REACTNATIVE

Presented by:

Farzad Akbarinejad Ehsan Beheshtian

about instructors:

- Android developer
- React native developer
- Web frontend developer with ReactJS
- Backend developer with Django
- Python, Java, JavaScript

- React native developer
- Software Designer and Software Test Designer
- Web frontend developer with ReactJS
- Backend developer with Django and NodeJS
- Python, Java, JavaScript, C++

About Course

- Smart phone, a necessary tool
- Companies want to have mobile Application besides their services
- How to develop a mobile App
- Old fashion
- Web Applications
- Multiplatform frameworks

Modules:

- ReactJS
- ReactNative
- Redux
- Advanced ReactNative
- Graphql_Apollo



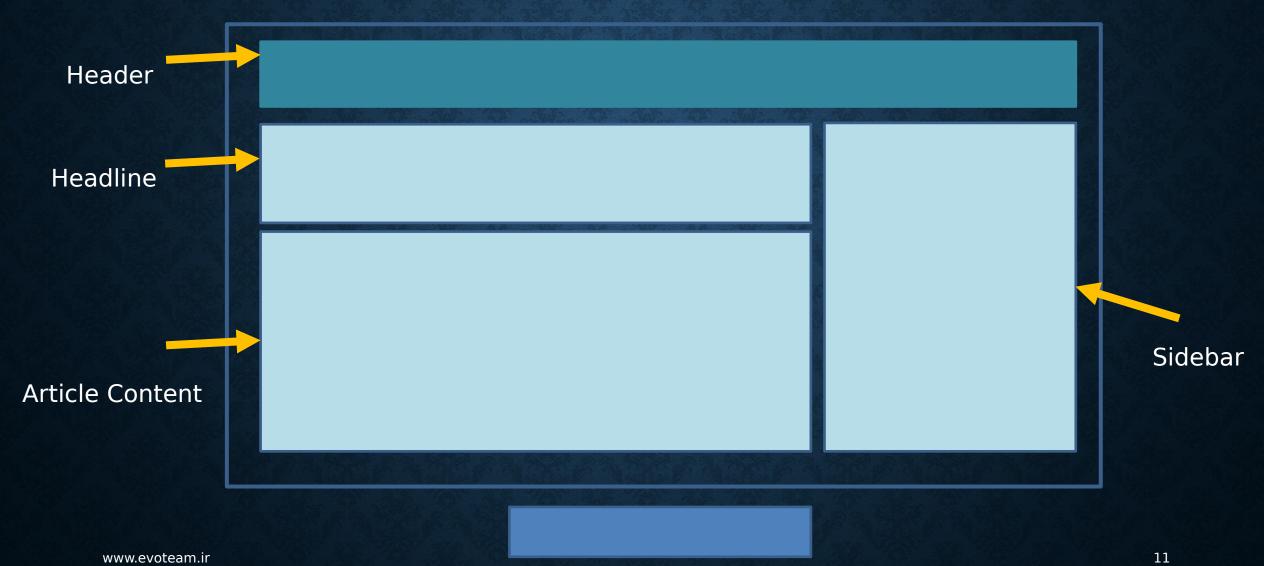
REACTIS

- titles
 - what is React
 - Building Components
 - Stateful
 - Stateless
 - Comparing Stateless and Stateful Components
 - Lifecycle Methods in ReactJS
 - rendering
 - updating

WHAT?

a JavaScript library for building User Interfaces

components?



WHY?

UI State becomes difficult to handle with Vanilla JavaScript

Focus on business logic, not on preventing your app from exploding

Huge Ecosystem, Active Community, High Performance

Framework creators probably write better code

plus

COMPONENTS

• Let's get our hands dirty...

Stateful vs. Stateless Components

Stateful (Containers)

Stateless

class XY extends Component

const XY = (props) => { ... }

Access to State



Access to State



Lifecycle hooks

Lifecycle hooks

Access State and Props via 'this'

