**CS624 Full-Stack Development Mobile App**

**PE04 – Profile Cards**

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:

* Understand more styling techniques in addition to what they learned with Hands-On-Skills.

**Note**: This PE consists of two parts. The first part should be completed after completing HOS05. The second part of this PE should be completed only after finishing HOS06.

**Problem: Part 1**

* Create a new folder in your PE directory with the name **PE04/Part1** and copy the contents of the Styling app created in HOS05 to **PE04/Part1**. For copying the application “Styling” from HOS05 to PE04/Part1, 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 HOS05. Make sure you have a working app from HOS05 before starting this exercise.
* For this part of the exercise, you will study styling text components in chapter 4 of the textbook, Dabit, N. (2019). [React Native in Action](https://learning.oreilly.com/library/view/react-native-in/9781617294051/c04.xhtml#h1-294051c04-0003). Manning Publications. (ISBN 9781617294051) and implement what you have learned from Section 4.3 “Styling Text Components.”
* You will add more details to the Profile Card component and show the user’s name and occupation and a brief profile description.
* When you finish this part of the exercise, the finished Profile Card component should be like the one shown in the image below.

A picture containing text

Description automatically generated

* Save your App UI screenshot showing the finished Profile Card under this PE folder.

**Problem: Part 2**

* Please note this part of the PE is continuation of HOS06. Make sure you have a working app from HOS06 before starting this exercise.
* Copy the contents of the Styling app from HOS06 to your **PE04/Part2** folder to continue working on the app. For copying the application “Styling” from HOS06 to PE04/Part2, 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 gallery of Profile cards by reorganizing the structure of the Profile Card component.
* After studying the styling techniques from chapter 5 of the textbook, Dabit, N. (2019). [React Native in Action](https://learning.oreilly.com/library/view/react-native-in/9781617294051/c05.xhtml#h1-294051c05-0003). Manning Publications (ISBN 9781617294051), implement what you have learned from Section 5.3 “**Using flexbox to lay out components**” to show 6 profile cards in the App screen which expand and collapse into a thumbnail.
* The UI of the App should look like the below images once you finish the implementation.

**Before Expand:**  
Graphical user interface, application

Description automatically generated

**When Clicked on a Thumbnail:**

A picture containing outdoor, electronics, parking, several

Description automatically generated

* Save your App UI screenshots under this PE folder.

**Submission**

* If you already created a GitHub repository for your programming exercises, “cs624-pe-your\_first\_name,” create a directory for programming exercise 4, “PE04”
* Finish your programming exercise under the PE04 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. 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.

**Summary:**

* This assignment was definitely really hard for me. I learned how to add multiple profile cards but struggled with the flexbox layout. This has been really challenging, I think I spent hours on this assignment trying to get the hang of it. I think I finally got it and was able to create multiple profiles at a time. I did have to really think through how to add multiple profile cards after just programming one for a few weeks prior. I was only able to complete the first half of the assignment given it was such a challenge for me. I just could not get the flex feature to work even with trying the HOS examples.