

**WaterMe**  
**Use-Case Specification: Request Humidity**

**Version 1.1**

## Revision History

Date	Version	Description	Author
31/Mai/2017	1.0	First version	Paul Giesa
13/Juni/2017	1.1	Tests added	Olga Akymenko

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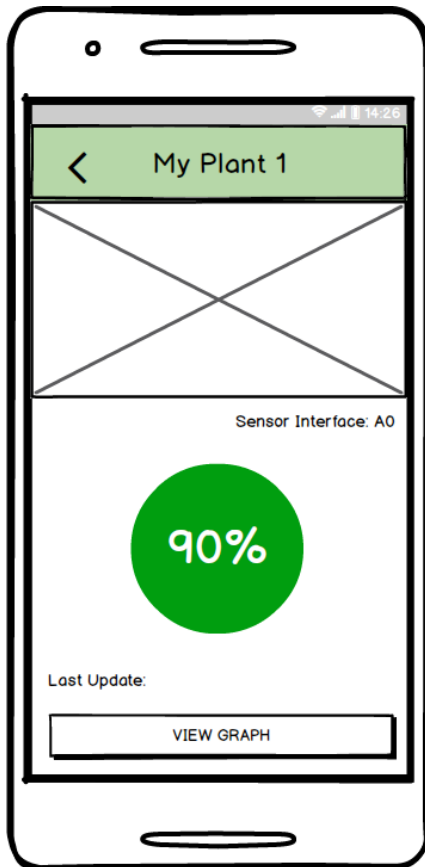
# Use-Case Specification: Show Humidity Diagram

## 1. Use-Case Name

### 1.1 Brief Description

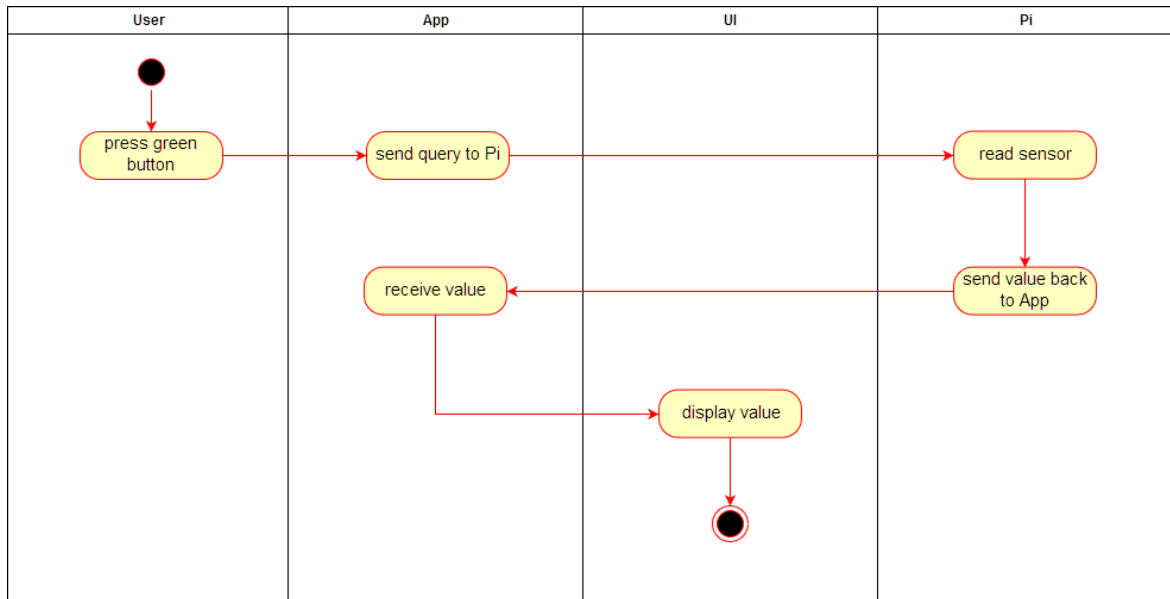
The user is able to receive the current humidity level.

