WaterMe
Use-Case Specification: Enable Alarm

Version 1.0

Revision History

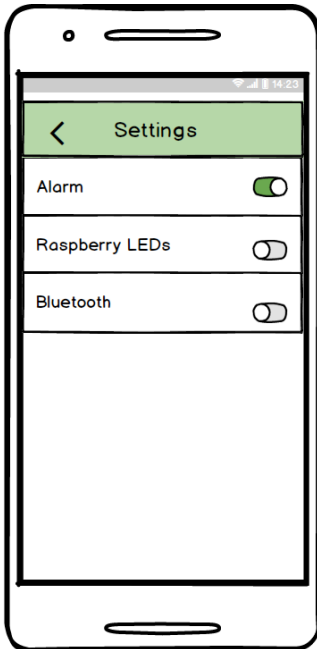| Date	Version	Description	Author
31/Mai/2017	1.0	First Version	Paul Giesa
13/Juni/2017	1.1	Espresso test added	Olga Akymenko

Table of Contents

Use-Case Specification: Enable Alarm

1. Use-Case Name

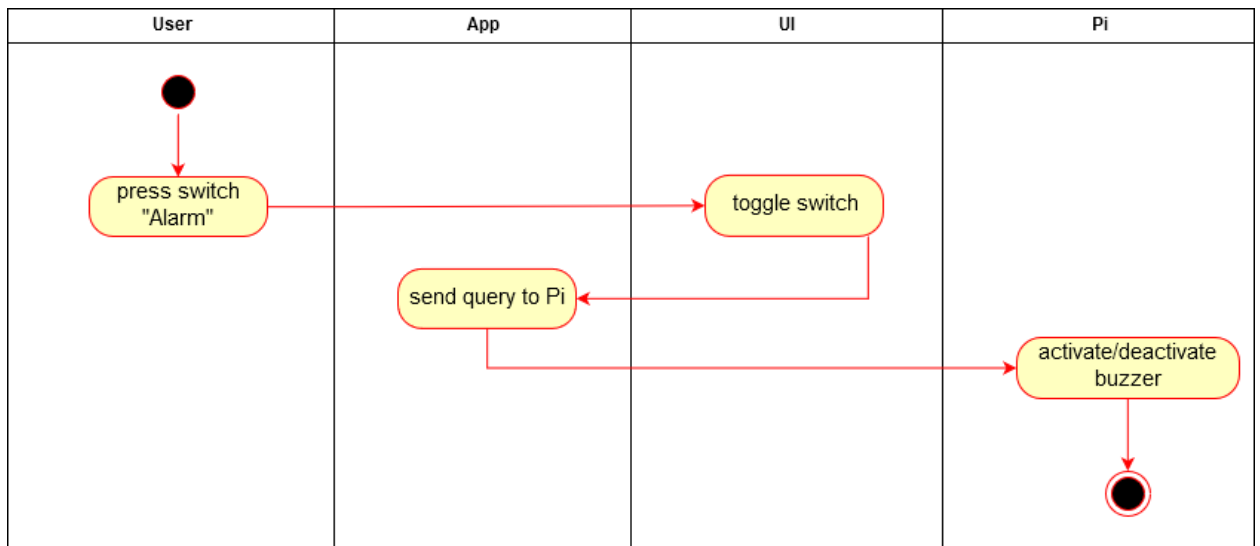### 1.1 Brief Description
The user can decide whether the buzzer should make sounds when the humidity level is critical.

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.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 UCEnableAlarm {

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

    @Test
    public void uCEnableAlarm() {
        ViewInteraction appCompatButton = onView(
                allOf(withId(R.id.BTNsettings), withText("Settings"),
                        withParent(allOf(withId(R.id.mainmenu),

withParent(withId(R.id.activity_main_menu)))),
                        isDisplayed()));
        appCompatButton.perform(click());

        ViewInteraction switch_ = onView(
                allOf(withId(R.id.SWsounds), isDisplayed()));
        switch_.perform(click());

    }

}
```

4.   Preconditions

The app needs an active connection to the Pi. Also the user has to enter the "Settings Menu".

5.   Postconditions

Either the alarm is activated or deactivated.

6. Function Points

Domain Characteristic Table

MEASUREMENT PARAMETER	COUNT (value >= 0)	WEIGHTING FACTOR		
		Simple	Average	Complex
Number of User Input	0	●	○	○
Number of User Outputs	0	●	○	○
Number of User Inquiries	2	●	○	○
Number of Files	0	●	○	○
Number of External Interfaces	1	○	●	○

Complexity Adjustment Table | FP Calculation