Android Fundamentals Project:

Time Calculator

In this project, I created a time calculator. The time calculator calculates basic operations (such as addition, subtraction, multiplication and division) involving time. Some example operations are as follows:

addition/subtraction: 1hr: 2min: 96sec + 2hr: 0min: 52sec = 3hr: 4min: 28sec

multiplication/division with constant: 1hr: 50min: 42sec x 2 = 3hr: 41min: 24sec

proper formatting: 0.1hr :200.55min: 2000sec = 3hr: 59min: 53sec
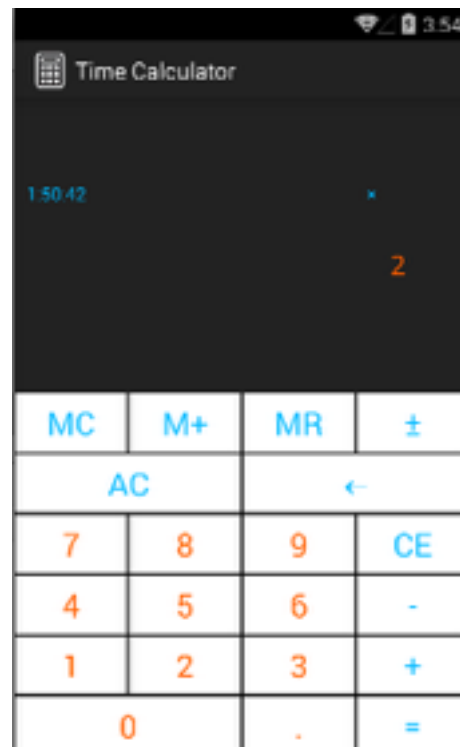
Often times, we need to perform such operations involving time. A time calculator app can be a very handy utilities for usage like this.

Mocks:

The apps consists of two different screen views. One view is to enter the time, i.e. Time View, and the second view is to enter the constant, i.e. Factor View, as shown below.
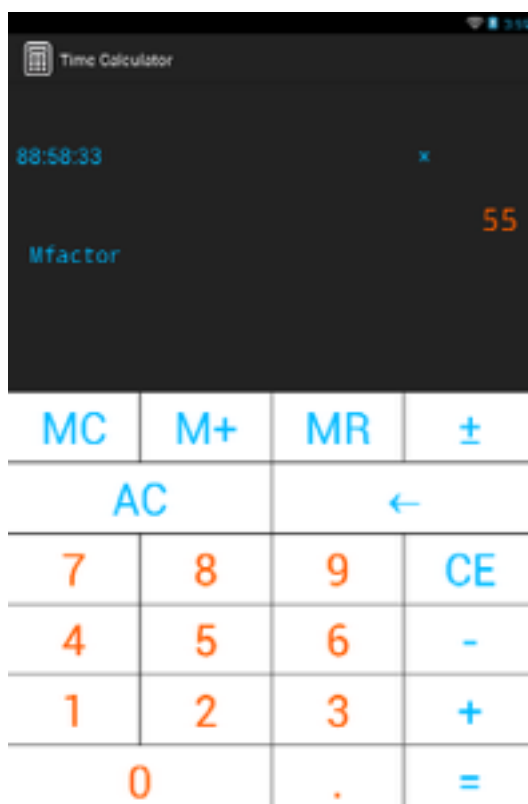

Time View

Factor View

The default view of the app is Time View. Whenever multiplication or division button is pressed, the app will enter into the Factor View. A total of 8 views are created as follows 4 screen layout:

- Horizontal Layout

- Landscape Layout

- Horizontal Layout for sw600dp

- Landscape Layout for sw600dp

The major difference between the regular screen and large screen size views are the difference in button sizes and text sizes. Some examples are provided below:

Landscape layout Time View

sw600dp Horizontal Layout Factor View

sw600dp Landscape Time View

The app was created following the guidelines mentioned in the rubric. Please note that even though the app does not require the use of a content provider, to meet the project requirement, I introduced a content provider for the Memory related operations. I did not make use of any SyncAdapter since the app does not retrieve/sends data to any web service.