

React Native

Learn once, write anywhere

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<https://github.com/ovr>



<http://www.devconf.ru>

PHP
GO

SPA

Mobile

interpals

The screenshot shows the InterPals website interface. At the top, there is a navigation bar with the InterPals logo, a search bar, and links for forums, online users (9502), and language exchange. Below the navigation bar, there is a main content area with a welcome message and a 'Meet people now' section. The 'Meet people now' section includes a 'Sign in with Facebook' button and a login form with fields for Username, Email (ovr), Password, Birthdate (Day, Month, Year), Gender (Male), and Country (Afghanistan). Below the login form, there is a 'Pencils online now' section with 9502 pencils from 151 countries, and a 'Language exchange' section with various language options. At the bottom, there is a footer with links for About, Help, Language Practice, Make New Friends, and Your Profile.

Android

iOS

UI

XML

XIB

Language

Java
Kotlin

ObjC
Swift

Build

Gradle

XCode

PhoneGap

Xamarin

NativeScript

WebView

C# ->
ObjC / Java

?

JS/CSS

XML/JS/
CSS

React-Native

ES6+

JSX

FlexBox -> Yoga

Babel

Polyfills

```
'syntax-async-functions',
'syntax-class-properties',
'syntax-trailing-function-commas',
'transform-class-properties',
'transform-es2015-function-name',
'transform-es2015-arrow-functions',
'transform-es2015-block-scoping',
'transform-es2015-classes',
'transform-es2015-computed-properties',
'check-es2015-constants',
'transform-es2015-destructuring',
['transform-es2015-modules-commonjs', { strict: false, allowTopLevelThis: true }],
'transform-es2015-parameters',
'transform-es2015-shorthand-properties',
'transform-es2015-spread',
'transform-es2015-template-literals',
'transform-es2015-literals',
'transform-flow-strip-types',
'transform-object-assign',
'transform-object-rest-spread',
'transform-react-display-name',
'transform-react-jsx',
'transform-regenerator',
['transform-es2015-for-of', { loose: true }],
require('../transforms/transform-symbol-member'),
```

ES 2015

Common JS

Async / Await

JSX

ES5

- Reserved Words: `promise.catch(function() { });`

ES6

- Arrow functions: `<C onPress={() => this.setState({pressed: true})}`
- Block scoping: `let greeting = 'hi';`
- Call spread: `Math.max(...array);`
- Classes: `class C extends React.Component { render() { return <View />; } }`
- Constants: `const answer = 42;`
- Destructuring: `var {isActive, style} = this.props;`
- for...of: `for (var num of [1, 2, 3]) {}`
- Modules: `import React, { Component } from 'react';`
- Computed Properties: `var key = 'abc'; var obj = {[key]: 10};`
- Object Concise Method: `var obj = { method() { return 10; } };`
- Object Short Notation: `var name = 'vjeux'; var obj = { name };`
- Rest Params: `function(type, ...args) { }`
- Template Literals: `var who = 'world'; var str = `Hello ${who}`;`

ES7

- Object Spread: `var extended = { ...obj, a: 10 };`
- Function Trailing Comma: `function f(a, b, c,) { }`
- Async Functions: `async function doStuffAsync() { const foo = await doOtherStuffAsync(); };`

Android

iOS

JavaScriptCore

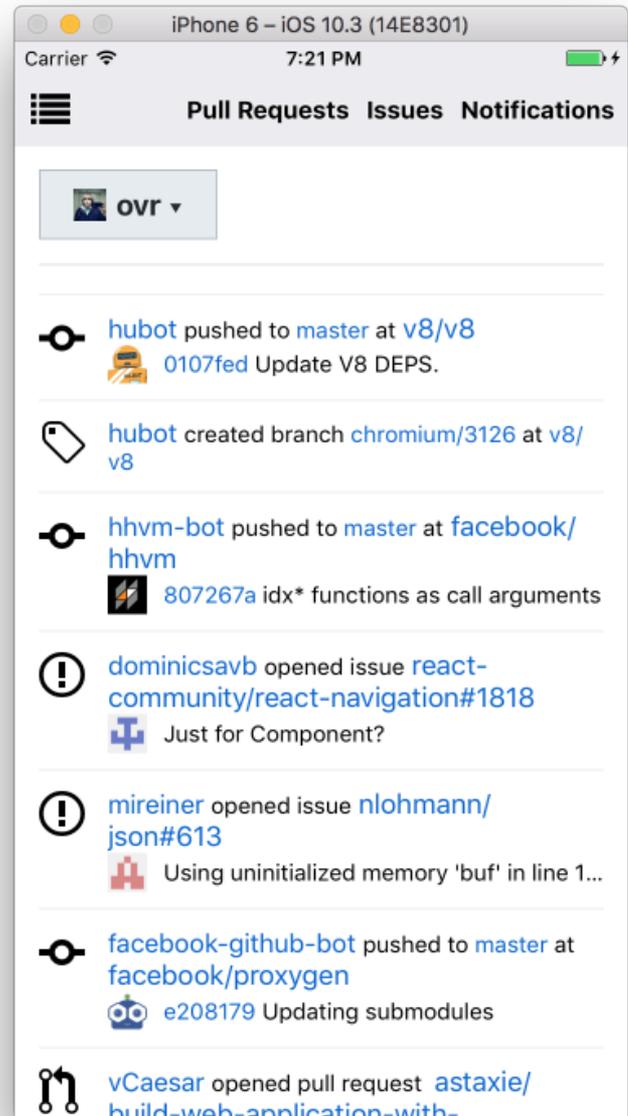
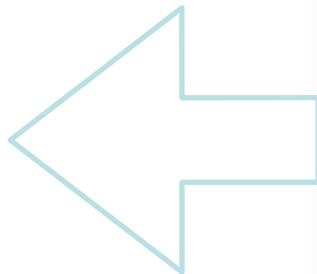
Debug

WebSocket

Chrome / V8

Packer HTTP:
8081

Babel



```
public class MainApplication extends Application implements ReactApplication {  
    private final ReactNativeHost mReactNativeHost = new ReactNativeHost(this) {  
        @Override  
        public boolean getUseDeveloperSupport() { return BuildConfig.DEBUG; }  
  
        @Override  
        protected List<ReactPackage> getPackages() {  
            return Arrays.<~>asList(  
                new MainReactPackage(),  
                new RNSentryPackage(MainApplication.this),  
                new VectorIconsPackage(),  
                new RNDeviceInfo()  
            );  
        }  
    };  
  
    @Override  
    public ReactNativeHost getReactNativeHost() { return mReactNativeHost; }  
  
    @Override  
    public void onCreate() {  
        super.onCreate();  
        SoLoader.init(this, /* native exopackage */ false);  
    }  
}
```

MainActivity

```
MainActivity
```

```
package com.ghubber;
```

```
import com.facebook.react.ReactActivity;
```



```
public class MainActivity extends ReactActivity {
```

```
    /**
```

```
     * Returns the name of the main component registered from JavaScript.
```

```
     * This is used to schedule rendering of the component.
```

```
     */
```

```
    @Override
```

```
    protected String getMainComponentName() { return "ghubber"; }
```

```
}
```

