Deliverable #1

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Project: Glucosio

Tests Completed within Android Studio:

1. GlucosioApplicationTest
   a. 3 tests were included within this java file
      i. ShouldNotClearLanguage_WhenAlreadyDone
      ii. ShouldClearLanguage_WhenSetFromHelloActivityAndNotFixedYet
      iii. ShouldSaveLanguageClearedToPreferences_WhenItIsDone
   b. All tests were passed and completed in 887 ms
2. RobolectricTest
   a. Included a variety of test builds, however, if the option "All Tests" was chosen, the return stated that the test suite was empty
      i. If each individual test was run, then the code worked correctly
   b. A1CCalculatorActivityTest
      i. ReturnTrue_WhenKeyboardActionDone
      ii. Notify Presenter_WhenGlucoseValueChanged
      iii. ShouldAskPresenterToCheckUnit_When Created
      iv. ShouldBindViews_WhenCreated
      v. ShouldSetMmolToMolAsUnit_WhenUserSettingsIsPercentage
      vi. ReturnFalse_WhenKeyboardActionOther
      vii. All tests were passed in 1m 7s
   c. AssistantAdapterTest
      i. CallPresenter_WhenExportAsked
      ii. CallPresenter_WhenFeedbackAsked
      iii. CallPresenter_WhenA1CalculatorAsked
      iv. CallPresenter_WhenAddReadingAsked
      v. CorrectlyBindRows

vi. All tests passed 42s

d. BackupActivityTest

    i. ShouldDelegateToBackup_WhenDisconnectIsCalled

    ii. ShouldDelegateToBackup_WhenConnectIsCalled

    iii. ShouldDelegateToBackup_WhenActivityResultRecieved

    iv. ShouldInitBack_WhenCreated

    v. All tests passed 41s

e. HelloActivityTest

    i. ShouldReportAnalytics_WhenCreated

    ii. ShouldInitLanguageSpinner_WhenCreated

    iii. ShouldSelectLanguage_WhenCreated

    iv. ShouldPassNLAsLocale_WhenNLSelected

    v. ShouldBindView_WhenCreated

    vi. All tests passed 59s

f. MainActivityTest

    i. ShouldReportAnalytics_WhenCreated

    ii. Test passed 37s

g. PreferencesActivityTest

    i. ShouldReportAnalytics_WhenCreated

    ii. Test passed 38s

h. AssistantAdapterTest

    i. CallPresenter_WhenExportAsked

    ii. CallPresenter_WhenFeedbackAsked

    iii. CallPresenter_WhenA1CCalculatorAsked

    iv. CallPresenter_WhenAddReadingAsked

    v. CorrectlyBindRows

    vi. All tests passed 39s

i. BackupAdapterTest

    i. ReturnViewWithSizeFormatted_WhenAsked

ii. Test passed 30s

j. MigrationTest

    i. ProperlyMigrateUserFromVersion4

    ii. ProperlyMigrateGlucoseFromVersion4

    iii. ProperlyMigratePressureFromVersion4

    iv. ProperlyMigrateWeightFromVersion4

    v. ProperlymigrateCholesterolFromVersion4

    vi. All tests passed 314 ms

k. UserBuilderTest

    i. Builds user account

    ii. All tests passed 1s

l. AssistantFragmentTest

    i. ShouldUnBindViews_WhenDestroyed

    ii. ShouldBindViews_WhenCreated

    iii. Tests passed 36s

m. A1CCalculatorPresenterTest

    i. 9 tests passed 433ms

n. AssistantPresenterTest

    i. CallFragment_WhenUserAskedExport

    ii. CallFragment_WhenUserAskedSupport

    iii. CallFragment_WhenUserAskedToAddReading

    iv. CallFragment_WhenUserAskedToShowCalculator

    v. All passed 92s

o. ExternalViewPresenterTest

    i. shouldLoadOpenSourceLicenses_WhenLicenseParameters

    ii. shouldThrowException_WhenNoParameters

    iii. shouldInvokeShowNoConnectionWarning_WhenNetworkIsNotConnected

    iv. All passed 28s

       p. HelloPresenterTest

           i.   9 tests passed 28s

       q. OverviewPresenterTest

           i.   ShouldAddZerosBetweenReadings_WhenAsked

           ii.   ShouldSortReadingsChronologically_WhenAsked

           iii.   Tests passed 402ms

3. AndroidPhoneAppTests

       a. Required running emulators for test;

           i.   We are using an android emulator

       b. HelloActivityTest

       c. MainActivity Test

Test Speeds:

We noticed that as the test were run across multiple systems, the speeds were inconsistent. We have determined that there is nothing significant to be worried about and that the difference in testing speeds is most likely a result of being run on a specific machine.

Organization:

The project is organized in the following categories for which these tests were focused on.

- Activity
- Adapter
- Db
- Fragment
- Presenter
- Tools

Experience:

Overall, the project is fairly straightforward and easy to follow, Glucosio included plenty of documentation on how to set up and test/run their source code. The tests were thorough and easy to run, and I appreciated the pass/fail description for each subunit test. The ability to run all of the tests will need to be fixed for future runs, as that will allow testing to be more efficient, but I did not mind running the tests on their own as they are organized and easy to find in the directory. Of our group, Daniel L. owns a phone running an Android OS, so we hope to test on there.

Project:

The project is fairly robust and well organized. The developer made the code and terminology easy to follow with great documentation. I am personally excited to continue to work on this project and contribute to make the overall application better. We were able to run the app on an Android emulator, and hope to test on a physical Android device in the future.