

## **Description of the Application**

Title: What to Wear

My goal for this app is to find the user's location, and then suggest a top and bottom article of clothing based on the weather in the user's location. I think that finding the weather forecast for a given location will be the most difficult part. I want to try to avoid using weather API's and find something within the Android SDK that will allow me to pull weather data based on a location. After fetching the forecast, the app will suggest 2 pieces of clothing (a top and bottom) that will be based on the temperature and precipitation retrieved from the forecast.

## **Algorithm / Workflow**

Upon launching the app, the user's location will be determined, and the exact longitude and latitude will be saved. The app will open to a simple home screen with a button titled, "What to wear".

Clicking the button will force the app to retrieve, specifically the temperature and humidity based on the user's longitude and latitude. After the humidity and temperature is determined, a top and bottom article of clothing will be chosen. For example, if temperature is above 70 degrees Fahrenheit and humidity is below 20%, the app will always suggest a t-shirt and shorts. If the temperature is less than 70 degrees but greater than 50 degrees and humidity remains at 20%, a long sleeve shirt and shorts will be suggested to the user. There will be roughly 5-7 cases for humidity and temperature combinations that will evaluate what types of clothes are suggested to the user.

Once a suggestion has been determined, a picture and text description will appear for each article of clothing.

## **Possible improvements**

- Link to google search of that article of clothing so user could see more suggestions
- Allow user to save different locations