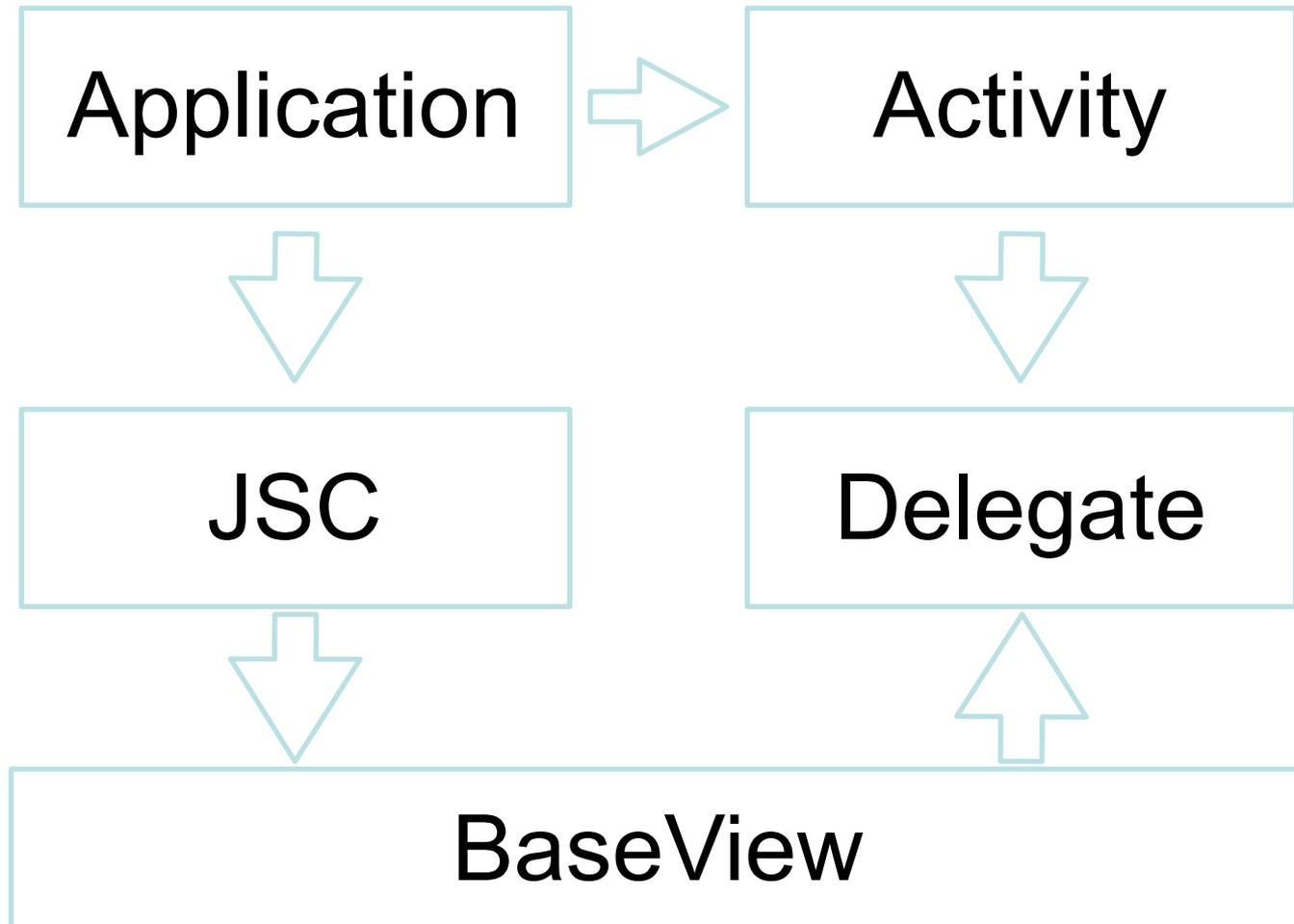
```
/**...*/  
public abstract class ReactActivity extends Activity  
    implements DefaultHardwareBackBtnHandler, PermissionAwareActivity {  
  
    private final ReactActivityDelegate mDelegate;  
  
    protected ReactActivity() { mDelegate = createReactActivityDelegate(); }  
  
    /**...*/  
    protected @Nullable String getMainComponentName() { return null; }  
  
    /**...*/  
    protected ReactActivityDelegate createReactActivityDelegate() {  
        return new ReactActivityDelegate(this, getMainComponentName());  
    }  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        mDelegate.onCreate(savedInstanceState);  
    }  
  
    @Override  
    protected void onPause() {...}  
  
    @Override  
    protected void onResume() {...}  
  
    @Override
```

ReactActivityDelegate

```
protected void onCreate(Bundle savedInstanceState) {  
    loadApp(mMainComponentName);  
}
```

mActivity это Activity пришла в Delegate

```
protected void loadApp(String appKey) {  
    mReactRootView = createRootView();  
    mReactRootView.startReactApplication(  
        getReactNativeHost().getReactInstanceManager(),  
        appKey,  
        getLaunchOptions());  
    getPlainActivity().setContentView(mReactRootView);  
}
```



MAIN / UI



JSC (JS)



