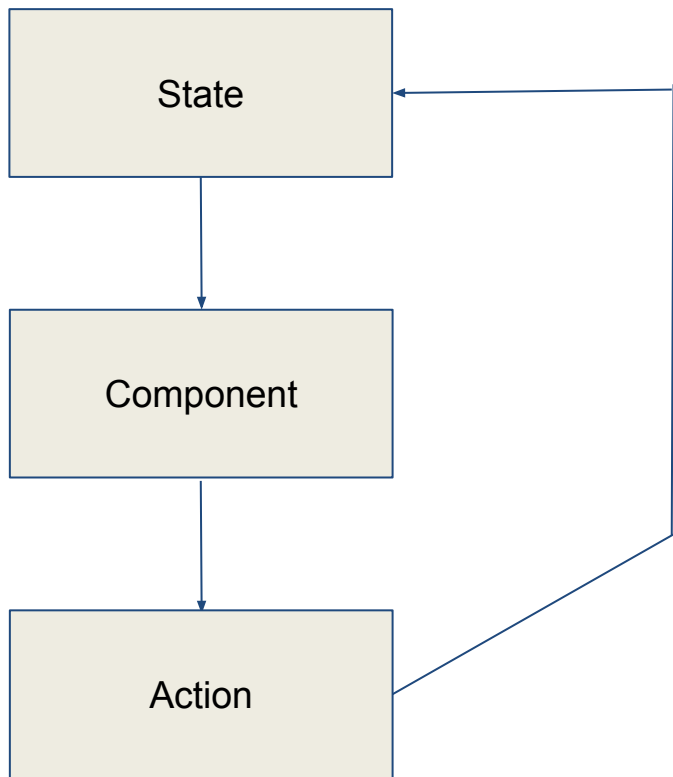# Redux Architecture

Problem

- States in React Component are private to the component
- Sometime we need to transfer the state along multiple components across our app
- React Components are the UI but we need some sort of architecture to organize our application
- MVC is easy to maintain on small scale applications, but it's considered as a mess for big applications
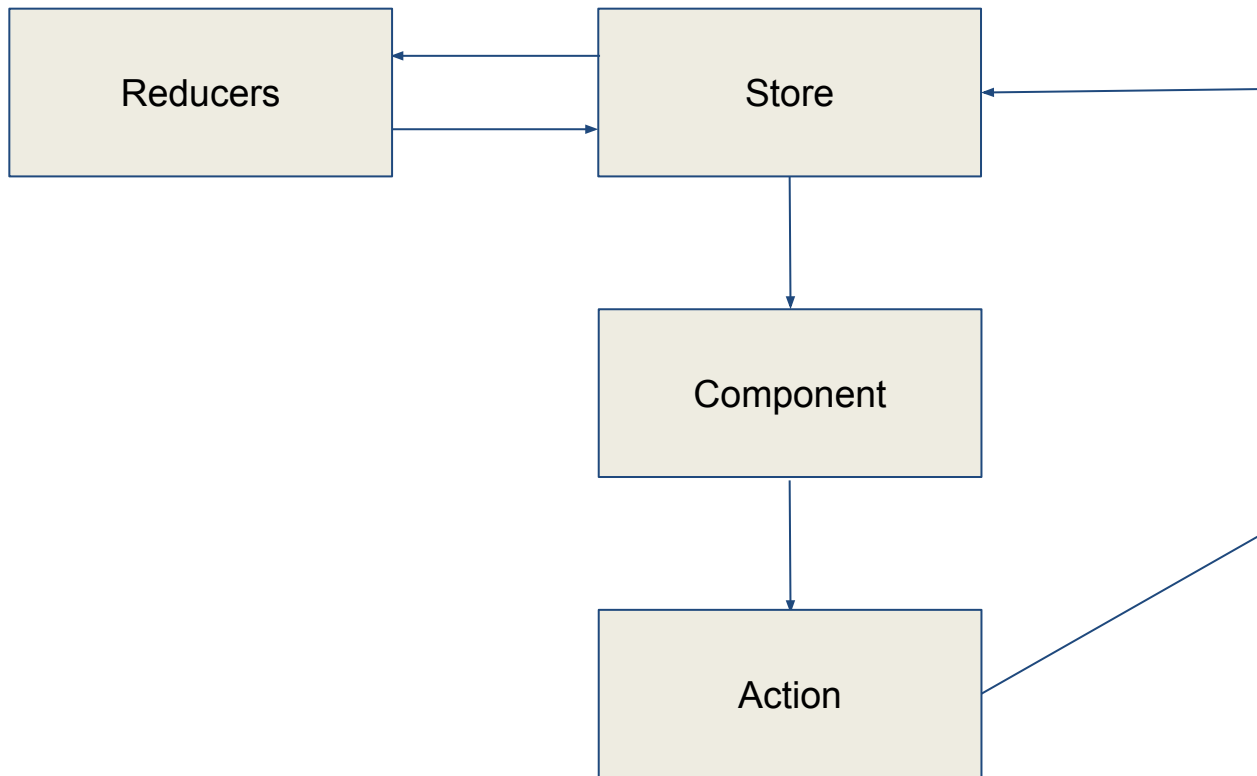
Unidirectional Data Flow

What is Redux

- Application state library
- Single state for the entire application (state is held in the Redux store)
- React Components can connect to that state and rerender when that state change
- The state is immutable
- Only actions can change the state
- Reducers decide how the state will change

Redux Architecture

Why Redux?

- State in React components are private
- Great way to pass information across the entire app
- performance… components are re rendered only if the part of the state where they are connected to is changed
- single store holds the entire state of the app
- state is immutable
- great community