

# ReactNative Workshop

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**HEIDELBERGCEMENT**

- 
1. **What is ReactNative**
  2. **What is React**
  3. **React component**
  4. **Virtual DOM**
  5. **React vs ReactNative**
  6. **JSX**
  7. **Style**
  8. **Dynamic components**

**DEMO****DEMO****DEMO****DEMO**

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8. Bikes APP – Technical Feasibility
  9. Bikes APP – UI/UX brainstorming

INTERACTIVE  
SESSION

**A framework for building native apps using React**

A large, semi-transparent gray graphic of a mechanical gear or cogwheel, positioned on the right side of the slide.

React is a **JavaScript** library created by **Facebook**  
React is a **User Interface (UI)** library  
React is a tool for building **UI components**

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React is a **JavaScript** library created by **Facebook**  
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React is a tool for building **UI components**

**React is Declarative**  
**React is Component-Based**



# Everything is a component

## LIVE JSX EDITOR

 JSX?

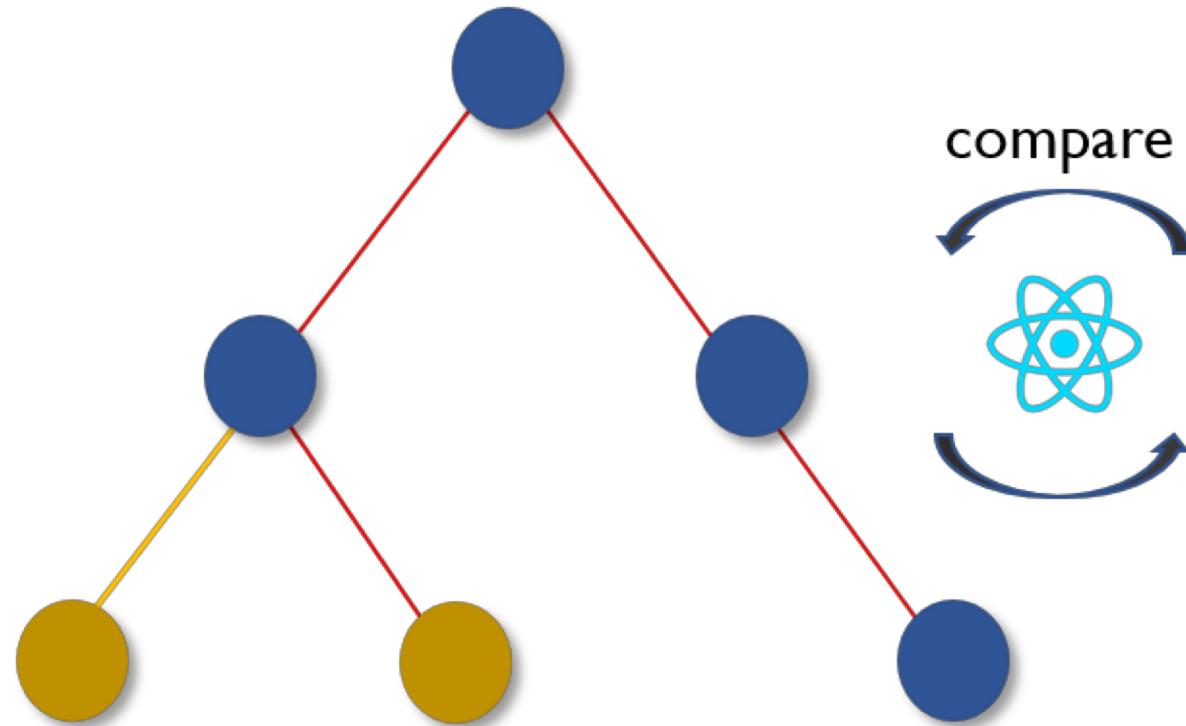
```
class HelloMessage extends React.Component {  
  render() {  
    return (  
      <div>  
        Hello {this.props.name}  
      </div>  
    );  
  }  
}  
  
ReactDOM.render(  
  <HelloMessage name="OneIT" />,  
  document.getElementById('hello-example')  
);
```