Shadow



Native
Modules

X



X



X



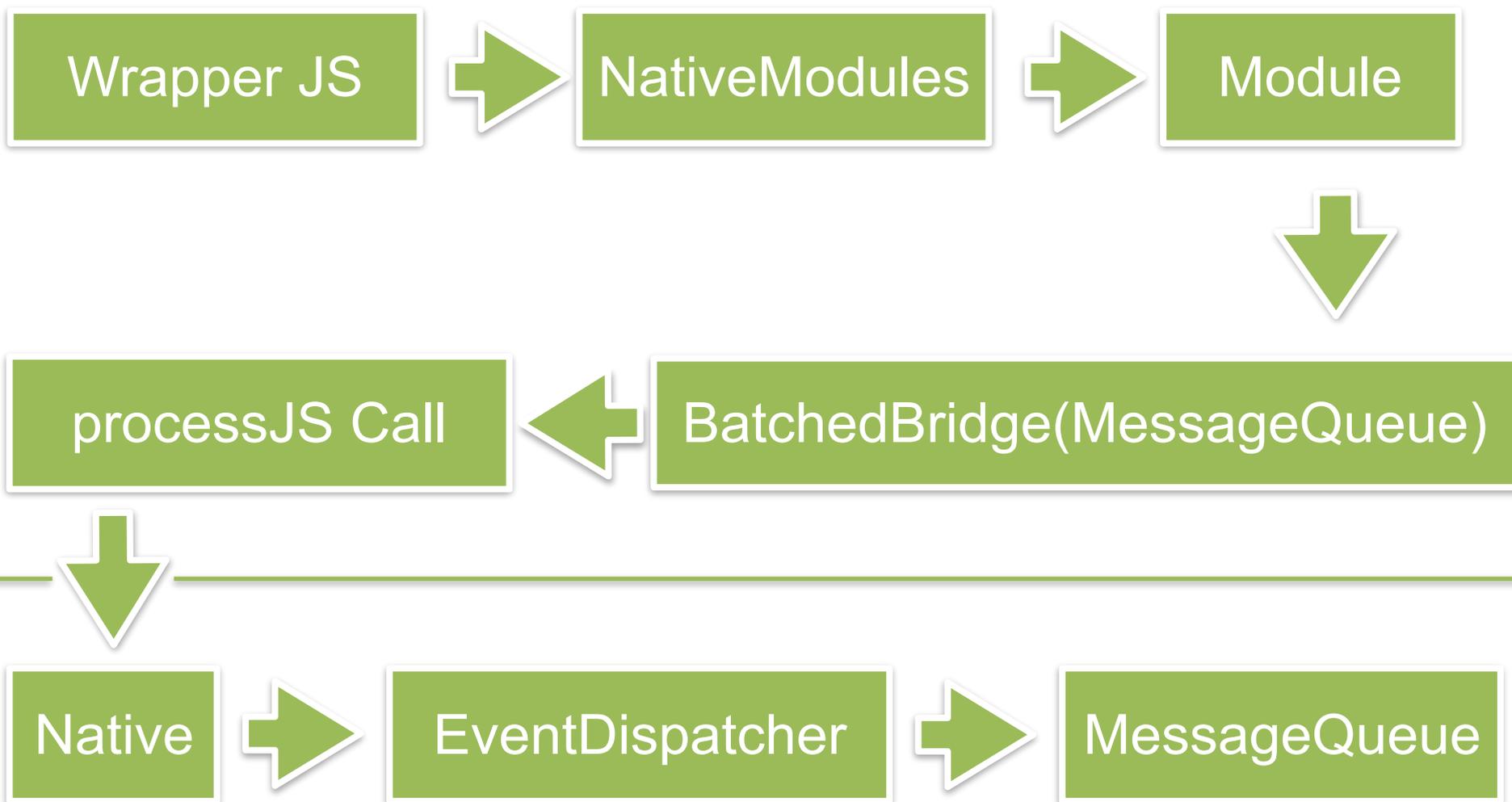
X



ВЫЗОВ НАТИВНОГО КОДА ИЗ JS.

```
var RNDeviceInfo = require('react-native').NativeModules.RNDeviceInfo;
```

```
module.exports = {  
  getUniqueId: function () {  
    return RNDeviceInfo.uniqueId;  
  },  
  getInstanceId: function() {  
    return RNDeviceInfo.instanceId;  
  },  
  getDeviceId: function () {  
    return RNDeviceInfo.deviceId;  
  },  
  ...  
}
```



MessageQueue

Timers



Вызов JS из нативного кода?

Пример на AppState

AppState

AppState can tell you if the app is in the foreground or background, and notify you when the state changes.

AppState is frequently used to determine the intent and proper behavior when handling push notifications.

```
class AppState extends NativeEventEmitter {  
  
  constructor() {  
    super(RCTAppState);  
  
    this.addListener(  
      'appStateDidChange',  
      (appStateData) => {  
        this.currentState = appStateData.app_state;  
      }  
    );  
  }  
}
```

Native -> JavaScript

```
@Override
```

```
public void onHostPause() {  
    mAppState = APP_STATE_BACKGROUND;  
    sendAppStateChangeEvent();  
}
```

```
@Override
```

```
public void onHostDestroy() {...}
```

```
private WritableMap createAppStateEventMap() {...}
```

```
private void sendAppStateChangeEvent() {
```

```
    getReactApplicationContext().getJSModule(RCTDeviceEventEmitter.class)  
        .emit("appStateDidChange", createAppStateEventMap());  
}
```

```
* ) $ react-native log-ios
hubber/node_modules (5ms)
ee log(1) for more information.
tion: Error occurred while trying to retrieve motion
nection_get_connected_socket_block_invoke 1547 Connec
nection_get_connected_socket_block_invoke 1548 Connec
nection_get_connected_socket_block_invoke 1549 Connec
nection_get_connected_socket_block_invoke 1550 Connec
nection_get_connected_socket_block_invoke 1551 Connec
nection_get_connected_socket_block_invoke 1552 Connec
nection_get_connected_socket_block_invoke 1553 Connec
nection_get_connected_socket_block_invoke 1554 Connec
ng>: Pasteboard change listener callback port <NSMach
```

Unhandled JS Exception: Error

```
throwOnImmutableMutation
index.ios.bundle?platform...=true&minify=false:4052:14

_trimBreadcrumbs
index.ios.bundle?platform...true&minify=false:49177:25

_trimPacket
index.ios.bundle?platform...true&minify=false:49158:79

_sendProcessedPayload
index.ios.bundle?platform...true&minify=false:49328:32

_send
index.ios.bundle?platform...true&minify=false:49309:43

_processException
index.ios.bundle?platform...true&minify=false:49135:19

_handleStackInfo
index.ios.bundle?platform...true&minify=false:49061:31

captureException
index.ios.bundle?platform...true&minify=false:48427:34

reportFatalError
index.ios.bundle?platform...v=true&minify=false:685:37

__guard
index.ios.bundle?platform...=true&minify=false:2482:36

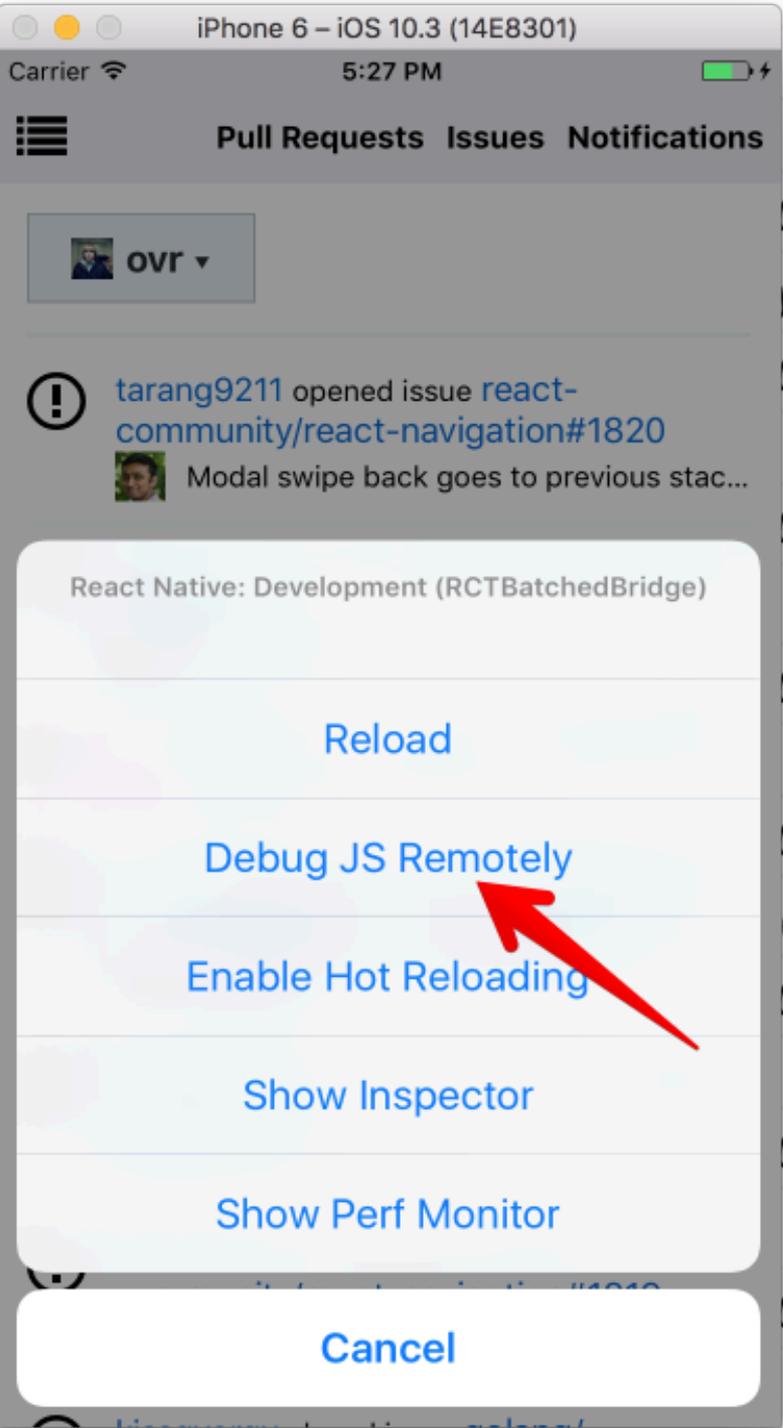
callFunctionReturnFlushedQueue
index.ios.bundle?platform...=true&minify=false:2365:19
```

