

Assignment 4

40 Points

Due: October 12, 2022 @ 11:59 PM

In this assignment, you will convert your existing XML based layouts to Jetpack Compose. No new functionality will be added. The views should look exactly like they do in Assignment 3.

Part 0 – Setup

Add the necessary dependencies to your module level build.gradle file:

```
implementation 'androidx.compose.ui:ui:1.2.1'
implementation 'androidx.compose.ui:ui-tooling:1.2.1'
implementation 'androidx.compose.foundation:foundation:1.2.1'
implementation 'androidx.compose.runtime:runtime-livedata:1.2.1'
implementation 'androidx.compose.material:material:1.2.1'
implementation 'androidx.activity:activity-compose:1.5.1'
implementation 'androidx.lifecycle:lifecycle-viewmodel-compose:2.5.1'
implementation 'androidx.navigation:navigation-compose:2.5.2'
```

Update your module level build.gradle to enable the following features:

```
android {
    buildFeatures {
        compose true
    }

    composeOptions {
        kotlinCompilerExtensionVersion '1.3.1'
    }
}
```

Part 1 – Implementation

Start by converting your CurrentConditionsFragment into a CurrentConditions composable function. Get it displaying the same content attached only to the MainActivity. Next, convert your ForecastFragment to a Forecast composable function. Then implement a navigation graph and put both your CurrentConditions and Forecast composables in the NavHost. Set the CurrentConditions composable as the default. Then implement navigation from the CurrentConditions composable to the Forecast composable.

Requirements

- The appearance of the User Interface should be the same as Assignment 3.

- The application must compile and run without modification.
- You must use Jetpack Compose to implement your views. You should have at the very minimum three functions annotated with the `@Composable` annotation: `CurrentConditions`, `Forecast`, and `ForecastItem`.

Points

- 30 – all requirements met
- 5 – good code formatting and style
- 5 – proper use of Git and Github PRs

Git Instructions

- In Github merge your PR for Assignment 3 into your main branch.
- In Android studio on the command line checkout out your main branch: `git checkout main`
- Then pull the newest version of the main branch: `git pull`
- Create and checkout the branch for Assignment 4: `git checkout -b assignment4`
- Implement the assignment
- Add your changes to the staging area: `git add .`
- Commit your changes: `git commit -m "Commit message"`
- Push your changes to Github: `git push origin assignment4`
- Go to Github and create your PR
- Submit the link to your PR to D2L