

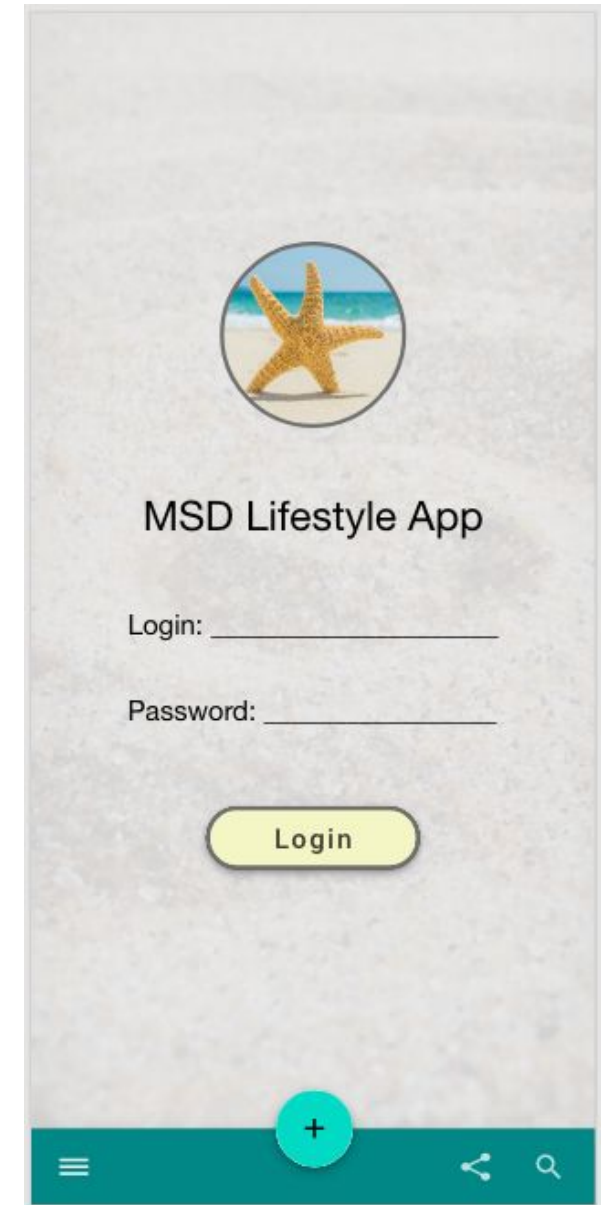
IT'S NOT JUST AN APP,  
IT'S A LIFESTYLE

# GROUP 1

- Team Lead: Jonathan Sullivan
- Design Lead: Bob Allan
- Test Lead: Sam Bauter

# DESIGN

- For our mock-up I used Adobe XD
- There are many resources available to help create realistic Android designs



# DESIGN

- We want our app to be clean, colorful, and easy to use.



# DESIGN

- Vertical-only orientation
- There are many popular fitness apps, like Strava and MyFitnessPal that are vertical-only

MY PROFILE

Update Photo

Name: \_\_\_\_\_

Age: \_\_\_\_\_

City: \_\_\_\_\_

Country: \_\_\_\_\_

Height: \_\_\_\_\_

Weight: \_\_\_\_\_

Gender: \_\_\_\_\_

Lifestyle Save


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# DESIGN

- BMI button is unnecessary, the calculation can be done in with the profile data.
- Our design has evolved to meet client requests by adding sliders and removing text fields.

WEIGHT MANAGEMENT CALCULATOR



Current Weight: \_\_\_\_\_

Goal Weight: \_\_\_\_\_

Height: \_\_\_\_\_

Sedentary/Active: Sedentary ▼

Lbs to Lose Per Week: \_\_\_\_\_





Basal Metabolic Rate: \_\_\_\_\_

Daily Calories to Achieve Goal: \_\_\_\_\_


Current BMI: \_\_\_\_\_

Lifestyle

Calculate



WEIGHT MANAGEMENT CALCULATOR



Calculations based on a weight of XXX pounds and a height of XX inches.