Dismiss (ESC)

Reload JS (⌘R)

Copy (⌘C)

```
Running application "ghubber" with appParame...
▼ action Navigation/RESET @ 17:28:23.612
  prev state ▶ Object {accountFeed: Object
  action      ▶ Object {type: "Navigation/R
  next state  ▶ Object {accountFeed: Object
▼ action ACCOUNT_FEED_REQUEST @ 17:28:23.671
  prev state ▶ Object {accountFeed: Object
  action      ▶ Object {type: "ACCOUNT_FEED
  next state  ▶ Object {accountFeed: Object
▼ action APP_ORGANIZATIONS_SUCCESS @ 17:28:2
  prev state ▶ Object {accountFeed: Object
  action      ▶ Object {type: "APP_ORGANIZA
  next state  ▶ Object {accountFeed: Object
▼ action ACCOUNT_FEED_SUCCESS @ 17:28:27.568
  prev state ▶ Object {accountFeed: Object
  action      ▶ Object {type: "ACCOUNT_FEED
  next state  ▶ Object {accountFeed: Object
```



Приложение начинается с навигации

Какой у нас выбор?

JS

- [react-comunity/react-navigation](#)
- [aksonov/react-native-router-flux](#)
- ~~[jmurzy/react-router-native](#)~~

Native

- [wix/react-native-navigation](#)
- [airbnb/native-navigation](#)

Ну JS ведь однопоточный... Пошалим?)

```
render().{  
...  function sleepFor( sleepDuration ){  
...    let now = new Date().getTime();  
...    while(new Date().getTime() < now + sleepDuration){ /* do nothing */ }  
...  }  
  
...  sleepFor(5000);
```



iPhone 6 – iOS 10.3 (14E269)

Carrier 

11:42 PM



Pull Requests **Issues** **Notifications**

[Account](#)

[Account Issues](#)

[Profile @ovr](#)

[Profile @idchlife](#)

[About](#)

Реальная проблема

- Большой этап Render

Navigator transition delays :(

InteractionManager

InteractionManager allows long-running work to be scheduled after any **interactions/animations** have completed. In particular, this allows JavaScript animations to run smoothly.

Applications can schedule tasks to run after interactions with the following:

```
InteractionManager.runAfterInteractions(() => {  
  // ...long-running synchronous task...  
});
```

~~setTimeout не вариант~~

```
componentDidMount() {
  InteractionManager.runAfterInteractions(() => {
    this.setState({isReady: true});
  });
}

renderPlaceholder() {
  return (
    <View style={styles.container}>
      <Text>Loading...</Text>
    </View>
  )
}

render() {
  if (!this.state.isReady) {
    return this.renderPlaceholder();
  }

  doExpensiveOperation();

  return (
    <View style={[styles.container, {backgroundColor: 'white'}]}>
      <Text>Deferred expensive!</Text>
    </View>
  )
}
```

JS

- Больше сообщество
- Легко настраиваемые
- Анимация в JS Thread
- Беда с фрагментами

Native

- Плавные Анимации всегда
- SharedComponents
- Маленькое сообщество
- Сложнее в поддержке



И что выбрать?

Mobile vs Tablet

iPhone 6 – iOS 10.3 (14E269)

Carrier 9:56 PM

Profile

Overview Repositories 172



| Repos | Gists | Followers | Following |
|-------|-------|-----------|-----------|
| 172 | 39 | 151 | 8 |

Dmitry Patsura @ovr
@ghubber @lowl-io @interpals
📍 Docker, Container
✉ talk@dmtry.me
🌐 https://resume.dmtry.me/
Tell a little bit about your self



iPad Pro (9.7 inch) – iOS 10.3 (14E269)

Carrier 10:01 PM 40%

Profile

Overview Repositories 172



Dmitry Patsura @ovr
@ghubber @lowl-io @interpals
📍 Docker, Container
✉ talk@dmtry.me
🌐 https://resume.dmtry.me/
Tell a little bit about your self

| Repos | Gists | Followers | Following |
|-------|-------|-----------|-----------|
| 172 | 39 | 151 | 8 |



Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May

Mon
Wed
Fri



Mobile vs Tablet

```
import { isTablet } from 'react-native-device-info';  
  
import IssueRowMobile from './IssueRowMobile';  
import IssueRowTablet from './IssueRowTablet';  
  
export const IssueRow = isTablet() ? IssueRowTablet : IssueRowMobile;
```



Messages



Marissa

11:05

You: Marissa hasn't read this message



Hae-seong

11:05

You: Yay, you read this message!



Sergei

11:04

Audio message



Christina

Yesterday

Hi! This is an unread message, see how...



Fernando

Mar 13

typing...



Charlie

Mar 11

Hey man, how's it going?



Soo-mi

Dec 1, 2016

You: Image



Eugenia

Jul 3, 2016

Qué tal? cómo estás?



Messages



Marissa

11:05

You: Marissa hasn't read ...



Hae-seong

11:05

You: Yay, you read this m ...



Sergei

11:04

Audio message



Christina

Yesterday

Hi! This is an unread me...



Fernando

Mar 13

typing...



Charlie

Mar 11

Hey man, how's it going...



Charlie

Mar 11

Hey man, how's it going...



Charlie

Mar 11

Hey man, how's it going...



Charlie

Mar 11

Hey man, how's it going...



Charlie

Mar 11

Hey man, how's it going...



Charlie

Mar 11

Hey man, how's it going...

