CS628 Full-Stack Development Web App

**PE03 – ToDo List App**

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, “cs628-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>. Please pay attention to the storage and core hours of use free of charge for personal accounts.
* 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:

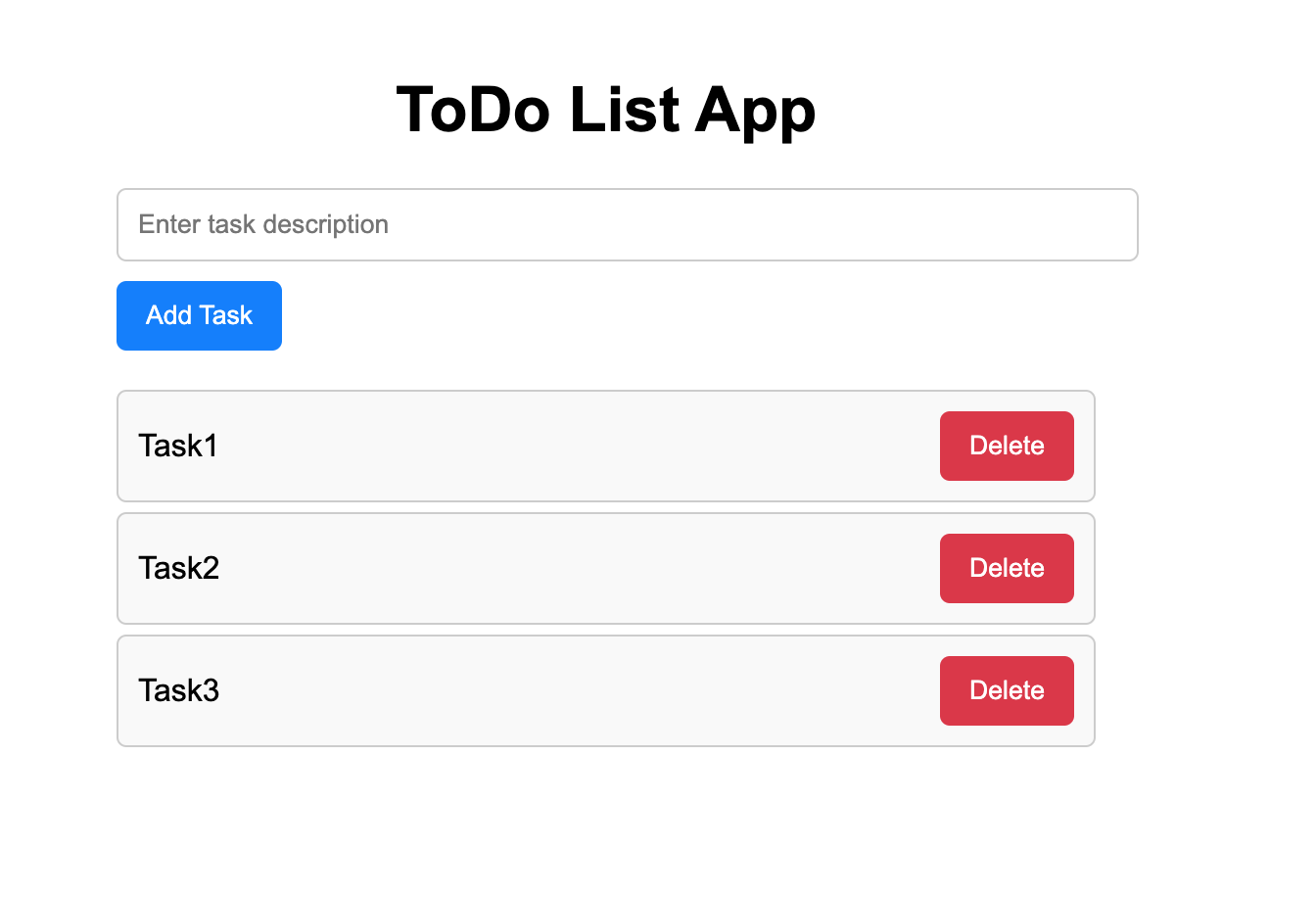
* + Create a basic ToDo list app using React, utilizing state management with the useState hook to handle dynamic data.
  + Implement event handlers to capture user interactions, and dynamically render components.

**Problem Statement:**

Your goal is to create a basic ToDo list App using React that allows users to add and remove todos.

**Requirements:**

* Display an input field where users can enter their ToDo description.
* When the "Add Task" button is clicked, the ToDo should be added to the ToDo list.
* Each ToDo in the list should have a "Delete" button that allows users to remove the ToDo.
* Implement state management using the useState hook to handle the list of ToDos.



**Note:**

* Create separate components for the ToDo list and ToDo tasks.
* Use the useState hook to manage the state of the ToDos.
* Implement event handlers to capture user interactions, such as clicking the "Add Task" or "Delete" buttons.
* Use the .map() function to dynamically render the list of ToDos.
* Apply CSS styling of your choice to enhance the user interface.

**Submission**

1. Create a GitHub repository for your programming exercises. The repository name will be “cs628-pe-*your\_first\_name*.”

Graphical user interface, application

Description automatically generated

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1. Click the Settings menu. Invite your instructor and TA to collaborators.

Graphical user interface, application

Description automatically generated

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1. Under the repository, create a directory for the programming exercise 1, “PE03-ToDoList.” For example, the screen below shows the directory created for programming exercise 01.

Graphical user interface, application

Description automatically generated

1. Finish your programming exercise under the PE03 directory.
2. Write a 150-word analysis report to explain how the program works in [README.md](https://www.markdownguide.org/basic-syntax/) in terms of 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.
3. Submit the link of your GitHub repository to your course shell through your assignment submission.

