WSOA4175A:

Interactive Media 4A | React Exercises Solutions

Note:

This is **one** method of completing the following exercises, not the only method. How you choose to answer will depend on how you interpret the question, but the logic should remain roughly the same.

Exercise 1:

Rendering a List of Names

- Create a React component called NameList.
- Use the following array of names inside the component:

```
const names = ["Alice", "Bob", "Charlie", "Diana"];
```

- Render the names as an unordered list (
), with each name inside a separate element.
- Ensure each <i> has a unique key using the index of the array.

```
export default NameList;
```

Exercise 2:

Simple Input Form

- Create a React component called SimpleForm.
- Add an input field and a submit button to the form.
- When the user types in the input field, update the state to reflect the current value of the input.
- When the form is submitted, display an alert with the entered value, and clear the input field.
- Use useState to manage the input value.

```
import React, { useState } from "react";

function SimpleForm() {
    const [inputValue, setInputValue] = useState("");

    const handleInputChange = (e) => {
        setInputValue(e.target.value);
    };

    const handleSubmit = (e) => {
        e.preventDefault();
        alert("You entered: $(inputValue)");
        setInputValue(""); // Clear the input field
    };

return (
    <div className="p-4">
        </inputValue("Text-lg font-bold mb-2">Simple Input Form</in>
    // className="text-lg font-bold mb-2">Simple Input Form</in>
```

Exercise 3:

Task List with Dynamic Entries

- Create a React component called TaskList.
- Add an input field and a button.
- Allow users to type in a task and click the button to add the task to a list.
- Render the list of tasks dynamically, and ensure each task has a unique key based on its index.
- Style the tasks with a border, padding, and margin for better visual separation.

```
import React, { useState } from "react";

function TaskList() {
  const [tasks, setTasks] = useState([]);
  const [task, setTask] = useState("");
```

```
const handleInputChange = (e) => {
setTask(e.target.value);
const addTask = () => {
if (task.trim() !== "") {
 setTasks([...tasks, task]);
 setTask(""); // Clear the input field after adding the task
 <div className="p-4">
  <h2 className="text-lg font-bold mb-2">Task List</h2>
  <div className="space-y-2">
    type="text"
    value={task}
    onChange={handleInputChange}
    placeholder="Enter a task"
    className="border border-gray-300 p-2 rounded w-full"
    onClick={addTask}
    className="bg-green-600 text-white px-4 py-2 rounded hover:bg-green-700"
    Add Task
  </div>
  ul className="mt-4 space-y-2">
   {tasks.map((task, index) => (
     key={index}
     className="border border-gray-300 p-2 rounded bg-gray-50"
     {task}
    </|i>
   ))}
  </div>
```

```
);
}
export default TaskList;
```