Today

Hi Antonio! 23:01

How's it going? 23:02

Extremity direction existence as dashwoods do up. Securing marianne led welcomed offended but offering six raptures. Conveying concluded newspaper rapturous oh at. 23:02

Style never met and those among great. At no or september sportsmen he perfectly. 23:11

Read



23:11



Write a message

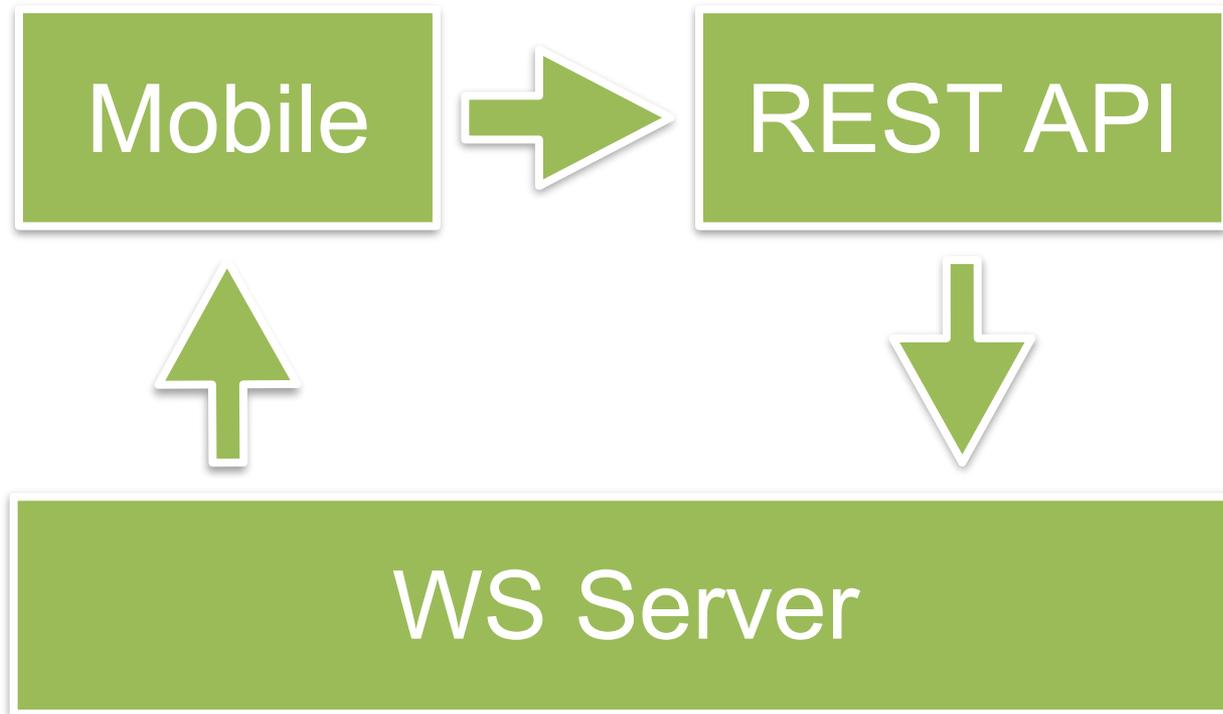


LI-FI - это как WiFi

- Ушел запрос, не вернулся
- Шел слишком долго (timeout)
- Интернета вообще нет =)



REST API + WS, но зачем?



WS + REST, но зачем?

- Синхронизация между устройствами
- Нотификации
- Обновление данных

Let's imagine

Диалоги

```
export type ThreadsState = {  
  threads: Array<ThreadEntity>,  
};
```

Диалог

```
export type DialogState = {  
  thread: ThreadResponse | null,  
};
```

```
case WS_THREAD_TYPING: {  
    const threadId: string = action.payload.thread_id;  
  
    if (state.thread && state.thread.id === threadId) {  
        return {  
            ...state,  
            typing: true  
        }  
    }  
  
    return state;  
}
```

Какая проблема?

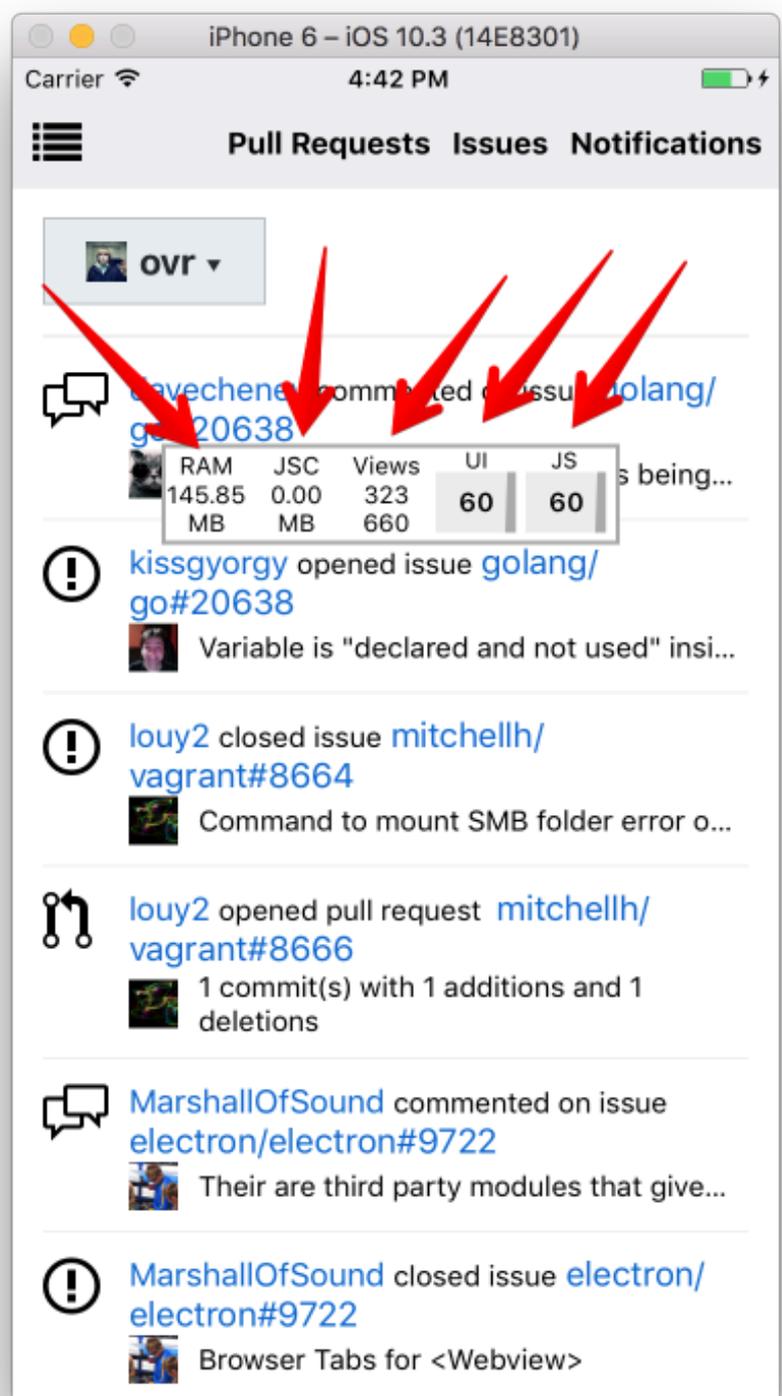
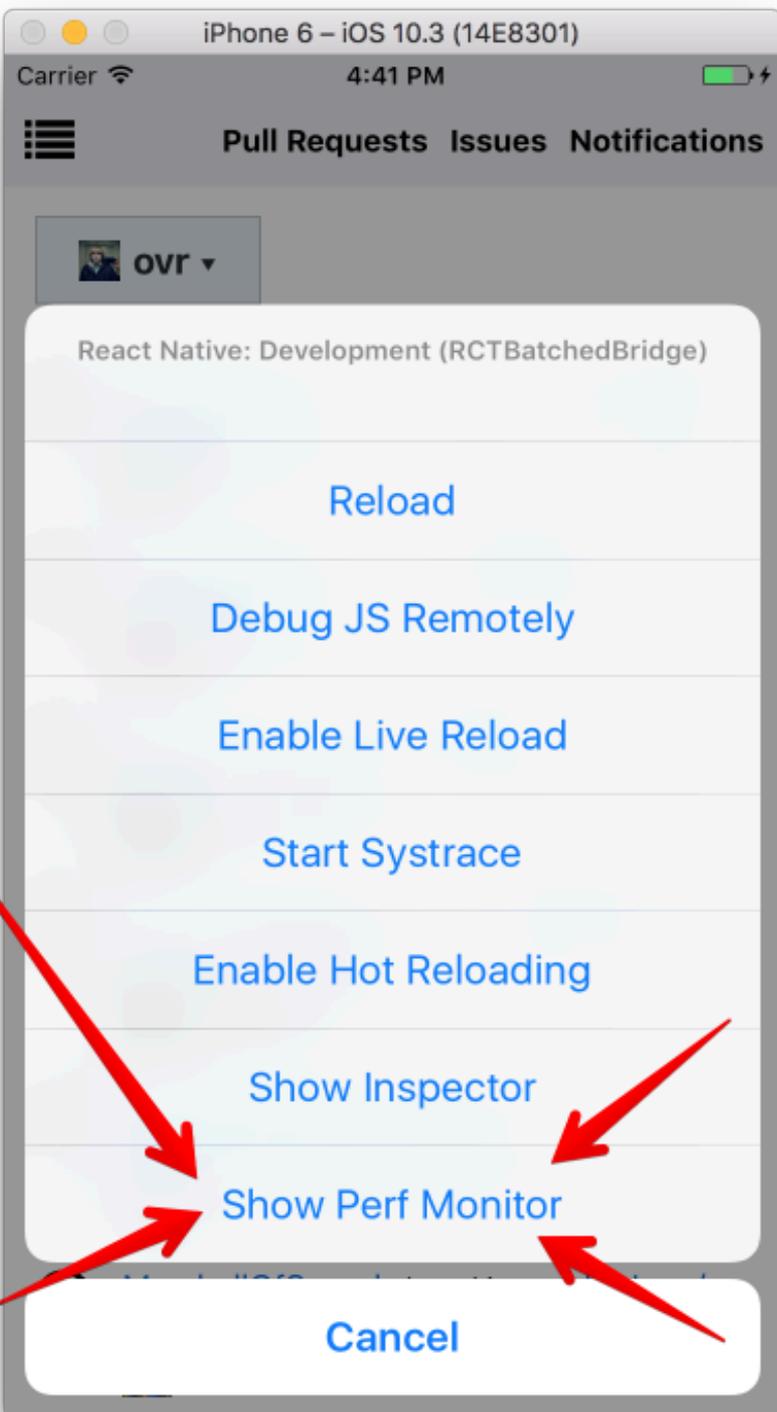
- Денормализованные данные (повторы)
- Много кода для обновления во всех местах
- Нормализованные данные нужны для БД