## RESULT

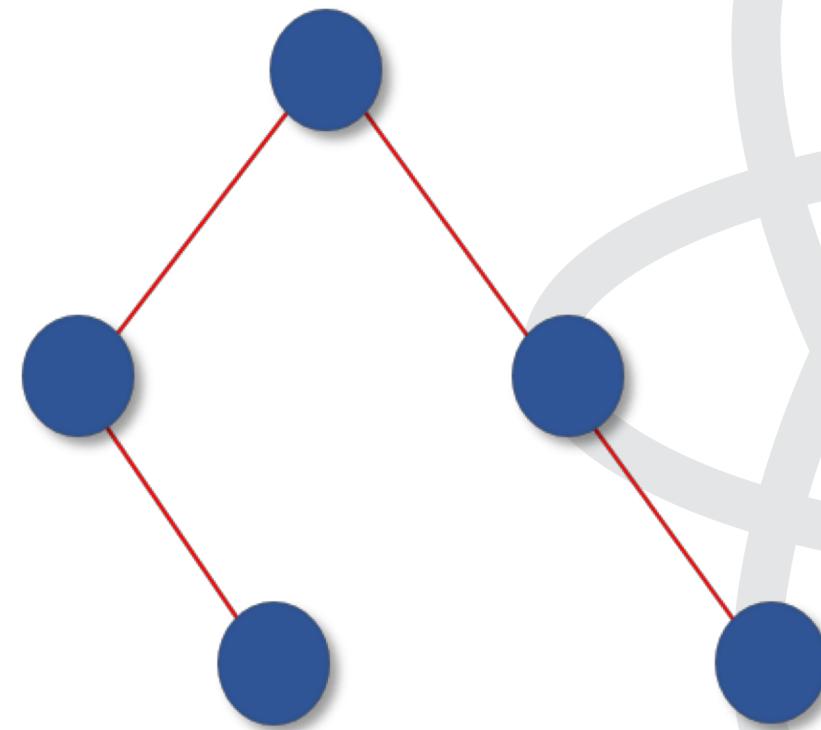
Hello OneIT

<https://reactjs.org/>

Virtual DOM

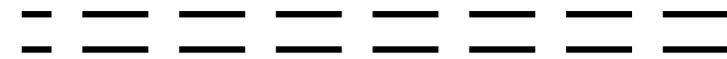


Real DOM

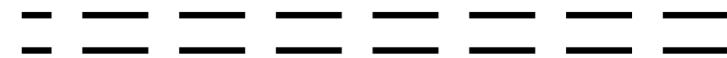


## Native Modules

Andorid - Java  
IOS - Obj C /Swift



**RN Bridge**  
(Java/C++)



**JS**

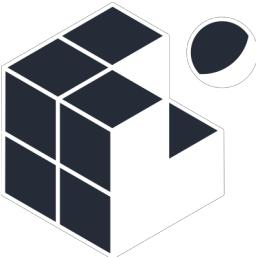
Virtual Machine  
(JavaScriptCore)

This funny tag syntax is neither a string nor HTML.

Let's try it out!

<https://babeljs.io/en/repl>





Expo Snack <https://snack.expo.io/>

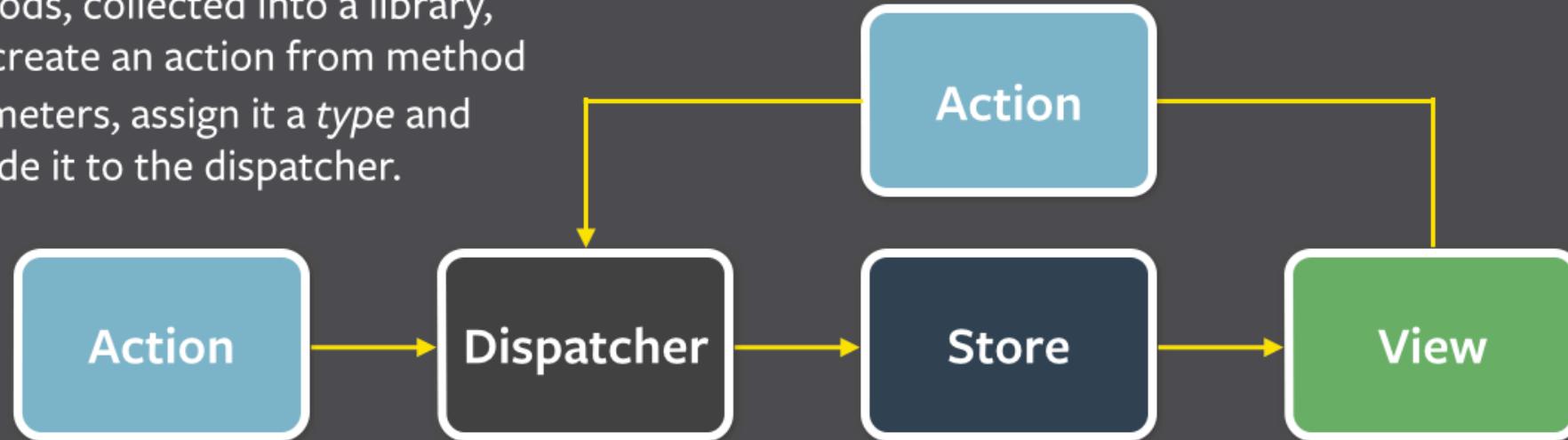


Expo Client <https://snack.expo.io/>





Action creators are helper methods, collected into a library, that create an action from method parameters, assign it a *type* and provide it to the dispatcher.

