STATE MANAGEMENT – REDUX

Lesson 6

1 week

Activity – Practice Set

Creating a shopping list app using redux.

Shopping List App with Redux Requirements:

- Objective:
    - The objective of this project is to create a shopping list application using Redux for state management. The application should allow users to add, edit, and delete items from their shopping list.
- User Interface:
    - Design a user-friendly interface for displaying the shopping list.
    - Include input fields for adding new items to the list and buttons for editing or deleting existing items.
- Redux Setup:
    - Set up Redux in the application to manage the shopping list state.
    - Define actions for adding, editing, and deleting items from the list.
    - Create reducers to handle these actions and update the state accordingly.
- Shopping List Features:
    - Display the list of shopping items along with checkboxes to mark items as purchased.
    - Include an input field and a button for adding new items to the list.
    - Allow users to edit the name or quantity of an item on the list.
    - Provide a way to delete items from the list.
- State Management:
    - Use Redux to manage the application state, including the list of shopping items.
    - Ensure that the application updates the Redux store appropriately when items are added, edited, or deleted.
- Persistence:

- Implement local storage or a database to persist the shopping list data between app sessions.
- Ensure that the application loads the saved shopping list data when it is reopened.
  - User Feedback:
    - Provide visual feedback to users when items are added, edited, or deleted from the list.
    - Display error messages if there are any issues with adding or editing items.
  - Accessibility(optional):
    - Ensure that the application is accessible to users with disabilities by following accessibility best practices.
    - Use appropriate labels and aria attributes to make the application usable with screen readers.
  - Testing:
    - Test the application thoroughly to ensure that all features work as expected.
    - Conduct integration tests for Redux actions and reducers to verify their functionality.
  - Documentation:
    - Provide documentation for developers on how to set up and run the application.
    - Include a user guide for using the shopping list app.
  - Deployment:
    - Deploy the application to a hosting service or app store for users to download and use.
    - Ensure that the deployment process is well-documented and includes any necessary configuration steps.