

Studio1

CSE 438

Spring 2020

1 Introduction

You have been tasked with making an app to track information for a new financial startup: Bottoms at the Top Financial Investors. The goal of the app is to be able to deposit and withdraw money from a single account and to display the current balance of the single user's account.

2 Resources

The below links may be helpful in completing the assignment.

- [Google Code Lab Fragments](#)
- [Google Code Lab Activities](#)
- [Android Documentation on Intents](#)
- [Android Documentation on Fragments](#)

3 Assignment

1. Begin by creating a new app for this studio. Be sure to select Kotlin as the language of the project and NOT java.
2. Using a Constraint Layout, create Text Fields for the header and Savings total as well as a button. Also have a value to track the total value in the account.
3. Create a second Activity, ManageActivity and give the button on Main-Activity functionality to navigate to the ManageActivity with the total value. (You may want to look into using extras and intents here)
4. Using a constraint layout, create a container for fragments within the ManageActivity and create a button to toggle between fragments.
5. Create two fragments, DepositFragment and WithdrawFragment

6. Each of the two fragments should have a button that will redirect to the MainActivity and update the displayed total on the MainActivity based on the value input into the textbox. The DepositFragment should add to the user's total and the WithdrawFragment should subtract from the user's total when the transaction is submitted

4 Hints

The below code is used to get data from an intent within a fragment. Note that intents are part of activities and NOT fragments so we have to reference activities through fragments in order to access intents.

```
val intent = activity!!.intent
total = intent!!.getIntExtra("total", 0)
```

There is a similar implementation for creating intents within fragments.

```
val intent = Intent (activity, MainActivity::class.java)
intent.putExtra("total", total)
activity!!.startActivity(intent)
```

5 Requirements

- A MainActivity that displays the current total on the account
- A button that redirects from the MainActivity to another activity
- A separate ManageActivity for withdrawing and depositing money into the account that manages withdrawals and deposits to the account
- A button to toggle between a WithdrawFragment and a DepositFragment on the ManageActivity
- A WithdrawFragment that contains an input field for a number of dollars to add to the account. When the amount is submitted, the user is redirected to the MainActivity and the balance is updated to reflect the changes
- A DepositFragment that contains an input field for a number of dollars to add to the account. When the amount is taken, the user is redirected to the MainActivity and the balance is updated to reflect the changes