Finishing test cases for Event Assert and Await methods. Unit tests for get_latest_time and clear_histories still need to be added
- Ref App Tests
 - Have currently connected API to ref app and prepared several example tests for demo. The demo will also generate a test log.



API Demo

Reference app example tests

- For today, I have prepared a demo on the Ref app. The demo includes an API log and a couple example tests.
- This demo will be expanded to integration tests for the Ref app.



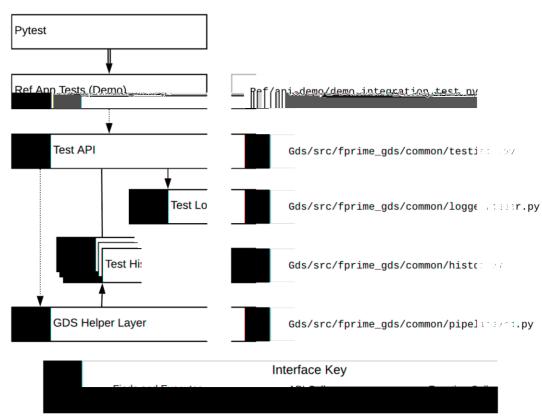
Sample of the API Log output

Code Review Road Map

Notes for reviewers

- The history searches are overcomplicated. It's not something we can probably solve in this meeting, but it's on my list.
- Please share suggestions on API interface itself if there are any.
- Please share suggestions on API features that may still be missing.
- I'm still implementing a better way to handle timestamps in the API.
 Suggestions for that are also welcome.

Component view and review roadmap



API Overview

How is the API organized?

- There are three fundamental searches: item, count, and sequence.
 - All searches can specify a timeout to await
 - All searches can specify a starting point in a history
 - Most searches can substitute a usercreated, filtered history
- There are two versions of each search: await and assert.
 - By default await begins the search at the end of the current history (can be changed)
 - By default asserts only search on the current history (can be changed)

Category		Methods
API Functions		7
Command Functions		4
Command Asserts		2
Telemetry Functions		5
Telemetry Asserts		3
Event Functions		5
Event Asserts		3
History Searches		3
	Total	32

