Phase 2: Class/Test Diagram

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UI Automator (main)

- Run through the activity level spinner and assert that the matching activity level is updated and displayed in the window
- Click on the hike button with UI Automator and visually inspect that the map opens
- Click on the weather button with UI Automator and visually inspect that the weather updates and the weather.gov site opens, unfortunately given the constantly changing nature of nature, it is impossible to predict the weather that will be output to the screen

Click Edit Button

Main Activity

onCreate(savedInstanceState: Bundle?)

UI Automator (profile)

- Input first name, and assert first name text view matches
- Input last name and assert last name text view matches
- update age date and height and and assert that the energy requirements are as expected (for both male and female)
- Update the activity level and assert that the text view in the main frag is correct
- Take a picture and visually inspect that the profile image is updated appropriately

Click Save Button

MainFrag

- mSharedViewModel: SharedViewModel
- mTvUsername: TextView
- mlvThumbnail: ImageView
- mTvBMR: TextView
- mTvActivityLevel: TextView
- mActivityLevels = arrayOf<String>
- mFusedLocationClient: FusedLocationProviderClient
- mLatitude: Double mLongitude: Double
- mBoxWeather: RelativeLayout
- mTvWeather: TextView
- mHistoricalAve: String
- onCreateView(inflater: LayoutInflater, container: ViewGroup?, savedInstanceState: Bundle?)
- userObserver: Observer<User>
- liveWeatherObserver:
- Observer<JsonWeather>
- flowObserver: Observer<Double> onItemSelected(parent: AdapterView<*>?,
- other: View?, pos: Int, id: Long)
- onNothingSelected(parent: AdapterView<*>?)
- onClick(view: View)
- openWeatherIntent()
- getHikes()
- getWeather()
- hikesRequestPermissionLauncher
- weatherRequestPermissionLauncher

ProfileFrag

- mSharedViewModel: SharedViewModel
- mEtFirstName: EditText
- mEtLastName: EditText
- mNpAge: NumberPicker
- mNpHeight: NumberPicker
- mNpWeight: NumberPicker
- mSpActivityLevel: Spinner mRgSex: RadioGroup
- mRbMale: RadioButton
- mRbFemale: RadioButton
- mTvLocation: TextView
- mlvProfilePic: ImageView
- mProfilePicPath: String
- mFusedLocationClient:
- FusedLocationProviderClient
- mLongitude: Double
- observerAlreadyRan: Boolean
- onCreateView(inflater: LayoutInflater, container: ViewGroup?, savedInstanceState: Bundle?)
- userObserver: Observer<User>
- onClick(view: View)
- getAddress(lat: Double, lng: Double): String
- cameraLauncher
- saveImage(finalBitmap: Bitmap?): String
- isExternalStorageWritable: Boolean
- getLocation()
- requestPermissionLauncher

sedentary: Double mildActivity: Double moderateActivity: Double heavyActivity: Double extremeActivity: Double calculateBMR(age: Int, height: Int, weight: Int, isMale: Boolean): Double calculateAdjustedBMR(baseBMR: Double, actLvl: Int) : String calculateCaloriesSedentary(bmr: Double): Double calculateCaloriesMildActivity(bmr: Double): Double calculateCaloriesModerateActivity(bmr: Double): Double calculateCaloriesHeavyActivity(bmr: Double): Double calculateCaloriesExtremeActivity(bmr: Double): Double SharedViewModel(private val repository:

SharedRepository): ViewModel()

userInfo: LiveData<User>

SharedViewModel

JUnit 5

Calculate mild, moderate, heavy, extreme

BMR

Calculate BMR for men and women

Calculate BMR for Men

- aveTemp: LiveData<Double>
- liveWeather: LiveData<JsonWeather>
- updateUser(user: User)
- getWeather(location: Location)
- getCityId(): Int
- weatherData: LiveData<JsonWeather> SharedViewModelFactory(private val repository: SharedRepository):

ViewModelProvider.Factory

JsonWeather

- coord: Coord,
- weather: List<Weather>,
- base: String,
- main: Main,
- visibility: Int,
- wind: Wind,
- rain: Rain,
- clouds: Clouds,
- dt: Int,
- sys: Sys, timeZone: Int,
- id: Int,
- name: String,
- cod: Int
- Coord Weather
- Main
- Wind Rain
- Clouds
- Sys

NetworkUtils

- BASE URL
- LONQUERY APPIDQUERY
- app_id
- buildURLFromString(lat: Double, Ion: Double):
- getDataFromURL(url: URL): String?

