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CSC 221 – Programming Project – Phase II

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Tip Calculator

This is a report to show the overall progress of the android app that I worked with.

Old version

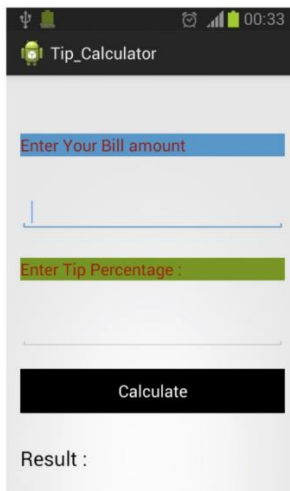


Figure 1

Figure-1 shows the app that I started working with. It had only two options. One could enter the total bill amount and then enter the tip percentage. Then it will calculate how much tip is needed to pay. This app is not really helpful in an everyday life. Because, one could only find out the tip amount using this app, then that amount is needed to be added (without the help of the app) with the bill amount to find out the total due amount.

Another major flaw of this app is, it does not have any reset button. So, if one needs to re-calculate then he/she has to literally close the app and re-open it again.

My version

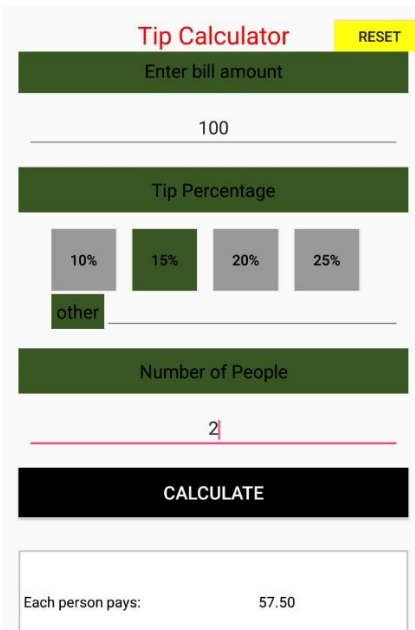


Figure 2

Figure-2 shows my version of the app that I was successful in making/updating by myself. Following are the new options that I was successful in adding to the old app-

- Tip percentage: 10%, 15%, 20%, 25% are the pre-loaded quick tip percentages. These are used most often, so these come as buttons. However, if the user wishes to enter any other amount he/she can do so by using the 'other' user input.
- Number of people: Normally we don't go to restaurant to eat alone. We always have partners. So, if we need to share the total amount among ourselves, then the number of people option is a really helpful one. After calculating the total due, it divides the result by number of people to get how much each person is needed to pay.
- Reset button: This is one of the major needed option from the previous version. If we make any mistakes or needed to

reset the whole calculation, we don't need to close the app and come back again. All we have to do is press the reset button.

Conclusion

My goal for this project was to upgrade the old version with three new added features. I think I am successful in doing so. My app not only matches the criteria for the project, it is also helpful in everyday life. I use it as my regular app when I visit a restaurant now. It feels good to use your own made app. I have also shared the ".apk" file with some of my friends, who also uses it on a regular basis. I plan to keep updating this app with added features in future and keep on using it as my regular restaurant app.