GBMstats test plan

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Purpose

The purpose of this document is to outline the test strategy and overall test approach for GBMstats. This also includes the execution strategy.

Project overview

GBMstats is an android software application that provides access to its users, allowing them to view and monitor CCTV camera.

Audience

The audience of this document is security personnel. This document is also written for the extended test team. It is intended to accomplish its purpose only for the intended audiences.

Test plan 1(Signup a user):

Purpose: The purpose of this test case is to sign up a user.

Precondition: Since the user has to enter correct credentials for storage in the database, the personnel has to enter a username that isn’t already being used, has to enter a correct email format, enter a password with a minimum of 6 characters and confirm password that matches with the password entered. Internet is required for successful registering of user information.

Steps: The user enters his/her information as required. From one text-field to the other, leaving none of the 6 text-fields blank.

Results: If credentials are appropriately entered, a message would appear to update user of successful signup.

Test plan 2(Login):

Purpose: The purpose of this test case is to login a registered user.

Precondition: For a successful login, the user must be already signed up. So, if an unregistered user tries to login, and enters a wrong credential, the transition would be halted. The user has to enter the same credentials that was entered during sign up. Internet is also required for success.

Steps: The user enters his username and password. Password is case sensitive, while the username is not.

Results: If login was successful or not, a circular rotation appears to notify user about his/her progress. If successful, user is redirected to the menu, if not, transition is halted and user remains on the login page.

Test plan 3(Forgotten Password):

Purpose: The purpose of this test case is to allow the user to retrieve a forgotten password.

Precondition: The user is prompted to enter an email, so it checks if the email entered by the use is valid or the

Steps: There is only one text field (email). The user has to enter an email before clicking to send.

Results: If the user enters a valid email, a message appears on the screen notifying user of a sent email. Next user is taken back to the previous page.

Test plan 4(Turn on Bluetooth Settings):

Purpose: The purpose of this test case is to allow the user to turn on the Bluetooth.

Precondition: The user has to click on the check mark that reads “Enable/Disable Bluetooth”, if Bluetooth was previously turned off, it changes its state, if not, it remains turned on.

Steps: The user selects the check mark.

Results: The Bluetooth is turned on if preciously off, or remains the same if already turned on.

Test plan 5(Enable discovery):

Purpose: The purpose of this test case is to enable Bluetooth discovery and scan for other devices (In this case, pairing with the raspberry pi).

Precondition: It checks if user Bluetooth permission for API 23 isn’t enabled.

Steps: When user clicks on the “Enable discoverable”, it turns on discoverable and begins scanning for other devices.

Results: If other devices are found, it is displayed below the button. Small messages are displayed below the screen to update the user about progress.

Test plan 6(View user profile):

Purpose: The purpose of this test case is to retrieve the user credentials saved in the database and allow the user to view or update it.

Precondition: If user is updating profile, it checks if the username is already being used and if the email format is valid.

Steps: User has the option of filling in four text-fields or just viewing it. If the user chooses to change information, after editing his/her information, the user has to click save for the changes to be made.

Results: If save is successful, the user interface is returned back to the previous page.

Test plan 7(About):

Purpose: This test case briefs the user about the developers.

Precondition: N/A

Steps: The user has to select this option from the menu.

Results: If option is selected, the user interface would transition to information about the developers.

Test plan 8(Facial/Fingerprint Recognition):

Purpose: This test case allows the user to initialize the pi-camera for facial recognition.

Precondition: N/A

Steps: N/A

Results: N/A

Test plan 9(Logout):

Purpose: This test case allows the logged in user to log out.

Precondition: User has to be logged in, to see this option.

Steps: N/A

Results: If user clicks on this option, he/she is logged out and taken back to the login page.