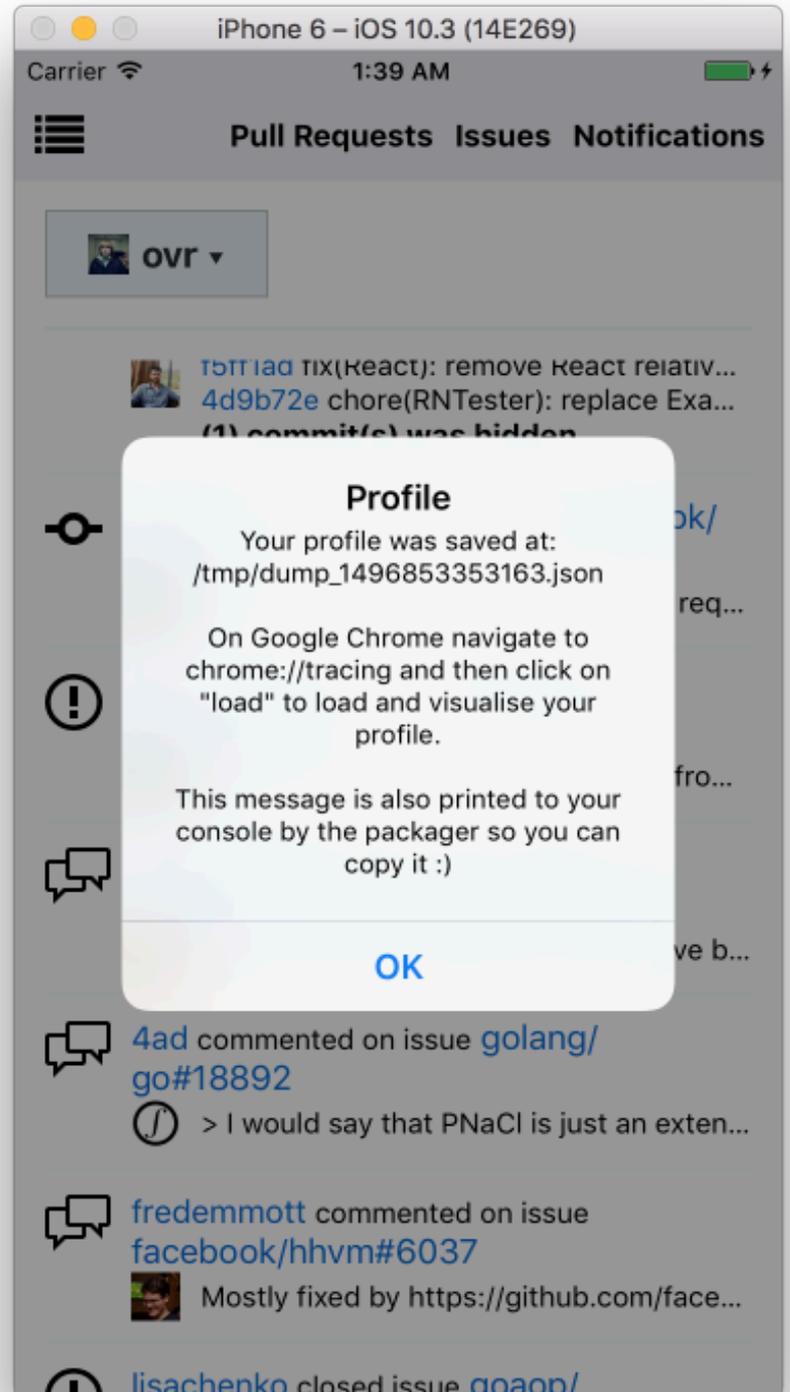
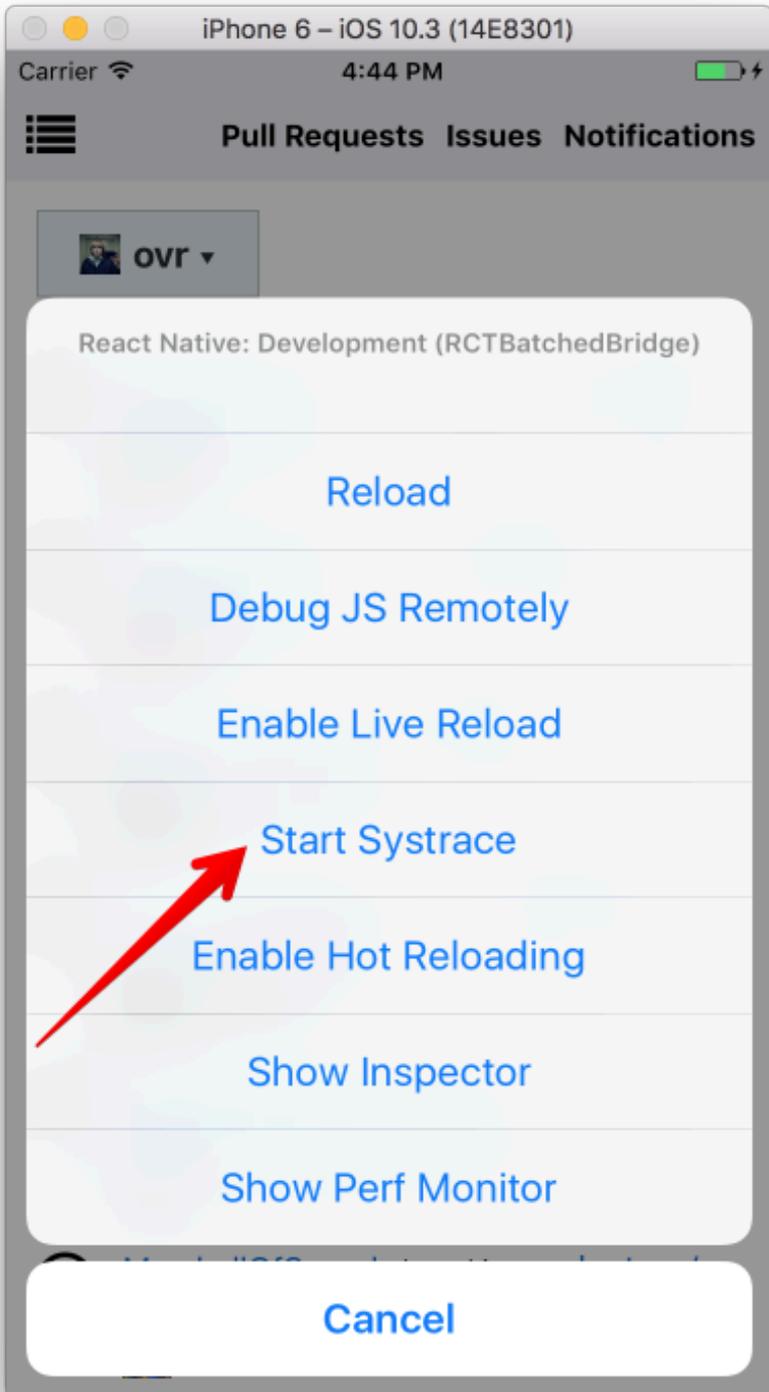
Как решать проблему?

