

TESTING REPORT

P06: OPEN SOURCE BACKEND IN RUST

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General Approach

We used both manual testing and automatic Testing for the project. The SDK was tested using 'npm link' in development to check if the user can properly use the commands the sdk provides, without any error. Automatic test cases for the SDK were also developed using Jest to test all our currently completed use cases and functions the sdk provides. The server was tested using the testing suite provided by the axum_test crate. A dummy server was deployed and API tested. Server tests can be run using cargo -- --test-threads=1.

SDK Testing

The following is the SDK Test report:

Test Report

Started: 2024-01-07 22:59:29

Suites (2)		Tests (12)	
<div><div></div><div>2 passed</div><div>0 failed</div><div>0 pending</div></div>		<div><div></div><div>12 passed</div><div>0 failed</div><div>0 pending</div></div>	
▼ /Users/macbookair/Desktop/p06-0pensource_Backend_In_Rust/Testing/sdk-automatic-tests/auth.test.js		3.368s	
Sign Up Test		passed	0.193s
Sign in Test		passed	2.084s
Sign out Test		passed	0.005s
▼ /Users/macbookair/Desktop/p06-0pensource_Backend_In_Rust/Testing/sdk-automatic-tests/CRUD.test.js		3.526s	
createCollection() and getCollectionNames() Test: Creating collections and getting Collection names		passed	0.786s
insertSingleFieldDoc() and getDoc() Test: inserting Doc of a single key,value pair		passed	0.017s
insertDoc() and deleteDoc() Test: Inserting Doc of Many Fields, and deleting a single document from a collection		passed	0.025s
insertField() Test: Inserting a single (key, value) pair field in a document in given collection		passed	0.014s
insertManyFields() Test: Inserting Multiple fields in a document in given collection		passed	0.014s
insertManyDocs() and getAllDocs() Test: Inserting many documents in a collection and getting all Docs from a collection		passed	0.013s
updateDoc() Test: updating multiple fields of a document		passed	0.01s
findDoc() Test: Finds all documents fulfilling the query, query is a single key, value pair		passed	0.008s
deleteCollection() Test: Delete all collections one by one from the Database		passed	0.035s

It can also be accessed on `./Development/Sprint-1/sdk-test-report.html` in our repository

Server Testing

```
Running unittests src/lib.rs (target/debug/deps/ezbase-d63e052461327eaf)

running 10 tests
test apis::auth_test::test_auth_api::test_signin ... ok
test apis::auth_test::test_auth_api::test_signup ... ok
test apis::collection_test::test_doc_api::test_collection ... ok
test apis::document_test::test_doc_api::test_delete_doc ... ok
test apis::document_test::test_doc_api::test_insert_many_docs ... ok
test apis::document_test::test_doc_api::test_insert_one_doc ... ok
test apis::document_test::test_doc_api::test_insert_one_doc_multifield ... ok
test apis::document_test::test_doc_api::test_insert_one_field ... ok
test apis::document_test::test_doc_api::test_search_doc_one_field ... ok
test apis::logs_test::test_logs_api::test_logs ... ok

test result: ok. 10 passed; 0 failed; 0 ignored; 0 measured; 0 filtered out; finished in 7.95s
```

The full terminal output for the tests can be found at
./Development/Sprint-1/server/test_report.txt