Pounds To Change Per Week:  
\_\_\_\_\_

☒ Active ☐ Sedentary

Daily Calories to Achieve Goal:  
\_\_\_\_\_

Basal Metabolic Rate:  
\_\_\_\_\_

Current BMI:  
\_\_\_\_\_

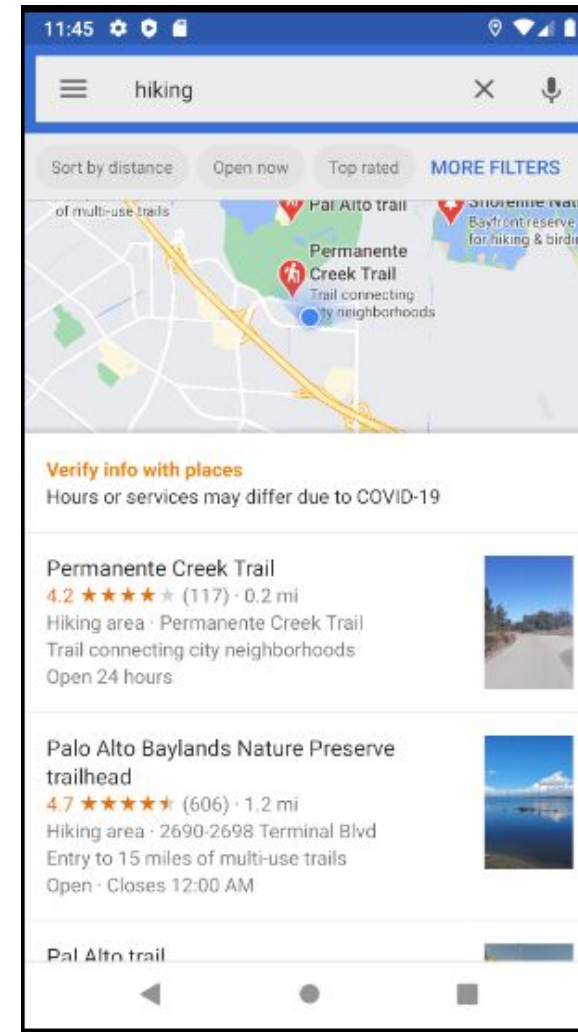
LIFESTYLE

CALCULATE



# DESIGN

- Google Maps API is as easy as pie




# DESIGN

- Weather API is not as easy as pie, but it will look nice once we sort it out





# DESIGN



MSD Lifestyle App


Login: \_\_\_\_\_

Password: \_\_\_\_\_

Login

MY PROFILE

Update Photo



Name: \_\_\_\_\_

Age: \_\_\_\_\_

City: \_\_\_\_\_

Country: \_\_\_\_\_


Height: \_\_\_\_\_

Weight: \_\_\_\_\_

Gender: \_\_\_\_\_

Lifestyle Save

WEIGHT MANAGEMENT CALCULATOR



Current Weight: \_\_\_\_\_

Goal Weight: \_\_\_\_\_

Height: \_\_\_\_\_

Sedentary/Active: Sedentary ▾

Lbs to Lose Per Week: \_\_\_\_\_


Basal Metabolic Rate: \_\_\_\_\_

Daily Calories to Achieve Goal: \_\_\_\_\_

Current BMI: \_\_\_\_\_

Lifestyle Calculate

LIFESTYLE TOOLS



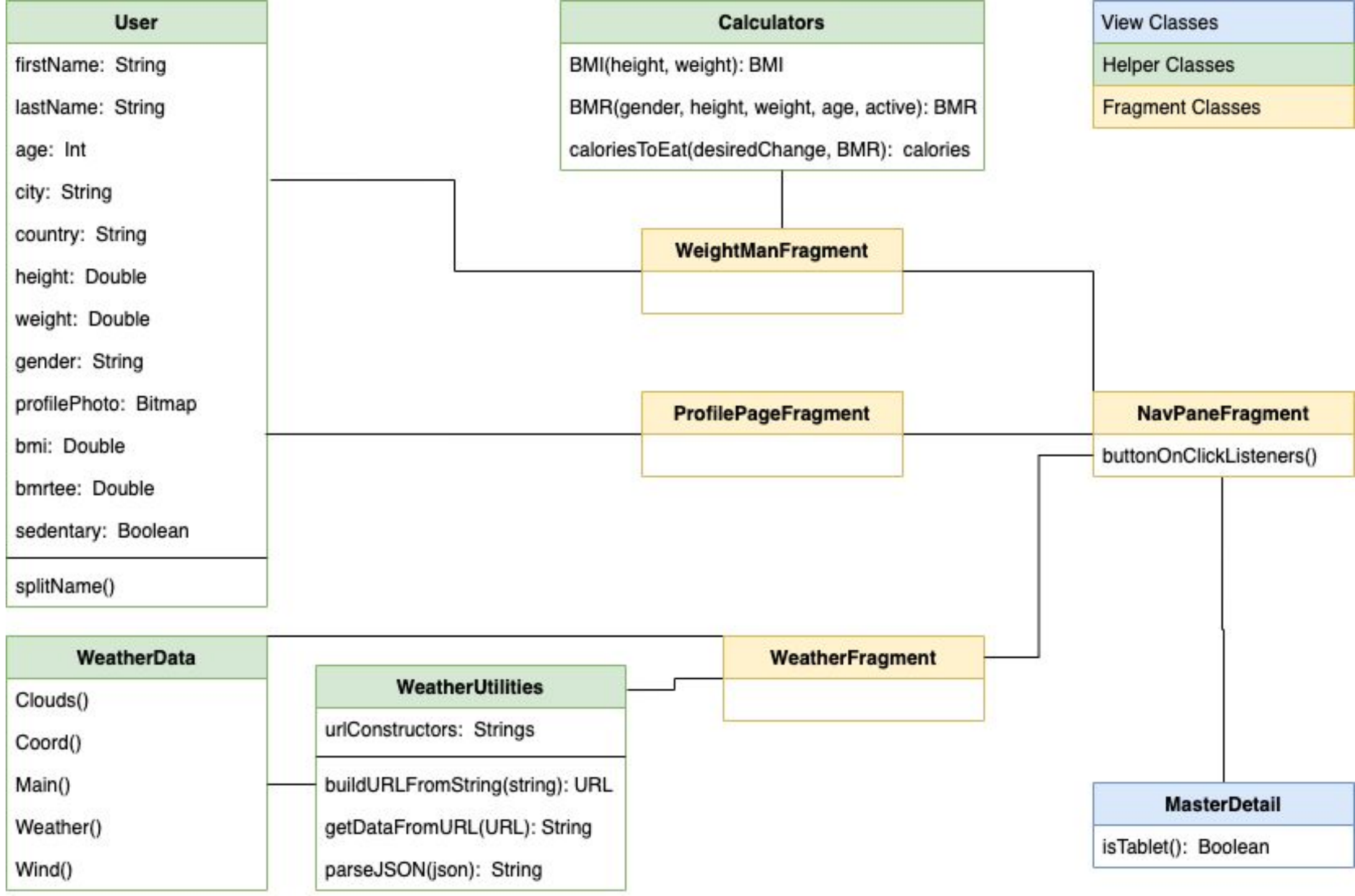
My Profile

Weight Management

Nearby Hikes

Local Weather

# CLASS DIAGRAM



# CLASS CHOICES

- User data class
  - Allows for additional future users
  - Kotlin automatically generates getters/setters
- Weight-related calculator helper class
  - Static functions that can be called from anywhere
- Weather data class
  - Easier to parse JSON with Gson
  - Supported by weather helper class functions

# BUGS AND THEIR FIXES

- Activities were not scrollable on smaller screens
  - Include ScrollView tags
- Profile male/female radio buttons not radioing
  - Do not put a LinearLayout inside of a RadioGroup, instead use the orientation attribute of RadioGroup
- Camera crashing when attempting to launch from profile activity
  - Does not actually seem to be app-related. Possible issues with emulators / API versions.
