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| Unit testing H2O Crop Graphical User Interface (GUI) | | | | | | |
| Unit Tested | Testing Procedure | Tools | Expected Results | Pass/Fail | Error | Corrective Action |
| 1. Login Page | 1. Run Application 2. Enter Username and Password | 1. Computer (laptop)  2. Ionic 2 lab application | If Username and Password Correct go to home page if not, do not allow to move on to next page. | Pass | N/A | N/A |
| 1. Register Page | 1. Run application 2. Press create new account button in login page 3. Fill in fields 4. Press register Button | 1. Computer (laptop)  2. Ionic 2 lab application | If all fields are filled out press register button and it leads you back to login page if fields are not filled, then button can’t be pushed. Back arrow takes you to login page. | Pass | N/A | N/A |
| 1. Forgot Password Page | 1. Run application 2. Press Forgot Password and Username button in login page 3. Fill in fields 4. Press Send Button | 1. Computer (laptop)  2. Ionic 2 lab application | If all fields are filled out press send button and it leads you back to login page if fields are not filled, then button can’t be pushed. Back arrow takes you to login page. | Fail | Button can be pushed even though fields are not filled out | In HTML make field required to enable button |
| 1. Forgot Password Page | 1. Run application 2. Press Forgot Password and Username button in login page 3. Fill in fields | 1. Computer (laptop)  2. Ionic 2 lab application | If all fields are filled out press send button and it leads you back to login page if fields are not filled, then button can’t be pushed. Back arrow takes you to login page. | Pass | N/A | N/A |
| 1. Side Menu | 1. Run application 2. Enter Login Information 3. Press menu button 4. Press each tab 5. Close side menu | 1. Computer (laptop)  2. Ionic 2 lab application | Verify that each tab takes you to correct application  Home: Home Page  Account Info: Account Info Page  Logout: Login Page  And that it can be closed with swipe to the left | Pass | N/A | N/A |
| 1. Home Page | 1. Run application 2. Enter Login Information 3. Press buttons | 1. Computer (laptop)  2. Ionic 2 lab application | Verify that users name is displayed with welcome message. Verify that buttons take you to correct page:  Menu button takes you to Side Menu.  Add button takes you to add Page  Account Info: Settings Page  Logout: Login Page | Pass | N/A | N/A |
| 1. Account Info Page | 1. Run application 2. Enter Login Information 3. Press menu button 4. Press Account Info Page 5. Press done button | 1. Computer (laptop)  2. Ionic 2 lab application | Verify that all account information is displayed and done button takes you back to Home Page | Fail | Name Field is blank | Correct variable for name in code |
| 1. Account Info Page | 1. Run application 2. Enter Login Information 3. Press menu button 4. Press Account Info Page 5. Press done button | 1. Computer (laptop)  2. Ionic 2 lab application | Verify that all account information is displayed and done button takes you back to Home Page | Pass | N/A | N/A |
| 1. Add Page | 1. Run application 2. Enter Login Information 3. Press Add Button in Home Page 4. Fill in fields, press add buttons and press done button | 1. Computer (laptop)  2. Ionic 2 lab application | Verify that fields are shown and can be filled out. Verify that first add button takes you to Add Farm Page and that Second button takes you to Add Irrigation Zone Page. Verify that Add button takes you to Home Page and presents entered information. | Pass | N/A | N/A |
| 1. Add Farm Page | 1. Run application 2. Enter Login Information 3. Press Add Button in Home Page 4. Press Add Farm button in Add Page 5. Fill in fields, press add button | 1. Computer (laptop)  2. Ionic 2 lab application | Verify that fields are shown and can be filled out. Verify that add button is disabled until all fields are filled out. Add button takes you back to Add Page with farm name value field entered. | Pass | N/A | N/A |
| 1. Add Irrigation Zone Page | 1. Run application 2. Enter Login Information 3. Press Add Button in Home Page 4. Press Add Irrigation Zone button in Add Page 5. Fill in fields, press add button | 1. Computer (laptop)  2. Ionic 2 lab application | Verify that fields are shown and can be filled out. Verify that add button is disabled until all fields are filled out. Add button takes you back to Add Page with farm name value field entered. | Pass | N/A | N/A |
| 1. Farm, Irrigation Zone, Crop Entry and Edit and Delete buttons | 1. Run application 2. Enter Login Information 3. Press Add Button in Home Page 4. Fill in fields, press add buttons and press done button 5. Swipe to left 6. Press on crop in home page | 1. Computer (laptop)  2. Ionic 2 lab application | Verify that information is displayed in Home Page. Verify that swiping information to the left reveals edit and delete buttons. Pressing edit button opens edit alert window with current values to be edited. Pressing save, changes values in home page. Pressing cancel just closes window. Pressing delete button removes values from homepage. Clicking on crop takes you to Daily Rec. Page | Pass | N/A | N/A |
| 1. Daily Rec Page | 1. Run application 2. Enter Login Information 3. Press Add Button in Home Page 4. Fill in fields, press add buttons and press done button 5. Click on crop entry 6. Press Buttons | 1. Computer (laptop)  2. Ionic 2 lab application | Verify that clicking on crop entry takes you to Daily Rec Page. Verify that Chart is displayed as well as farm name and crop.  Verify recommended field is presented with a Value and can be modified  Verify that calendar button takes you to Crop History Page and that Irrigate button takes you to home page. Verify that arrow takes you back to Home Page. | Pass | N/A | N/A |
| 1. Crop History Page | 1. Run application 2. Enter Login Information 3. Press Add Button in Home Page 4. Fill in fields, press add buttons and press done button 5. Click on crop entry 6. Press History Button 7. Press Back Button | 1. Computer (laptop)  2. Ionic 2 lab application | Verify that crop name and farm is presented as well as chart and chart data. Verify that arrow takes you back to Daily Rec Page.  Verify that calendar button takes you to Crop History Page and that Irrigate button takes you to home page. Verify that arrow takes you back to Home Page. | Pass | N/A | N/A |