

## Task

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Make a cryptocurrency portfolio manager app, called ReactFolio, using React Native

## Inspiration

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Inspired by <https://play.google.com/store/apps/details?id=com.blockfolio.blockfolio&hl=en>

## Requirements

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1. The app has three main functionalities: display exchange rates, display your holdings in US\$, and password lock mechanism.
2. When opening the app for the first time, user asked to setup initial password, password confirmation is needed.
3. User will always be asked for password every time going back from another application, even when user just pressed Home
4. If password is wrong, display the warning and close activity
5. User can change password by going to "Settings" page, accessible via drawer menus
6. There is only one item in setting, which is to change password.
7. To change password, user needs to enter old password, new password, and new password confirmation
8. After setting up initial password, user is directed to "Rates" page.
9. Rates page displays top 25 coins using list or card, including their logo, name, price in \$, and last 24 hours % changes
10. Use <https://coinmarketcap.com/api/> or any other API that you prefer
11. Implement pull-to-refresh to refresh the rates from API
12. When user tapped one of the coins in the list, display a modal or pop-up with a textbox, HODL button, and CANCEL button
13. User can enter the amount of each coin he holds, up to 8 decimal places
14. Number of coins he holds are displayed in the "Holding" page
15. Initially, the Holding page will always be empty unless user has any coins saved
16. When holding is empty, don't show any list, instead show a message in the background that says: "You don't have any coin, please buy some!"
17. When user is holding, display card or list, showing coin logo, name, price in \$, last 24 hours % changes, amount of coin held, and amount of coin in \$
18. Clicking on one coin in the holding allows user to change holding amount for that coin
19. Textbox should be pre-filled according to the current holding amount when popping up
20. If a new amount is entered, amount of coin hold in \$ updated immediately
21. Display total of portfolio assets in \$ at the top of drawer, updated when rates are refreshed
22. Rates, Holding, and Settings can be accessed from drawer; there are total of 3 menus in drawer
23. Using existing open source project is not allowed, you have to code the app from scratch. Using libraries, however, is allowed
24. Use minimal design, focus on functionality

## **Submit**

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1. Post code to Github
2. Submit the link of repo AND pre-compiled APK via email, host the APK in Dropbox or Google Drive
3. App must be able to compile, please make step-by-step to build in README.md
4. 100% features completion is a plus