Objective

In this hands-on lab, you will learn how to use the useState Hook in React to create a dynamic list. Users will be able to type into an input box, press Enter and see the entered item added to the list.

Notes:

Estimated time to complete this lab: **30 minutes.**

Points to Ponder:

1. How does usestate help manage the list of items and the user input?
2. How can we ensure the list updates efficiently as new items are added?
3. What are the some considerations for handling empty input and other user interactions?

Steps:

Step 1: Create a functional component named List of things

Step 2: Initialize items and itemNames with useState

```
const [items, setItems] = useState([]);
const [itemName, setItemName] = useState("");
```
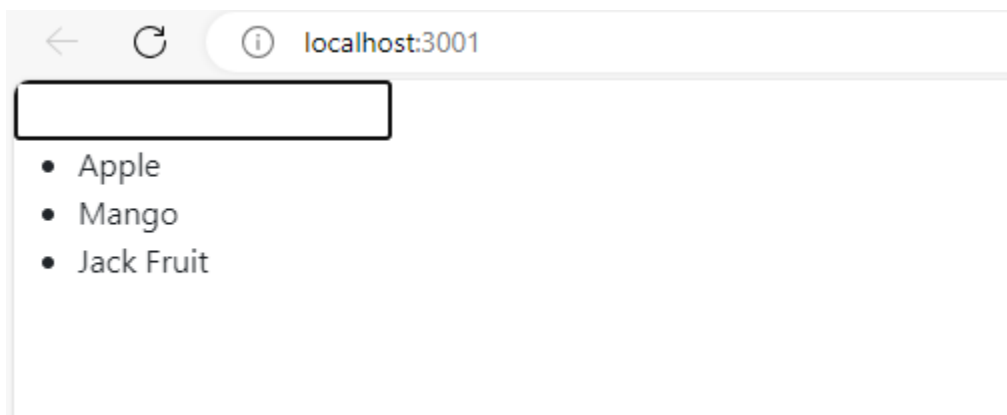
Step 3: Create an event using the ES6 spread operator ... to copy the existing items into the new array, and inserting the new item at the end.

```
const addItem = event => {
  event.preventDefault();
  setItems([
    ...items,
    {
      id: items.length,
      name: itemName
    }
  ]);
  setItemName("");
};
```
.

Step 4: In return function, display a textbox inside the form. Typing into the box and hitting Enter will add an item to the list.

```
<form onSubmit={addItem}>
  <label>
    <input
      name="item"
      type="text"
      value={itemName}
      onChange={e => setItemName(e.target.value)}
    />
  </label>
</form>
<ul>
  {items.map(item => (
    <li key={item.id}>{item.name}</li>
  ))}
</ul>
```

Expected OutCome:

localhost:3001

- Apple
- Mango
- Jack Fruit