



Școala  
informală  
de IT

# React Redux



# What is Redux?

- A library for state management
- State management - a way sharing of data across components.
- Used in complex applications to make the state management easier
- The state of the app is added to a store
- Each component can access each state from the store

# State

- **Local State**

- State that belongs to a single component (e.g. user input)

- **Cross-component State**

- State that affects multiple components ( e.g. a button that opens a dialog – different component → props chain/prop drilling)

- **App State**

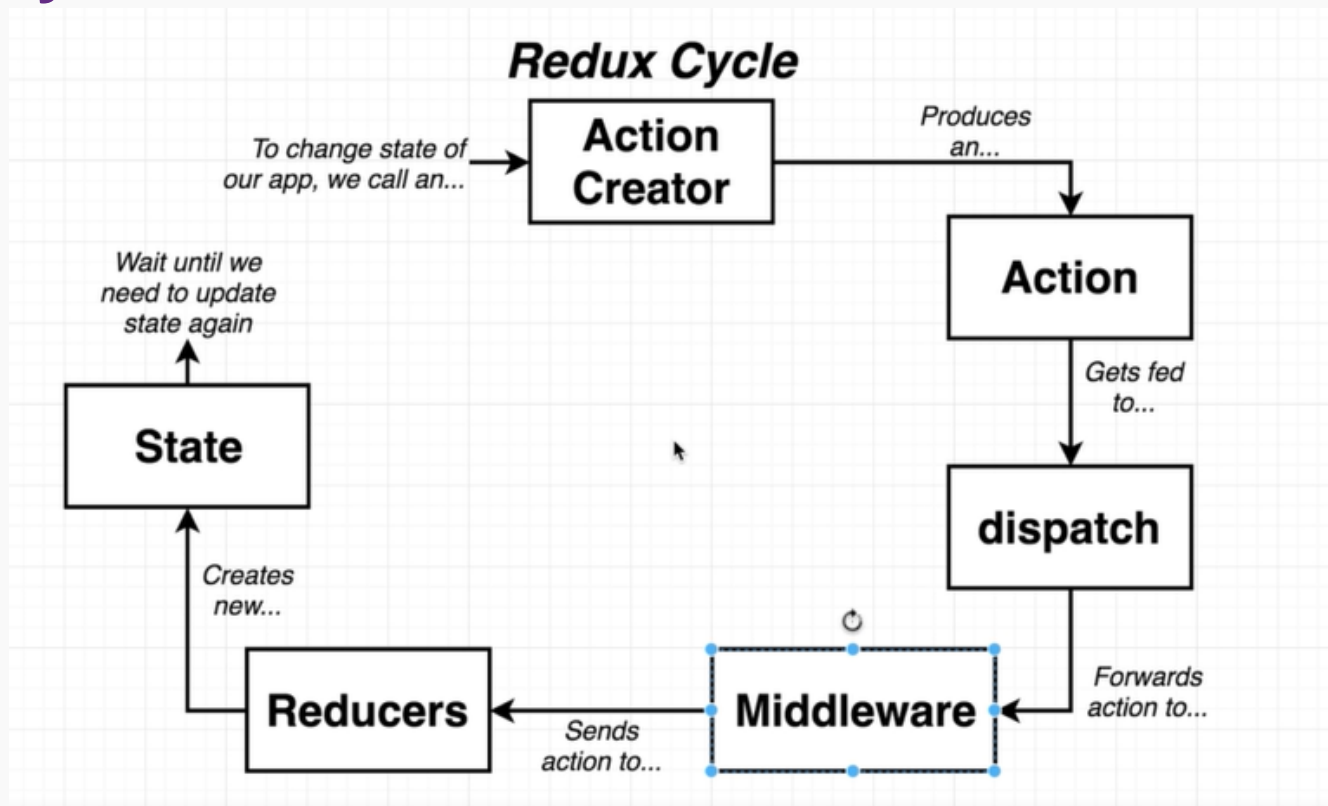
- State that affects the entire app (e.g. user authentication → navigation is affected and some component will show more or less data depending on user authorization)

# How Redux works

- One central data(state) **store** for the entire application
- The data from the store could be used by any component
- The component subscribe to the store, and the store notifies component when the data is changed
- The states for store are NEVER directly manipulated by the components
- Reducer functions → the way to change the states from the store
- Components dispatch actions (simple js objects that describes the action that reducers should perform)
- Actions are forwarded to reducers, the reducers change the state from the store



# Redux cycle



# React | Redux | React Redux

- Redux is not designed to work only with React
- React-Redux package connect the React app with Redux
- let's create a new react app: “companies”
  - Install redux and react redux packages