- Normalizer - (normalize by Schema)
- Reselect (Memoized Selector)

Как мерить производительность?

- ~~На глаз на реальном устройстве~~
- Performance overlay
- Systrace
- CPU Profiler via Remote JS
- CPU Profiler

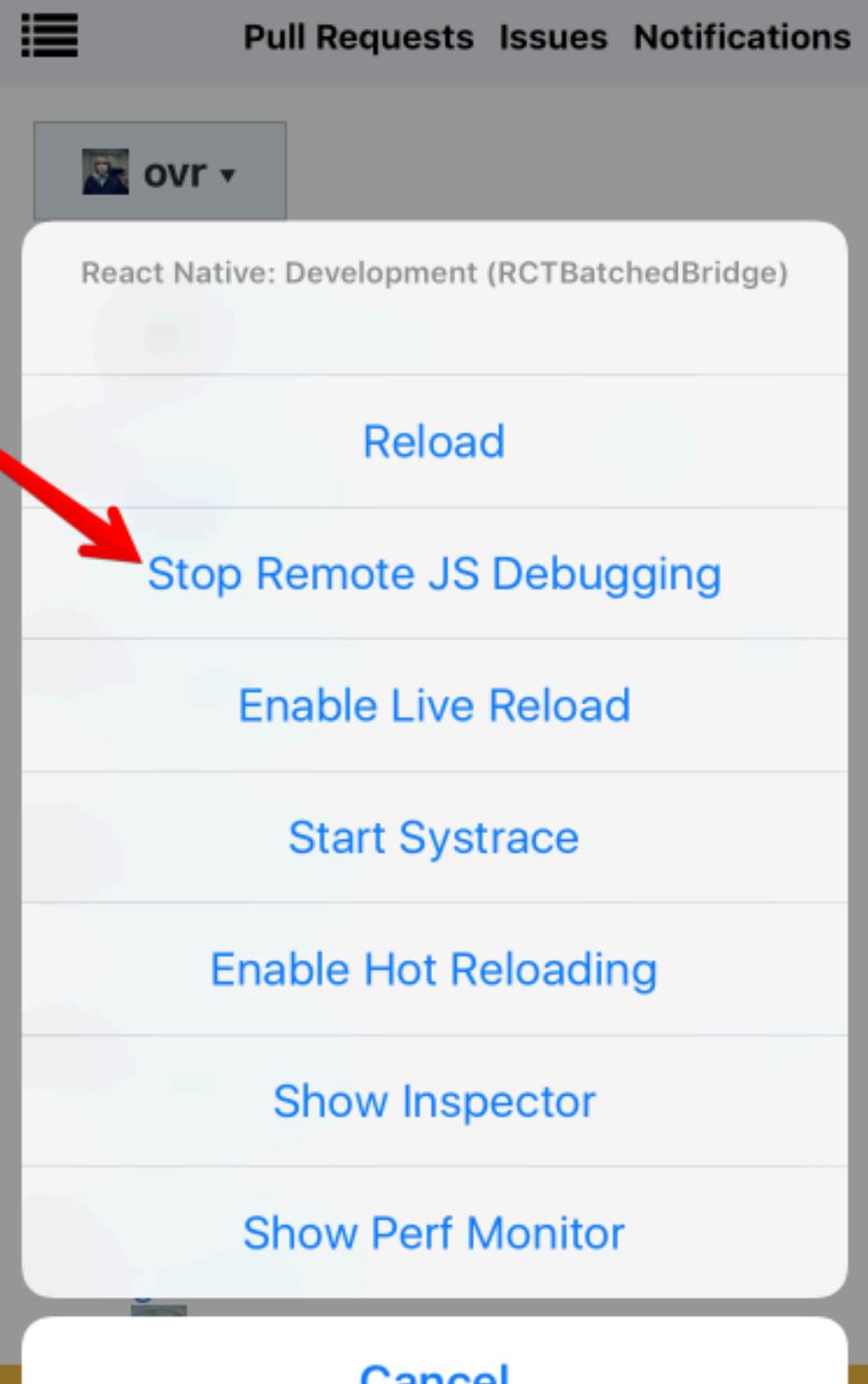
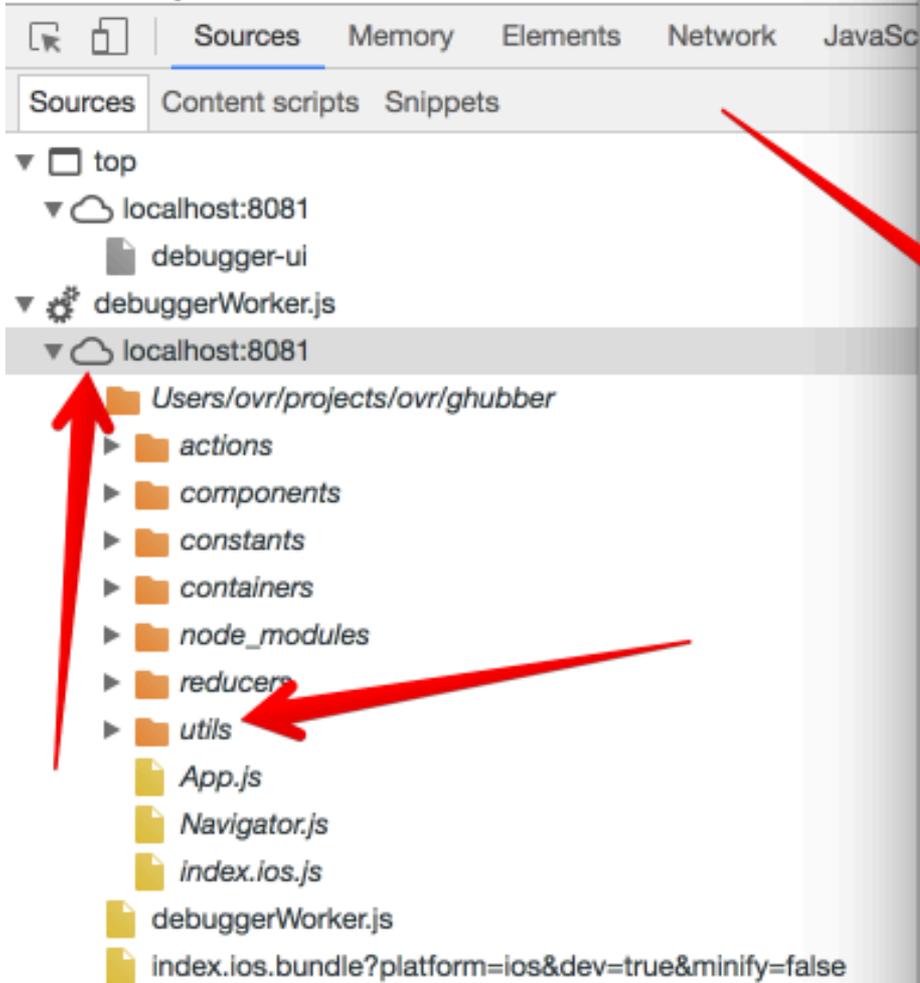




