

GTA-Group

Water Me
Use-Case Specification: Manage plants

Version 1.2

Revision History

Date	Version	Description	Author
04/Dez/2016	1.0		Olga Akymenko
08/Dez/2016	1.1	Added Espresso test and mockup	Chris Todt
19/Dez/2016	1.2	Changed Diagramm	Olga Akymenko

Table of Contents

Manage plants	4
Brief Description	4
Mockup	4
Flow of Events	5
Basic Flow	5
Alternative Flows	6
Espresso test	6
Special requirements	8
Preconditions	8
Gallery	8
Postconditions	8
Avatar/Information	8
Humidity data	8
Extension Points	8

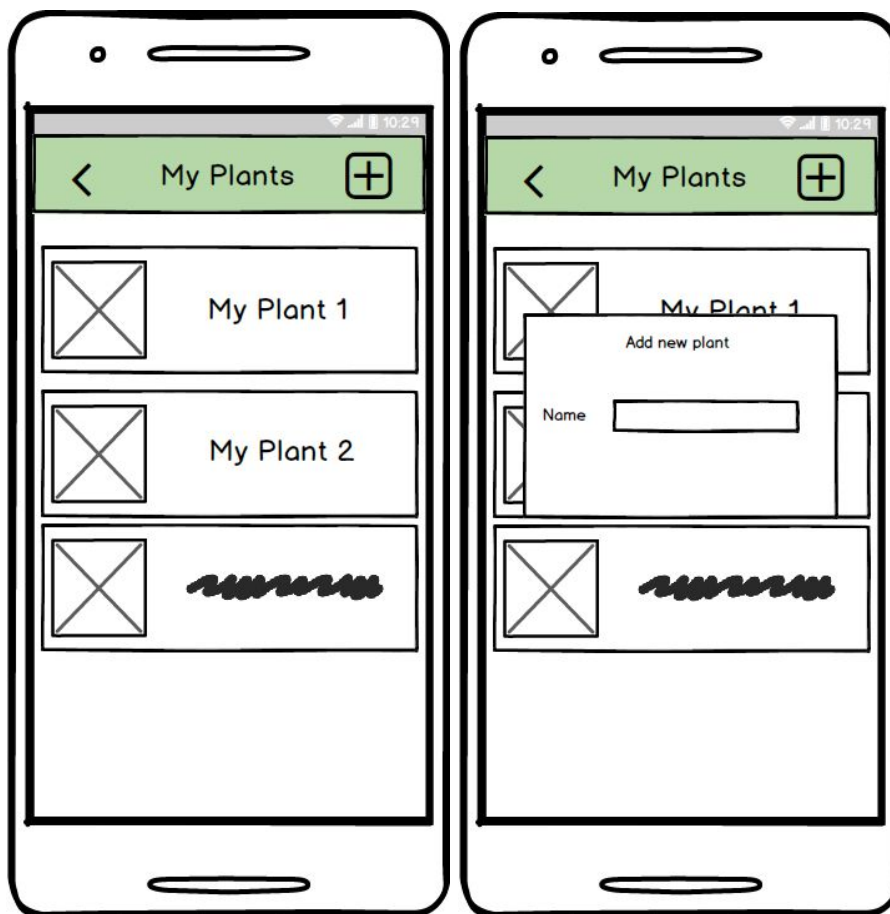
Use-Case Specification: Manage plants

1. Manage plants

1.1 Brief Description

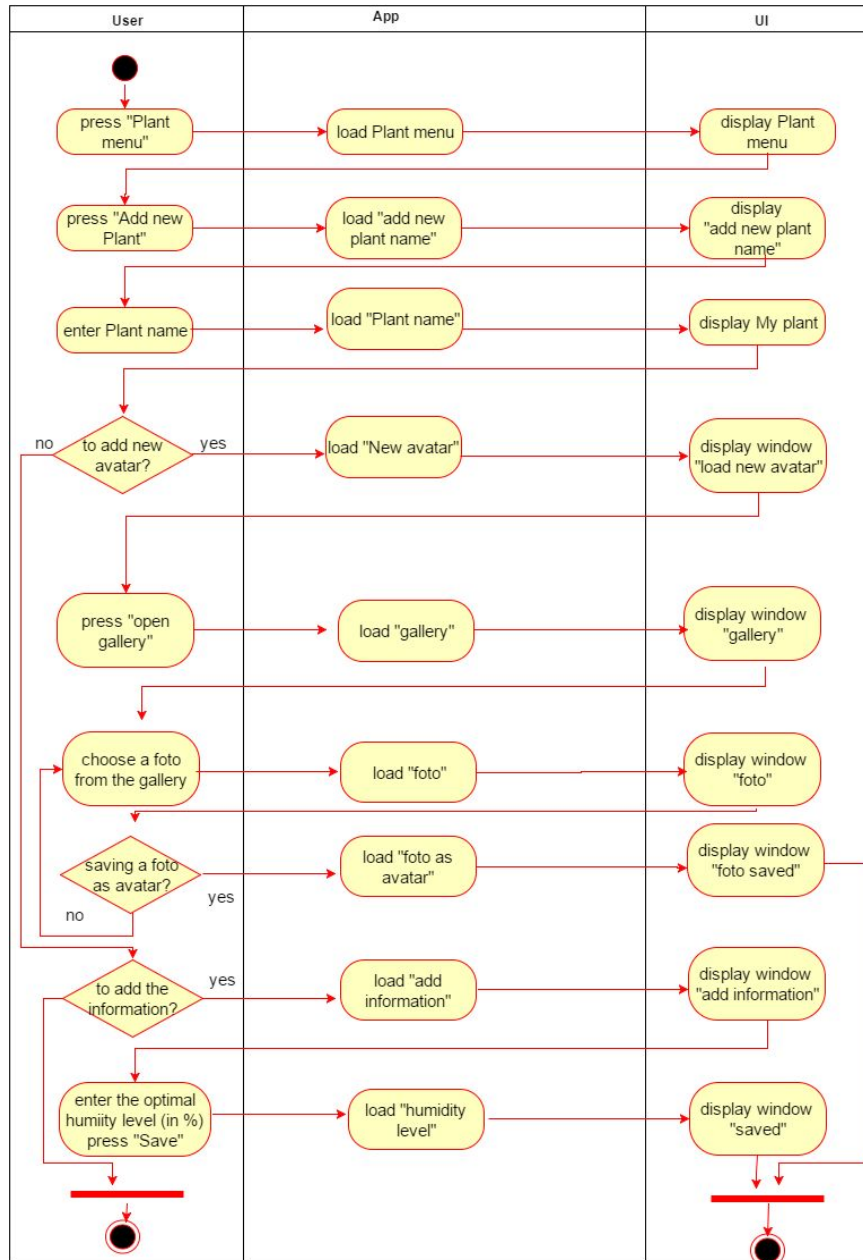
User has the ability to add a new plant in the list. Also, change the image and add information about the plant (the optimum humidity level).

1.2 Mockup



2. Flow of Events

2.1 Basic Flow



2.2 Alternative Flows

(n/a)

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 android.view.View;
import android.view.ViewGroup;
import android.view.ViewParent;

import org.hamcrest.Description;
import org.hamcrest.Matcher;
import org.hamcrest.TypeSafeMatcher;
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 UCManagePlants {

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

    @Test
    public void uCManagePlants() {
        ViewInteraction appCompatButton = onView(
            allOf(withId(R.id.BTNmyplants), withText("My plants"),
                withParent(allOf(withId(R.id.mainmenu),