Access Props via 'props'

this.state.XY & this.props. XY

Props.XY

Use only if you need to manage state or access to Lifecycle hooks

Use in all other cases

Component Lifecycle

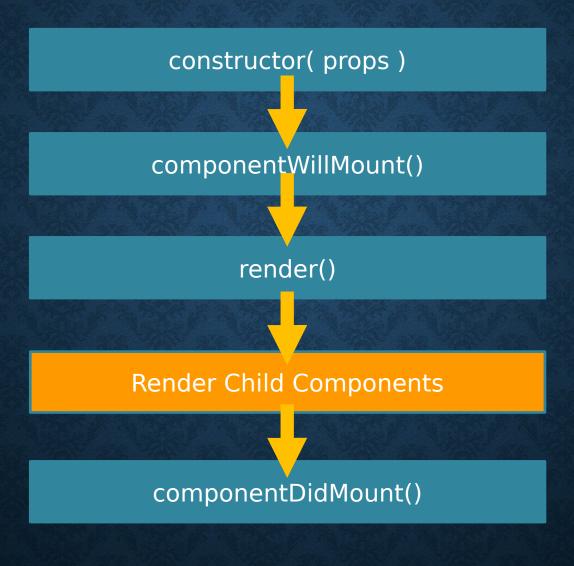
Only available in Stateful Components!

constructor()	componentWillMount()
componentWillRecieveProps()	shouldComponentUpdate()
componentWillUpdate()	componentDidUpdate()
componentDidCatch()	componentDidMount()
componentWillUnmount()	render()

Component Lifecycle - creation

Default ES6 class feature

Exists for historical reasons



Call super(props)
DO: Set up State
DON'T: Cause SideEffects

DO: update State, last - minute Optimization **DON'T:** Cause Side-Effects

Prepare & Structure your JSX Code

DO: Cause Side-Effects
DON'T: Update State
(triggers re-render)

Component Lifecycle - Update (triggered by parent)

componentWillRecieveProps(nextProps)

DO: sync State to Props
DON'T: Cause SideEffects

May cancel updating process!

shouldComponentUpdate(nextProps, nextState)

continue or not

DON'T: Cause Side-Effects

componentWillUpdate(nextProps, nextCtate)

DO: sync State to Props

DON'T: Cause Side-

Effects

render()

Prepare & Structure your JSX Code

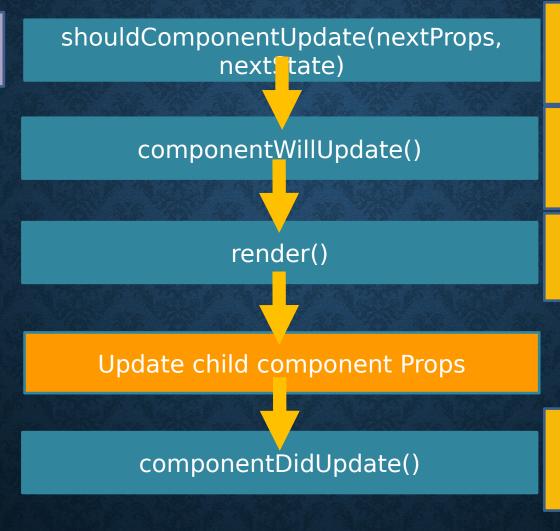
Update child component Props

componentDidUpdate()

DO: Cause Side-Effects
DON'T: Update State
(triggers re-render)

Component Lifecycle - Update (triggered by internal change)

May cancel updating process!