- Input field text does not go away when field selected
  - Use “hints” rather than “text”
- Managing GitHub for multiple users is complicated
  - Branches are your friend

# TESTS AND TESTING

Two Main types of test in Android Development:

- Normal JVM Testing
  - Tests simple functionality of Java helper classes and other non-Android API tests.
  - Faster Runtimes! Only requires the JVM to run testing rather than emulating a full android environment.
- Instrumented Tests
  - Versatile testing strategy that allows you to test Android features and capabilities
  - Can test user interactions with the device.
  - Ex: ViewMatcher methods: withId, withText, isDisplayed, isChecked etc
  - Ex: ViewAction methods: click, typeText etc

# A SIMPLE INSTRUMENTED TEST

```
import androidx.test.espresso.ViewInteraction;
import androidx.test.ext.junit.rules.ActivityScenarioRule;
import androidx.test.ext.junit.runners.AndroidJUnit4;
import org.junit.Rule;
import org.junit.Test;
import org.junit.runner.RunWith;
import static androidx.test.espresso.assertion.ViewAssertions.*;
import static org.hamcrest.Matchers.*;
import static androidx.test.espresso.Espresso.*;
import static androidx.test.espresso.action.ViewActions.*;
import static androidx.test.espresso.matcher.ViewMatchers.*;

@RunWith(AndroidJUnit4.class)
public class MasterDetailClickTests {
    @Rule
    public ActivityScenarioRule<MasterDetail> masterActRule = new ActivityScenarioRule<>(MasterDetail.class);

    @Test
    public void clickMyProf(){
        ViewInteraction moveToMyProfBtn = onView(withId(R.id.my_prof_btn_frag));
        moveToMyProfBtn.perform(click());
        onView(withId(R.id.title_my_prof_frag)).check(matches(withText(containsString(substring: "MY PROFILE"))));
    }
}
```