

Share Yourself Artists - Unit Test Report



Share Yourself Artists

Product Name: Share Yourself Artists
Team Name: SYA Team Flutter

Test 1: Navigator Test

In this test, we initialize a Launch Widget and start the app at the '/' route (the homepage). Then, we automate the press of the "Forgot Password" button. The unit test then verifies that the button was pressed, the correct route was taken, and the correct route was taken to take the user to the correct "Forgot Password" page.

Test 2: In Memory Test

In this unit test, we are calling to the `loadRole()` and `loadUid()` functions to test that either the Role and User ID was stored in the app, or that they were successfully retrieved from the database upon logging in or creating an account. The unit test will set the Role and User ID to 'dev' and 'tester', respectively, and call to getter functions that retrieve the data of the Role and User ID of the current build. Upon passing the test, the unit test will then reset the stored variables.

Test 3: View Artist Test

In this unit test, we call to functions that retrieve Artist data from the Firestore database in order to test that the SDK is functional. Using this SDK, we first retrieve one specific test document from the database, and parse its email into a variable. We then check this email against the static string of the email to ensure that we are both actually retrieving data, and that the data is correct. This works because users cannot change their emails upon account creation.

Test 4: View Business Test

In this unit test, we call to functions that retrieve Business data from the Firestore database to check that the SDK is functional. Although similar to the previous test, Business accounts have different fields and are created through different paths. To ensure more path coverage, we must also test the Business separately from the Artists. We use the SDK to retrieve the document of a specific test Business and parse its email into a variable. We check that variable against the static email itself to ensure that we are both retrieving data and that we are retrieving the correct data.

Test 5: Provide Feedback Test

In this unit test, we are testing the Business account's ability to receive art submissions. We are using the Firebase SDK to retrieve a specific test submission's document, and parsing its Title and Artist into variables. We are then checking that they are not null such that we actually retrieved data, and that the data is correct.