                    withParent(withId(R.id.activity_main_menu))))),
                isDisplayed());
        appCompatButton.perform(click());
    }
}
```

```
ViewInteraction tableLayout = onView(
    allOf(childAtPosition(
        allOf(withId(R.id.LSTplants),
            withParent(withId(R.id.activity_plant_menu))),
        0),
        isDisplayed()));
tableLayout.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());
}

private static Matcher<View> childAtPosition(
    final Matcher<View> parentMatcher, final int position) {

    return new TypeSafeMatcher<View>() {
        @Override
        public void describeTo(Description description) {
            description.appendText("Child at position " + position + " in parent ");
            parentMatcher.describeTo(description);
        }

        @Override
        public boolean matchesSafely(View view) {
            ViewParent parent = view.getParent();
            return parent instanceof ViewGroup && parentMatcher.matches(parent)
                && view.equals(((ViewGroup) parent).getChildAt(position));
        }
    };
}
}
```

4. Special requirements

(n/a)

5. Preconditions

5.1 Gallery

User has installed the application and is in the "Plant menu". The phone has at least one photo in the gallery.

6. Postconditions

6.1 Avatar/Information

The plant will be have avatar.

6.2 Humidity data

The information about the level of humidity data will help to ensure that the user would received a message about the need for watering in time.

7. Extension Points

(n/a)