

Logging Extension Report

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Total time spent: (combined)

Category 1: 4 hours

- Changing the database to support the logging features, writing SQL statements for the logging features.
1 hour
- Adding methods to the SystemInformationService to retrieve logs from the system, as well as the supporting methods for this in the apiService and the test suite.
1 hour 30 minutes
- Add methods to apiService and SystemInformationService to log errors and requests to the database.
1 hour
- Research (RFC specification) and discussing how to best implement the new extension.
~30 minutes

Category 2: 2.5 hours

- Fixing bug causing the connection between sysInfo and the api to fail when trying to log error messages. This ended up being a problem with the library not accepting certain variable names. Took quite some time to find.
1 hour 30 minutes
- Fixing date system so getEventLog will function properly. The initial implementation of how we used dates ended up not working, so this had to be tested/changed a bit.
30 minutes
- Fixing the time representation within the system to make timestamps conform to rfc3339. The way we saved time in the database caused the time for the timestamp to not be accurate enough.
30 minutes

Category 3: negligible

This extension was quite straightforward to implement. We added functionality to the SystemInformationService for logging requests and errors and retrieving these logs. Then we attached these methods to the api. When the api receives a request, this request will first be forwarded to the SystemInformationService, which will log the request. After this the request will proceed to go through the system as it normally would. When an error is thrown, the error logging method in the SystemInformationService is called, after which the error is returned to the request source. The time spent bug fixing was a bit longer than we intended, and most of it was not specifically related to the extension but more to the library (qbit) we used. Due to the way our system was set up it was quite easy to just insert these log methods in the system. No big design decisions really worked against us.

No big coding decisions were needed for this extension and no new libraries have been added.