### 1.2 Mockup



## 2. Flow of Events

### 2.1 Basic Flow



## 3. Espresso test

```
package com.project.gta.demo;

import android.support.test.espresso.ViewInteraction;
import android.support.test.rule.ActivityTestRule;
import android.support.test.runner.AndroidJUnit4;
import android.test.suitebuilder.annotation.LargeTest;

import org.junit.Rule;
import org.junit.Test;
import org.junit.runner.RunWith;

import static android.support.test.espresso.Espresso.onView;
import static android.support.test.espresso.action.ViewActions.click;
import static android.support.test.espresso.matcher.ViewMatchers.isDisplayed;
import static android.support.test.espresso.matcher.ViewMatchers.withContentDescription;
import static android.support.test.espresso.matcher.ViewMatchers.withId;
import static android.support.test.espresso.matcher.ViewMatchers.withParent;
import static android.support.test.espresso.matcher.ViewMatchers.withText;
import static org.hamcrest.Matchers.allOf;

@LargeTest
@RunWith(AndroidJUnit4.class)
public class UCVisitHelpMenu {

    @Rule
    public ActivityTestRule<MainMenu> mActivityTestRule = new
    ActivityTestRule<>(MainMenu.class);

    @Test
```

```

public void ucVisithelpMenu() {
    ViewInteraction appCompatButton = onView(
        allOf(withId(R.id.BTNhelp), withText("Help"),
            withParent(allOf(withId(R.id.mainmenu),
                withParent(withId(R.id.activity_main_menu))))),
            isDisplayed()));
    appCompatButton.perform(click());

    ViewInteraction appCompatButton2 = onView(
        allOf(withId(R.id.BTNhelpBluetoothPi), withText("Enable Bluetooth
and connect Pi"), isDisplayed()));
    appCompatButton2.perform(click());

    ViewInteraction appCompatImageButton = onView(
        allOf(withContentDescription("Nach oben"),
            withParent(allOf(withId(R.id.action_bar),
                withParent(withId(R.id.action_bar_container))))),
            isDisplayed()));
    appCompatImageButton.perform(click());

    ViewInteraction appCompatButton3 = onView(
        allOf(withId(R.id.BTNhelp), withText("Help"),
            withParent(allOf(withId(R.id.mainmenu),
                withParent(withId(R.id.activity_main_menu))))),
            isDisplayed()));
    appCompatButton3.perform(click());

    ViewInteraction appCompatButton4 = onView(
        allOf(withId(R.id.BTNhelpInstallPi), withText("Install Pi"),
            isDisplayed()));
    appCompatButton4.perform(click());

    ViewInteraction appCompatImageButton2 = onView(
        allOf(withContentDescription("Nach oben"),
            withParent(allOf(withId(R.id.action_bar),
                withParent(withId(R.id.action_bar_container))))),
            isDisplayed()));
    appCompatImageButton2.perform(click());

    ViewInteraction appCompatButton5 = onView(
        allOf(withId(R.id.BTNhelp), withText("Help"),
            withParent(allOf(withId(R.id.mainmenu),
                withParent(withId(R.id.activity_main_menu))))),
            isDisplayed()));
    appCompatButton5.perform(click());

    ViewInteraction appCompatButton6 = onView(
        allOf(withId(R.id.BTNhelpAddPlant), withText("Add plant"),
            isDisplayed()));
    appCompatButton6.perform(click());

    ViewInteraction appCompatImageButton3 = onView(
        allOf(withContentDescription("Nach oben"),
            withParent(allOf(withId(R.id.action_bar),
                withParent(withId(R.id.action_bar_container))))),
            isDisplayed()));
    appCompatImageButton3.perform(click());
}

```

```

ViewInteraction appCompatButton7 = onView(
    allOf(withId(R.id.BTNhelp), withText("Help"),
        withParent(allOf(withId(R.id.mainmenu),
            withParent(withId(R.id.activity_main_menu)))),
        isDisplayed()));
appCompatButton7.perform(click());

ViewInteraction appCompatButton8 = onView(
    allOf(withId(R.id.BTNhelpAskus), withText("Ask Us"),
        withParent(allOf(withId(R.id.activity_help_menu),
            withParent(withId(android.R.id.content)))),
        isDisplayed()));
appCompatButton8.perform(click());

ViewInteraction appCompatImageButton4 = onView(
    allOf(withContentDescription("Nach oben"),
        withParent(allOf(withId(R.id.action_bar),
            withParent(withId(R.id.action_bar_container)))),
        isDisplayed()));
appCompatImageButton4.perform(click());
}

}

```

#### 4. Preconditions

The app needs an active connection to the Pi. Also the user has to enter the “Single Plant Menu”.

#### 5. Postconditions

The green button will show the humidity.

#### 6. FP-Calculation

**Domain Characteristic Table**

MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	<input type="text" value="0"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Outputs	<input type="text" value="0"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of User Inquiries	<input type="text" value="3"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of Files	<input type="text" value="0"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Number of External Interfaces	<input type="text" value="1"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

[Complexity Adjustment Table](#) | [FP Calculation](#)