

Lab 3 Outline – Care Corner Prototype Test Plan

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Version 1 Outline

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1. Objectives

The intent of this test plan and procedure is to ensure the approach to developing and testing the Care Corner prototype can lead to a successful demonstration of Care Corner's product operation. Care Corner will be an application that is installed and run on an Android smartphone. Care Corner will consist of readily available safety features that are designed to add an extra layer of protection for women in uncomfortable situations. The test procedures described in this document will be used to ensure the successful implementation of the Care Corner prototype. (O: Carpenter)

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2. References

Team Copper. (2020, December 7). Lab 1 - Care Corner Prototype Description. Retrieved March

29, 2021 from <https://www.cs.odu.edu/~411copper/images/lab1teamv2.pdf>

Team Copper. (2021, March 19). Lab 2 - Care Corner Prototype Product Specification. Retrieved

March 29, 2021 from <https://www.cs.odu.edu/~411copper/L2S3V2Team.pdf>

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4. Test Procedures

This test will verify the

4.1 User Authentication Test Category (O: Grissom)

These tests will verify User Authentication of the Care Corner application. The test verifies that the user can create an account and login to an account.

4.1.1 Account Creation Test (O: Grissom)

This test will verify the user can create a valid account. Furthermore, it will verify the “Invalid Username”, “Invalid Password”, “Invalid Email”, and “Missing Field” messages appear appropriately.

4.1.2 Login Test (O: Grissom)

This test will verify the user can login to an account. Furthermore, it will verify the “Incorrect Username” and “Incorrect Password” messages appear appropriately.

4.2 Panic Button Test Category (O: Adegun)

This test will verify the

4.2.1 Incident Creation Test (O: Prudner)

To verify that an incident is able to be created after ending a recording during the panic button process.

4.3 Armed Safe Walk Test (O: Adegun)

This test will verify the

4.4 Fake Phone Call (O: Webb)

This test will verify that all data inputted by the user (caller ID, phone number, voice recording, and wait time until call) on the Fake Phone Call menu follows through into the actual functionality and works as intended. This test will also verify that the user is asked to save the

audio/video recording and to check if when the end call button is held down for a few seconds, that the panic button is activated.

4.5 Journal Test Category (O: Carpenter)

This test will verify the functionality of the journal feature in the Care Corner application. The test verifies that the user can create, read, edit, and delete user created journal entries.

4.6 Mombot Test Category (O: Prudner)

To verify that Mombot returns contextualized advice and checklists for related keywords. This test exercises Mombot's lexical analyzer ability to match pertinent advice and potential checklists.

4.7 Reporting Assistance Test Category (O: Carpenter)

This test will verify the functionality of the reporting assistance feature in the Care Corner application. The test verifies that the incidents created from the panic button are stored accurately for the user to find them.

4.8 Resources Test Category (O: Carpenter)

This test will verify the functionality of the resources feature in the Care Corner application. The test verifies that the resources pulled from the Care Corner API are showing up and can be filtered to find shelters, government sources, national hotlines, and blogs.

4.9 Audio/Video recording Test (O: Turner)

This will test the ability to record Audio/Video, store it locally, and pass it to the Care Corner API for cloud storage.

4.10 GPS Test (O: Turner)

This will test the ability to track the user's location via their device's GPS, store this GPS data locally, and pass it to the Care Corner API for cloud storage.

4.11 Notification Test (O: Webb)

This test will verify the functionality of the notification system by testing that SMS messages are sent to preset contacts every three minutes containing information about the user such as the user's name, location, current timestamp, and estimated time of arrival to their destination when either the Panic Button or Armed Safe Walk are activated. This test will also verify that preset contacts receive a final SMS message when the user reaches their destination and the Panic Button and Armed Safe Walk deactivates correctly.