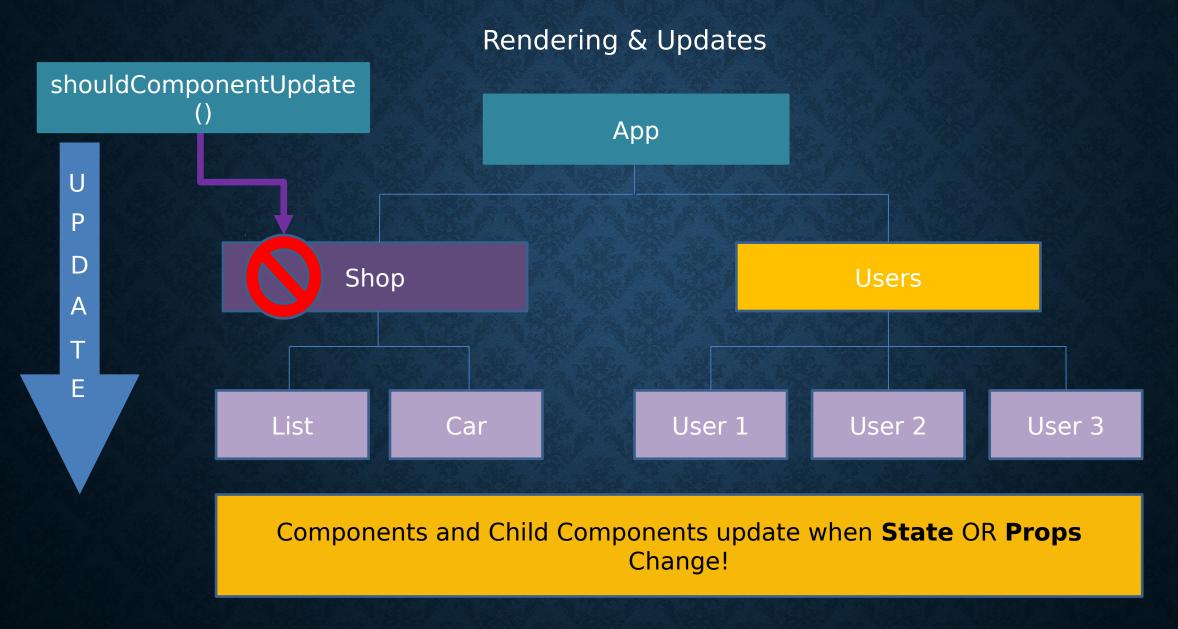
continue or not

DON'T: Cause Side-Effects

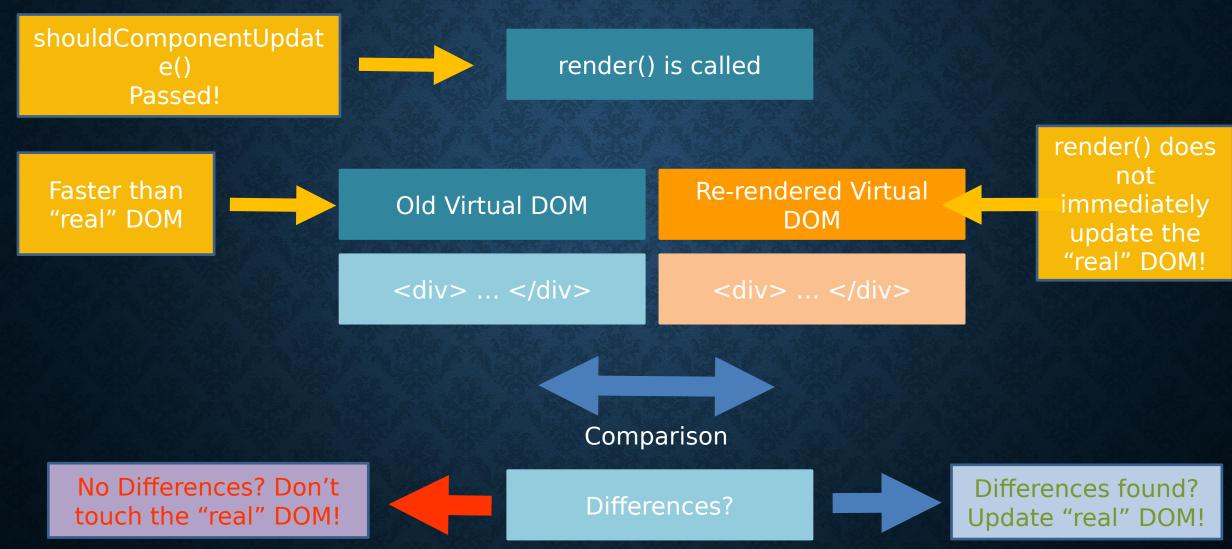
DO: sync State to Props **DON'T:** Cause Side-Effects

Prepare & Structure your JSX Code

DO: Cause Side-Effects **DON'T:** Update State (triggers re-render)



How React Updates The DOM



End Of Module 1

React

Questions?

REACT_NATIVE

titles

- Installing on Windows
- Creating a Project
- Getting to know the project folders
- React VS. ReactNative
- Building Components Using JSX
- Building Reusable Components
- Working With Lists
- Linking between Applications
- Debugging
- New Error Handling Feature (React 16)

INSTALLING

- Java Sdk
- NodeJS
- Python
- Android Studio
- react-native-cli
- Running the project on android studio
- Creating android simulator
- Adding environment variables
 - JAVA_HOME
 - ANDROID_HOME: platform-tools

react-native run-android

React VS. ReactNative

React

- Knows how a component should behave
- Knows how to take bunch of components and make them work together

ReactNative

- Knows how to take the output from a component and place it on the screen
- Provides default core components (image, text)

