**CS624 Full-Stack Development Mobile App**

**PE03 – todos**

School of Technology & Computing (STC)

City University of Seattle (CityU)

**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:

* Finish working on building their first React native app “todos”.

**Note**: This PE consists of two parts. The first part should be completed after completing the HOS03. Second part of this PE should be completed only after finishing the HOS04.

**Problem: Part 1**

* Create a new folder in your PE directory with the name **PE03-todos** and copy the contents of the todos app created in HOS03 to PE03-todos. For copying the application “todos” from HOS03 to PE03, visit the [CS 624 Repository for Examples](https://github.com/samchung0117/cs624-examples). You can find the [CopyRepo](https://github.com/samchung0117/cs624-examples/blob/main/Module03/CopyRepo.md) guideline under Module03.
* Please note this part of the PE is continuation of HOS03. Make sure you have a working app from HOS03 before starting this exercise.
* For this part of the exercise, you will add the functionality to add the items to a list of to-dos. You will create a button and by click of that button should add the new to-do to the array of to-dos.
* The App UI should look something like this.

Graphical user interface, application, chat or text message

Description automatically generated

* Also, you need to log the items you are adding to the array in the terminal. For example, I have added few tasks, and this is the output of my terminal on GitHub codespace.  
  Graphical user interface, text, application, email

  Description automatically generated
* Save your App UI and console screenshots from your mobile under this PE folder.
* To complete these tasks, you may refer Listings 3.10 to 3.13 in the chapter 3 of the textbook, Dabit, N. (2019). [React Native in Action](https://learning.oreilly.com/library/view/react-native-in/9781617294051/). Manning Publications. (ISBN 9781617294051)

**Problem: Part 2**

* Please note this part of the PE is continuation of HOS04. Make sure you have a working app from HOS04 before starting this exercise.
* Copy the contents of the to-do app from HOS04 to your **PE03-todos** folder to continue working on the app. For copying the application “todos” from HOS03 to PE03, visit the [CS 624 Repository for Examples](https://github.com/samchung0117/cs624-examples). You can find the [CopyRepo](https://github.com/samchung0117/cs624-examples/blob/main/Module03/CopyRepo.md) guideline under Module03.
* For this part of the exercise, you will build a tab bar filter show either all todos, only completed todos or the incomplete todos.
* The UI of the App should look like the below image on you finish the implementation.   
  Graphical user interface, application, website

  Description automatically generated
* Save your App UI and console screenshots from your mobile under this PE folder.
* To complete these tasks, you may refer Listings 3.22 to 3.26 in the chapter 3 of the textbook, Dabit, N. (2019). [React Native in Action](https://learning.oreilly.com/library/view/react-native-in/9781617294051/). Manning Publications. (ISBN 9781617294051)

**Submission**

* If you already created a GitHub repository for your programming exercises, “cs624-pe-your\_first\_name,” create a directory for programming exercise 3, “PE03-todos.”
* Finish your programming exercise under the PE03 directory.
* Write a 150-word analysis report to explain how the program works in [README.md](https://www.markdownguide.org/basic-syntax/) regarding your understanding of the tasks in this assignment. The README.md has three level-1 headings – Input, Process, and Output.
* Submit the link of your GitHub repository to your course shell through your assignment submission.