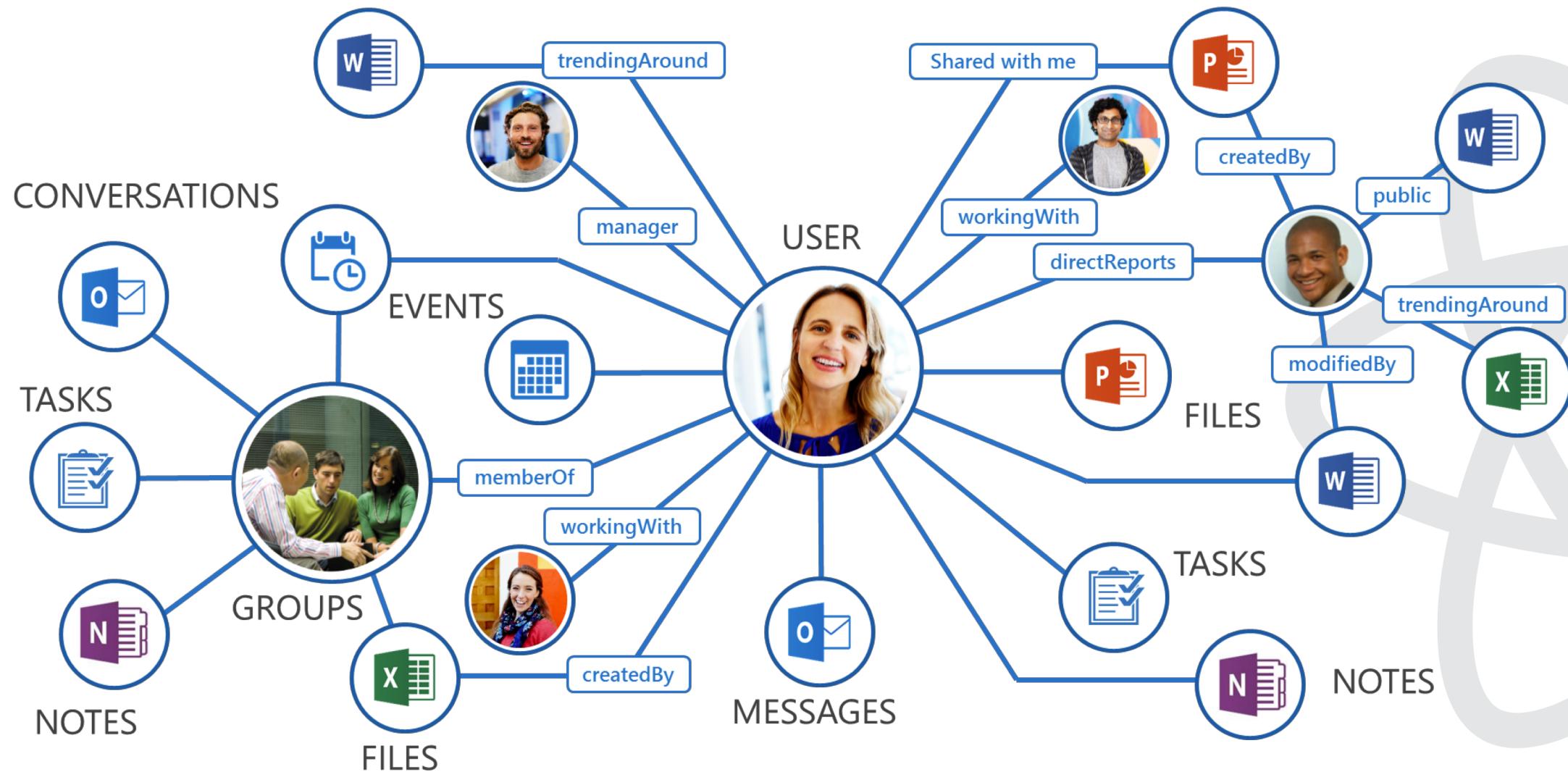


Every action is sent to all stores via the *callbacks* the stores register with the dispatcher.

After stores update themselves in response to an action, they emit a *change* event.

Special views called *controller-views*, listen for *change* events, retrieve the new data from the stores and provide the new data to the entire tree of their child views.

# Bikes APP – technical feasibility



## Security Providers



Azure ATP



Azure AD Identity  
Protection



Windows  
Defender ATP



Azure Security  
Center



Office 365 ATP



Cloud Application  
Security



Azure Information  
Protection



Intune



Ecosystem  
Partners

## Data and Actions

### Microsoft Graph Security API

### Other Microsoft Graph Services

Office 365 | Intune | Active Directory | More...

