**Exercise 24: Introduction to Redux**

Objectives and Outcomes

Redux is a popular state management library for JavaScript applications, including React. It provides a predictable state container that helps manage the state of your application in a centralized manner.

Exercises

A shopping cart typically involves managing a list of products, adding products to the cart, updating quantities, and calculating the total cost.

The student can write the code based on the specific tasks using Redux architecture

1. Create the component **Cart** to render the information of Products (id, name, price, catalogs).

const product = {

id: '123456',

name: 'Example Product',

price: 9.99,

description: 'This is an example product.',

catalogs: ['catalog1', 'catalog2'],

};

1. Add a "Add to Cart" button for each product in the ProductList component
2. Add a "Update to Cart" button for each product in the ProductList component
3. Add a "Delete to Cart" button for each product in the ProductList component

Conclusion

By integrating Redux with React, you can manage the state of your application in a centralized and predictable way. Redux helps in organizing complex application states, making it easier to reason about your application's data flow and enabling efficient state updates and data sharing between components.