ENCRYPTION KEY GENERATOR APPLICATION ON ANDROID

**TEST PLAN**

**OBJECTIVES**

This document describes the various methods adopted for testing the Encryption Key Generator Application on Android and the features that will be tested during the test process. It also identifies the important criteria that the application must satisfy in order to pass the quality inspection.

**SCOPE OF TESTING**

* Testing is required for ensuring that all the functions are working as per specifications.
* The test procedure will check the operation of the various aspects of the application.

**BUSINESS FUNCTIONALITIES**

The tester needs to test the functionalities such as,

* Application loading and proper execution
* Displaying the new encryption key upon execution of the application
* Information is displayed correctly and concisely to the user
* Ensure that the keys displayed are unique and no repetition occurs

**INPUT AND OUTPUT MODULES**

* The encryption key generator application on android does not take any input from the user in order to generate and display the encryption key to the user.
* The output is the newly generated encryption key that must be legibly displayed to the user.
* The tester must ensure that the application performs key generation successfully and that it verifies the newly generated key against a list of previously generated keys stored in the database to prevent duplication.
* In the case of duplication, the application must run a key generation algorithm again until another unique encryption key is produced.
* Another factor to test is recording of previously generated keys in the database.

**PERFORMANCE**

* The application is intended to execute with minimum delay and provide fast access to the new encryption key. The testing process must ensure that this criterion is satisfied.
* The tester must ensure that the application will not affect the operations of the mobile device or reduce the responsiveness of other operations of the device.