

GTA-Group

Water Me
Use-Case Specification: Manage plants

Version 1.1

Revision History

Date	Version	Description	Author
04/Dez/2016	1.0		Olga Akymenko
08/Dez/2016	1.1	Added Espresso test	Chris Todt

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Use-Case Specification: Manage plants

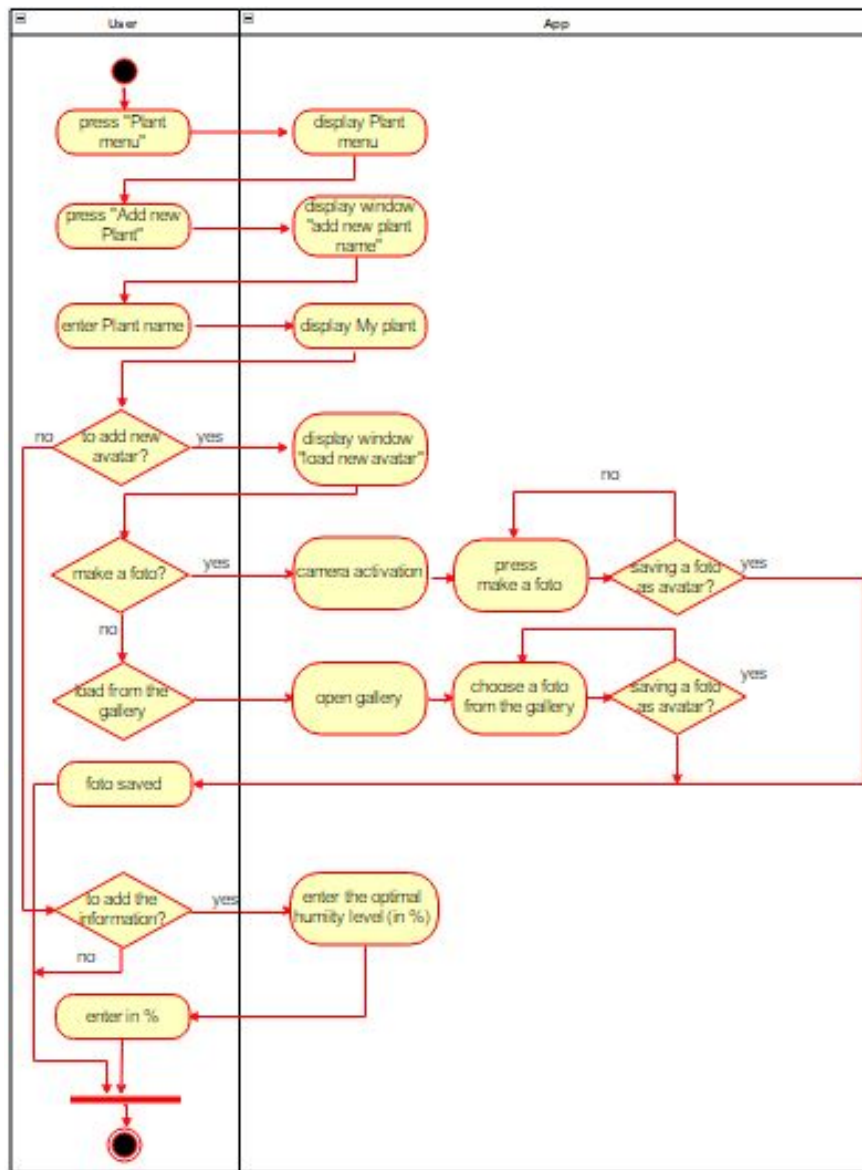
1. Use-Case Name

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).

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 UManagePlants {

    @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(withIdContentDescription("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 Camera/Foto

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

6. Postconditions

6.1 Avatar/Information

The plant will be a 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)