

API Acceptance Test Document

Below are the acceptance tests as described by the teams greenlight document:

What does it test?	Testing Methodology	What qualifies as passing?	Signature
1. Does the API return the expected values in the case of valid input?	Provide valid input to API calls and ensure what is returned is what was expected of the caller.	The API calls return the expected result, with 2XX HTTP Codes. (See Section 4.3)	Mark Kapuscinski 5/11
2. Does the API meet the team's expectations for performance in terms of time/speed?	Execute calls to the API and time how long it takes to respond.	The API responds before a connection timeout. API response time is comparable to other QUEST system's response time.	Mark Kapuscinski 5/11
3. Can data entries with identical/similar fields be differentiated?	Create both identical test data, and test data that have some matching fields, and ensure that all of the API functions are working with the proper data entry.	The proper data entry was used in API functions (validated by the id). This is checked by viewing the data entries data table to confirm. All API Calls made in this test shall also return success criteria.	Mark Kapuscinski 5/11
4. Can data entries be accessed by users that do not have proper permissions?	Attempt to access information outside of permissions for various user types through API calls.	The API calls indicate the user does not have permission to modify or view information.	N/A
5. Can the program identify invalid input and prevent that input from being used in an API call?	Provide erroneous input to API calls and evaluate the result.	The API calls do not manipulate any data within the database, and a reason for why the API call is erroneous is provided.	Mark Kapuscinski 5/11
6. If functions receive invalid input can the team test to ensure a default process occurs instead of the function failing?	Provide erroneous input to API calls and evaluate the functionality of said API call by implementing a returned indication that a default process was triggered.	The API calls operate as well as they can with valid input through their default process (i.e. 'N/A' entries for invalid data) and the API calls themselves return default process indicator.	Mark Kapuscinski 5/11

For our testing procedures we have been using API calls from our team's API to interact with the database. Each test consisted of a series of calls containing JSON bodies that were used to fill in the database, these commands can be seen in the "test_commands.txt" file in qubit/qubitapi, and test the ability to store and retrieve data on various tables in the database.

For each test we saw successful storage and retrieval through our API, because of this we are signing off on 5 of our 6 acceptance tests.

As far as test 4 goes, we were not able to achieve the quality of response we sought after for our test 4 results to align with the corresponding 'What qualifies as passing?' section. While data access is restricted to logged in users, it is not discriminated by specific permission values. For this reason, we are not able to sign off on this specific test.