CENG 319 – Milestone 3

GreenSense – RAD Technologies (Ryan, Aiden, Daniel)

Test Plan

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| Test Case # | Test Case Description | Test Steps | Test Data | Expected Result | Actual Result | Pass/Fail |
| 1 | Check login when valid email/password is entered | 1) user clicks homescreen icon  2) login screen displays  3) user enters email and password  4) user clicks login | Email:  [greensense@gmail.com](mailto:greensense@gmail.com)  Password:  Admin123 | Login will be successful. Main menu/activity will appear with toolbar at the top, greenhouse image, and several buttons. | As expected | Pass |
| 2 | Check login when invalid email/password is entered | 1) user clicks homescreen icon  2) login screen displays  3) user enters email and password  4) user clicks login | Email:  [test@hotmail.com](mailto:test@hotmail.com)  Password:  Test123  (test values could be anything different than test case 1) | Toast will display saying “Authentication failed, please check email/password.” App will stay on the login screen. | As expected | Pass |
| 3 | Check login when email is left empty | 1) user clicks homescreen icon  2) login screen displays  3) user leaves email field blank  4) user enters password  5) user clicks login | Email:  \*leave blank  Password:  Password123  (test password could be anything) | Toast will display at the bottom of the screen saying “Enter email!” App will stay on the login screen. | As expected | Pass |
| 4 | Check login when password is left empty | 1) user clicks homescreen icon  2) login screen displays  3) user enters email  4) user leaves password field blank  5) user clicks login | Email:  [email@gmail.com](mailto:email@gmail.com)  Password:  \*leave blank  (test email could be anything) | Toast will display at the bottom of the screen saying “Enter password!” App will stay on the login screen. | As expected | Pass |
| 5 | Check guest login button behavior | 1) user clicks homescreen icon  2) login screen displays  3) user clicks “Continue as Guest”  button | N/A | Guest main menu/activity will be displayed along with the toolbar at the top. | As Expected. (Guest menu not implemented yet) | Pass |
| 6 | Check response when sign out option is selected | 1) user is logged in  2) user is within any activity  3) user clicks overflow menu in the top right of toolbar  4) user clicks “Sign Out” button | Any activity except login | User will be signed out of app. Login screen will be displayed with empty data fields. | As expected. Verified for all specified activities. | Pass |
| 7 | Check response when help option is selected | 1) user is logged in  2) user is within any activity  3) user clicks overflow menu in the top right of toolbar  4) user clicks “Help” button | Any activity except login | Internet browser will be opened. Webpage “How to Maintain a Greenhouse” from wikihow.com will be displayed (this is a placeholder website). | As expected. Verified for all specified activities. | Pass |
| 8 | Check behavior when camera button is pressed | 1) user is logged in  2) user is within any activity  3) user clicks camera icon in top right of toolbar | Any activity except login | Camera will open from within the app. It will not ask for user permission as it is currently allowed. User will be able to take a picture and confirm. | As expected. Verified for all specified activities. | Pass |
| 9 | Check behavior when Greenhouse 1 button is pressed | 1) user is logged in  2) user is within main menu  3) user clicks “View Greenhouse 1” button | N/A | Greenhouse 1 screen/activity will display. Buttons to view sensor readings or control the system will display. | As expected | Pass |
| 10 | Check behavior when Greenhouse 2 button is pressed | 1) user is logged in  2) user is within main menu  3) user clicks “View Greenhouse 2” button | N/A | Greenhouse 2 screen/activity will display. Buttons to view sensor readings or control the system will display. | As expected | Pass |
| 11 | Check response when Temp, Humidity, and Moisture button is pressed (Greenhouse 1) | 1) user is logged in  2) user is within Greenhouse 1 screen  3) user clicks “Temperature, Humidity, and Moisture” button | N/A | Greenhouse 1 sensor readings screen/activity will display. Sample values will display for each sensor. The seekbars will adjust to display each value. | As expected | Pass |
| 12 | Check response when Temp, Humidity, and Moisture button is pressed (Greenhouse 2) | 1) user is logged in  2) user is within Greenhouse 2 screen  3) user clicks “Temperature, Humidity, and Moisture” button | N/A | Greenhouse 2 sensor readings screen/activity will display. Sample values will display for each sensor. The seekbars will adjust to display each value. | As expected | Pass |
| 13 | Check response when Manual Control button is pressed (Greenhouse 1) | 1) user is logged in  2) user is within Greenhouse 1 screen  3) user clicks “Manual Control” button | N/A | Greenhouse 1 effector control screen/activity will display. Sample controls with seekbars will display (no functionality yet). | As expected | Pass |
| 14 | Check response when Manual Control button is pressed (Greenhouse 2) | 1) user is logged in  2) user is within Greenhouse 2 screen  3) user clicks “Manual Control” button | N/A | Greenhouse 2 effector control screen/activity will display. Sample controls with seekbars will display (no functionality yet). | As expected | Pass |
| 15 | Check behavior when Up Button is pressed | 1) user is logged in  2) user is within any activity  3) user clicks “Up” arrow in the top left of the toolbar | Any activity except main menu and login | User is taken back to main menu. | As expected. Verified for all specified activities. | Pass |
| 16 | Check behavior when user leaves app then returns to it | - user is logged in  - user is within any activity  - user clicks “Home” button on phone  - user is returned to phone’s home screen  - user opens browser (or another app)  - user exits the browser (or other chosen app)  - user clicks homescreen icon | N/A | When the user leaves the app, it should stay in its current state. When the user returns to the app, it should return to the same screen/activity it was on previously. | As expected. Verified for all activities. | Pass |