Redux

* Redux is a predictable state management library for JavaScript applications, commonly used with React.
* It helps manage and centralize the state of an application, making it easier to manage and debug, especially as the application grows in complexity.
* Redux follows a unidirectional data flow pattern, meaning the state of your application is stored in a single object tree (the "store"), and the only way to change the state is by dispatching actions.

**Core Concepts of Redux**

1. **Store**: The single source of truth that holds the entire state of your application. The state is read-only, and you can only change it by dispatching actions.
2. **Actions**: Plain JavaScript objects that describe an event or something that happened in the application. Each action has a type property that indicates what kind of action is being performed.
3. **Reducers**: Pure functions that take the current state and an action as arguments and return a new state. Reducers specify how the application's state changes in response to an action.
4. **Dispatch**: The method used to send actions to the store. When you dispatch an action, the store's reducer processes the action and updates the state accordingly.
5. **Selectors**: Functions that extract specific parts of the state from the store.