

Mobile Assignment 1

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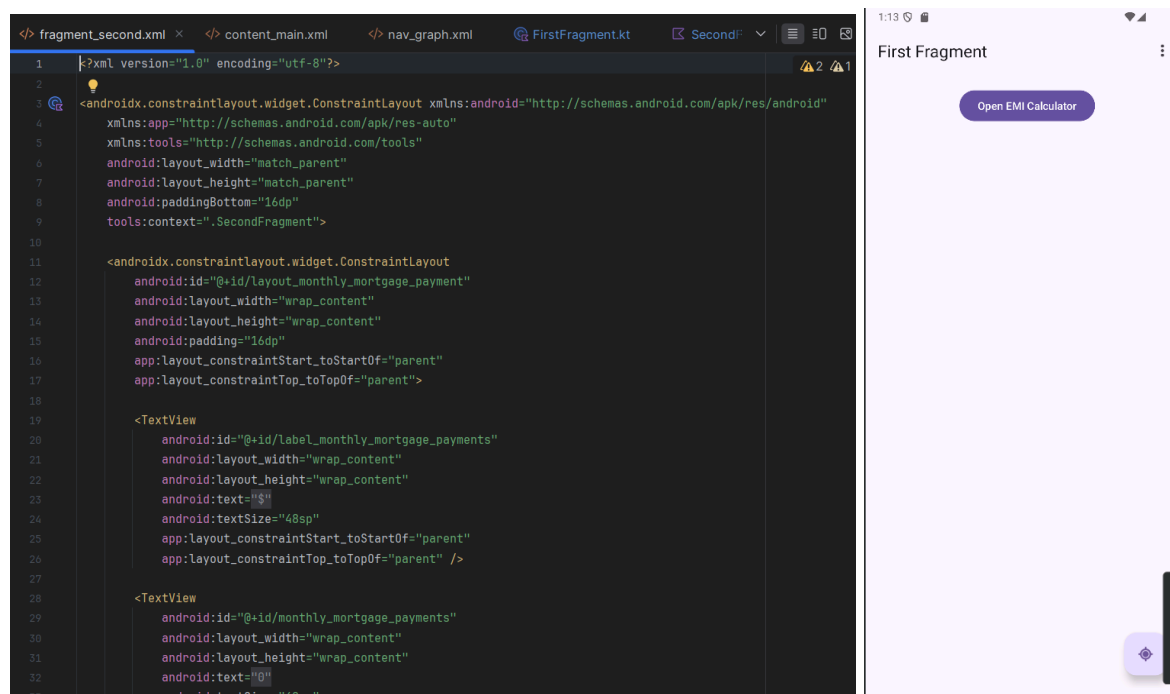
CRN: 44434

GitHub: <https://github.com/okikio-school/mobile-app-assignments>

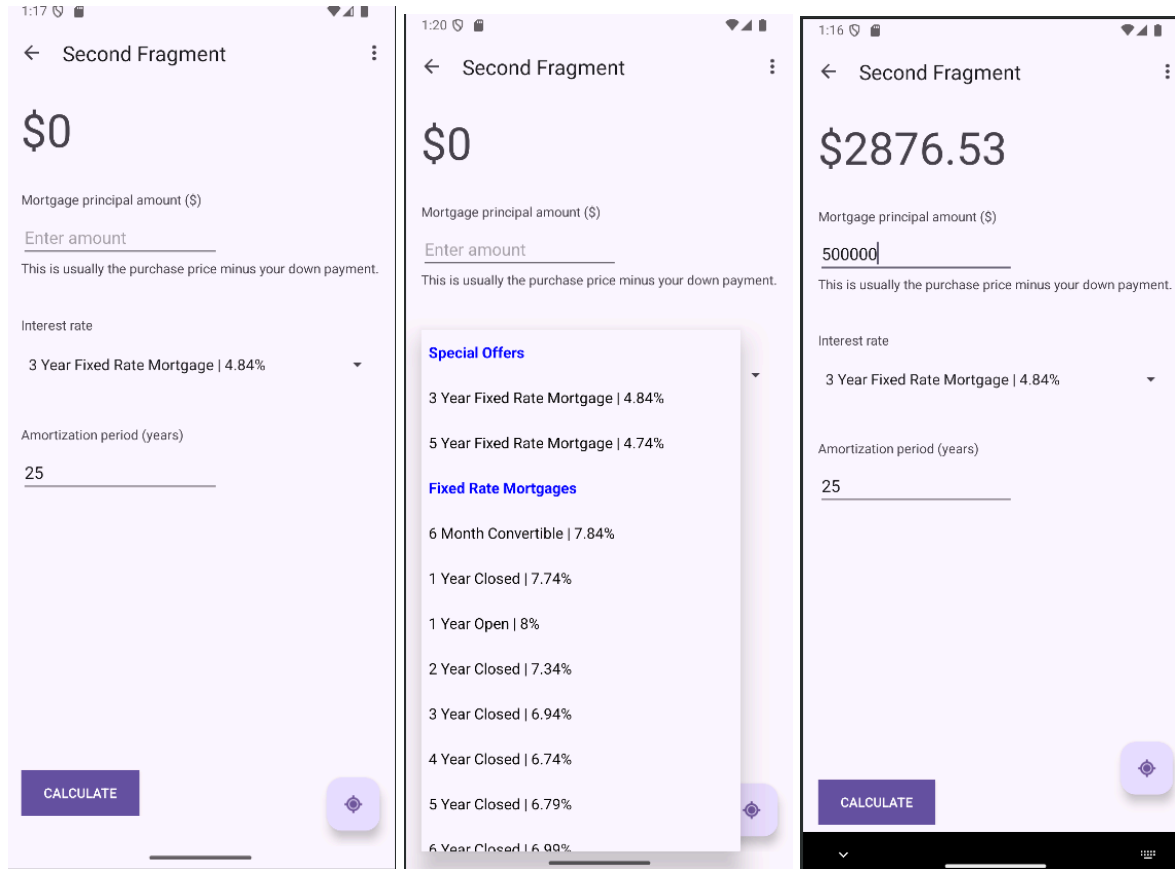
For layouts I used constraint layout to group items together almost like a container for a set of items, I then used padding to create space between all the items.

For intent, I modified the fragments floating action button to open Google Maps using an intent.

To open the EMI Calculator click the “Open EMI Calculator” button



A key difference in my approach is that the EMI Calculator is designed to explicitly be as precise as possible. In my calculations I am using a precision of 8 decimal places, so the TD Bank result is slightly different from the result I get.



The most complex part of the app was the Spinner dropdown view. As it supports groups, headers, and is able to be broken down into its interest rate and the year for said interest til maturity.

To get it to work I had to use the ArrayAdapter with custom method overrides for the isEnabled, the getView (for the currently selected item) and the getDropDownView (for the other non-selected items in the dropdown) functions, which allowed me to make the groups blue and bold. To identify the group headers I added a custom prefix to the group items that were meant to be the headers I then in the custom override methods called a `.contains`` to check for the prefix, if the prefix was found then I would assume that was the group header and apply the styling.