25

Module 1 Overview



End Of Module 2

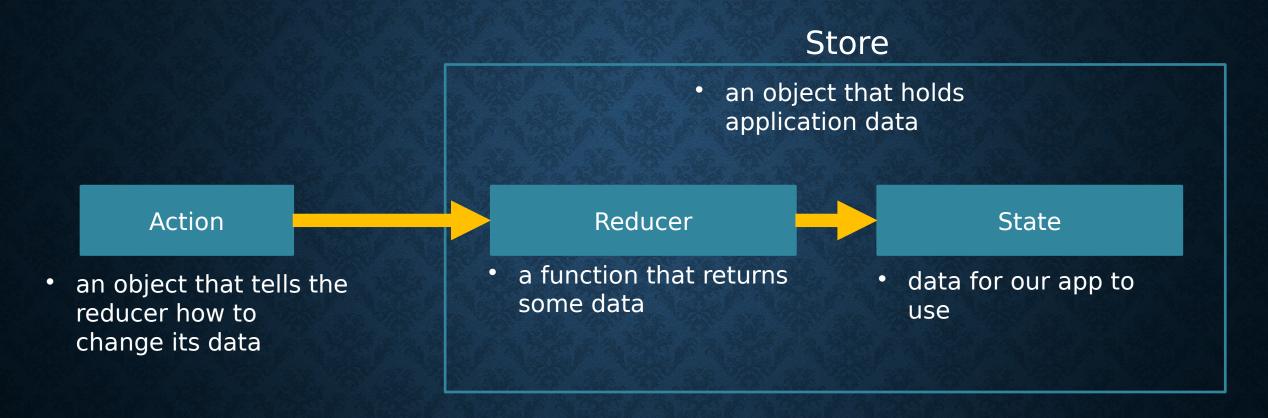
React Native

Questions?

REDUX

- titles
 - Getting to know Redux
 - What are
 - Actions
 - Reducers
 - State
 - How Redux works
 - When to / not to use redux
 - Pulling logics out of the components

Example



Store

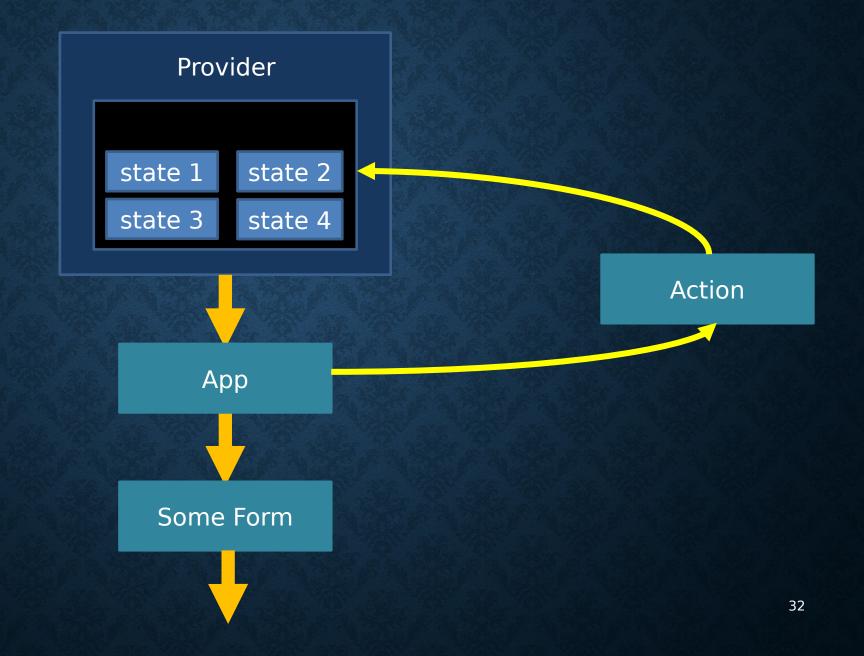
turn 'asdf' into an array of characters

Action

 if the action's type is 'split', I will take a string of characters and turn it into an array.
 Reducer

• ['a', 's', 'd', 'f']

State



Types of State

Example User Redux? Type Mostly handled within Local UI State Show / Hide Modal components Stored on Server, relevant All Users, All Posts, ... **Persistent State** slice managed by Redux Is Authenticated? Filters Managed via Redux Client State set by User, ...

Module 2 Overview

tech_statck

React

Here will be some information about the chosen library, and it will open so nicely

Redux

React Redux

Axios

ESLint

Babel

Currently Selected Library

List Of Libraries End Of Module 3

Redux

Questions?