Alerts

Security Profiles  
Host | User | File | App | IP

Actions

Configurations

Users

Groups

Mail

Files

Calendar

Insights and relationships

## Authentication & Authorization

OAuth 2.0 and OpenID Connect 1.0

## Supported SDKs and Sample Code



ASP.NET MVC



Xamarin



UWP



JavaScript



Angular



PHP



Android



iOS



Rails



Python

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Azure Security  
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Office 365 ATP



Cloud Application  
Security



Azure Information  
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Intune



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### Microsoft Graph Security API

### Other Microsoft Graph Services

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ASP.NET MVC



Xamarin



UWP

Bikes  
APP



Angular



PHP



Android



iOS



Rails

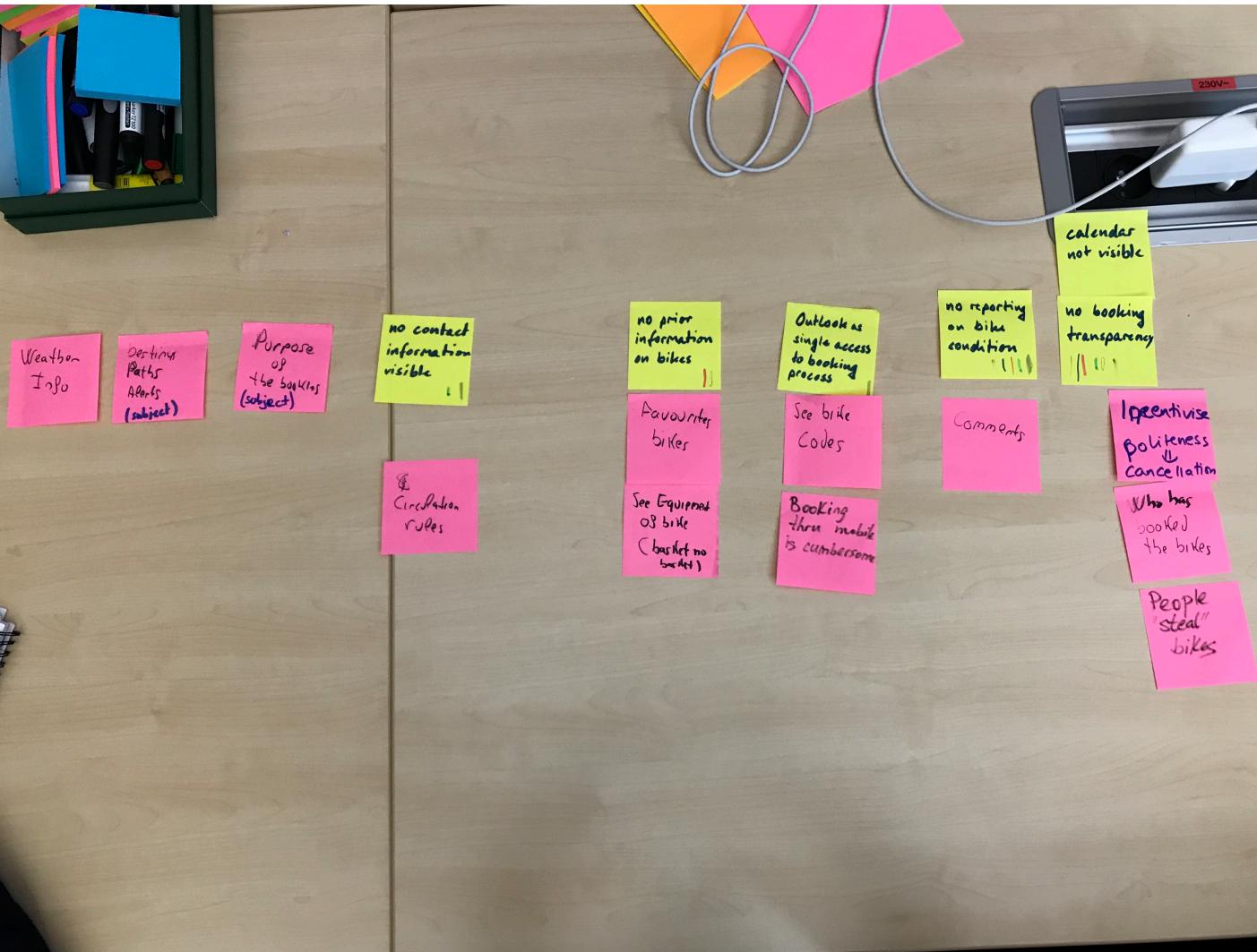


Python

## Demos



# Bikes APP – UI/UX brainstorming



# Bikes APP – UI/UX brainstorming

