**Unit Test Session Findings Report**

**Test procedure number: 1**

**Session Dates: 3/30/2016**

**The report was prepared by: Bryan Smith**

**Project Name: Iris – SWEG Capstone 2016**

**Software version: 1.0**

**The tested software sections: GmailUtils, PrefUtils, GmailAccount**

**The test team: Bryan Smith, Joe LaCava, Scott Arnette, Derek Ouzia**

**Related requirements: 4.1 - 4.10**

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| --- | --- | --- | --- |
| 1. **Test Procedure** | | | |
| # | Test Step Description | Expected Result | Passed |
|  | **Test GMailAccount UserID Constructor** | **Set the account objects User ID attribute to the value passed in the constructor.** | **P** |
|  | **Test GMailAccount current history ID Constructor** | **Set the account objects current History ID attribute to the value passed in the constructor.** | **P** |
|  | **Test GMailAccount UserID Setter/Getter** | **Set the account objects UserID attribute to the value passed in the setter function. Uses getter function to verify the value was set appropriately.** | **P** |
|  | **Test GmailAccount CurrentHistoryID Setter/Getter** | **Set the account objects CurrentHistoryID attribute to the value passed in the constructor.** | **P** |
|  | **Test Get Shared Preferences** | **Verifies that the shared preferences object produced by the android system is obtainable. This is what stores user settings.** | **P** |
|  | **Test Get/Set String preferences** | **Verifies that a string user preference can be set and retrieved.** | **p** |
|  | **Test Get/Set Float preferences** | **Verifies that a float user preference can be set and retrieved.** | **p** |
|  | **Test Get/Set Long preferences** | **Verifies that a long user preference can be set and retrieved.** | **p** |
|  | **Test Get/Set Boolean preferences** | **Verifies that a boolean user preference can be set and retrieved.** | **p** |
|  | **Test Get Key** | **Verifies that a preference key can be found using its id** | **p** |
|  | **Test Get Token** | **Verifies that the authentication token of a Gmail Account can be retrieved from the API** | **p** |
|  | **Test Get Gmail Service** | **Verifies that the Gmail API is able to correctly be accessed** | **P** |
|  | **Test Get Gmail Account Credential** | **Verify that the Gmail API can be accessed by an authorized user and the credential is returned that will allow for API data access.** | **P** |
|  | **Test Get Initial Gmail Account Credential** | **Verifies a blank Gmail Credential can be obtained. This is used for methods that require them, but are run before any users are logged in.** | **P** |
|  | **Test IrisVoiceService** | **Verifies that the IrisVoiceService was started and connected to correctly.** | **F** |

**Notes:**

**We had one failed test. This was not due to the logic but with the test itself. The Iris Voice Service is highly dependent on Android OS components that are handled mostly automatically and are not touched by us. After doing much research, we concluded that we would skip writing unit tests for the IrisVoiceService and other highly dependent sections. Instead we manually tested them by hand in integrations tests, in which they all passed. Writing the unit tests that were highly dependent on the Android OS was outside of out knowledge range and after much research, we needed to move on in order to finish the project, and not sink too much time in a few automated unit tests. It is unfortunate however, as much of our logic falls inside theses sections.**

