**CS624 Full-Stack Development Mobile App**

**PE06 – Cities with Countries and Currency using Tab and Stack-based Navigations**

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**Before You Start**

* You already created a private GitHub repository for all your programming exercises, “cs624-pe-your\_first\_name.”
* You allowed your instructor and the Teaching Assistant to access your GitHub repository for programming assignments.
* The GitHub Codespaces may bill your account according to your usage. Check the price at <https://docs.github.com/en/billing/managing-billing-for-github-codespaces/about-billing-for-github-codespaces>.
* Some steps are not explained in the assignment**.**If you are not sure what to do:
  + Consult the resources listed in your course.
  + If you need help solving the problem after a few tries (~15 minutes), ask a TA for help.

**Learning Outcomes**

Students will be able to:

* Implement additional screens by adding stack-based navigators to the “CountriesNav” tab.

**Problem**

In this week’s HOS, you have learned how to create Stack Navigator and add Screens to the “CitiesNav” tab. You are expected to enhance PE05 by adding stack-based navigators to the “CountriesNav” tab.

1. In the “CountriesNav” tab, you will show the countries list and their currencies used or not used in the country.
2. Like Cities and City, you will show a stack-based navigation between Countries and Country.
3. All styles are customized for Countries, Country, and Currency.

**Note**:

* You can refer [to Chapter 6 Navigation](https://learning.oreilly.com/library/view/react-native-in/9781617294051/c06.xhtml#h1-294051c06-0003) from the textbook “React Native in Action,” to understand tab and stack-based navigation.
* The textbook must be used for reference only. Some APIs are outdated and might have nonfunctional code.
* Use your HOP08 and PE05 to finish this exercise successfully.

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| Figure 1. Initial Screen with four tabs | Figure 2. The “AddCountry” Tab |
| A picture containing text, screenshot, font, number  Description automatically generated | A screenshot of a cell phone  Description automatically generated with medium confidence |
| Figure 3. The “Countries” Stack | Figure 4. The “Country” Stack with Currency info |
| A picture containing text, screenshot, software, number  Description automatically generated | A screenshot of a computer  Description automatically generated with medium confidence |

**Submission**

1. If you already created a GitHub repository for your programming exercises, “cs624-pe-your\_first\_name,” create a directory for programming exercise 6, “**PE06-CitiesWithCountriesCurrencyStackNav**.”
2. Finish your programming exercise under the PE06 directory.
3. Write a 150-word analysis report to explain how the program works in [README.md](https://www.markdownguide.org/basic-syntax/) regarding the [input-process-output model](https://press.rebus.community/programmingfundamentals/chapter/input-process-output-model/). The README.md has three level-1 headings – Input, Process, and Output.
4. Submit the link of your GitHub repository to your course shell through your assignment submission.