React Native JS code runs as a web worker in

Press `⌘ ⇧ J` to open Developer Tools. Enable

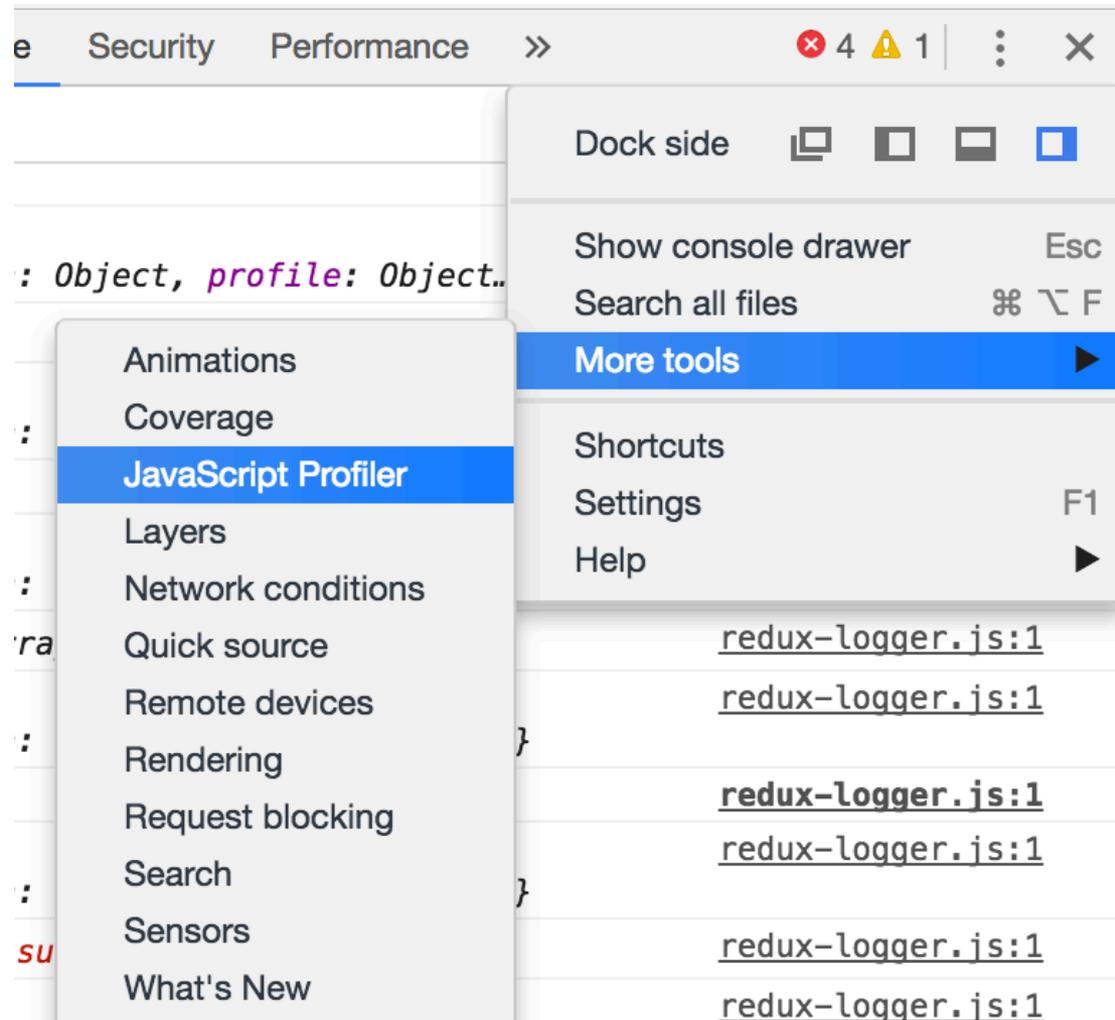
You may also install [the standalone version of](#)

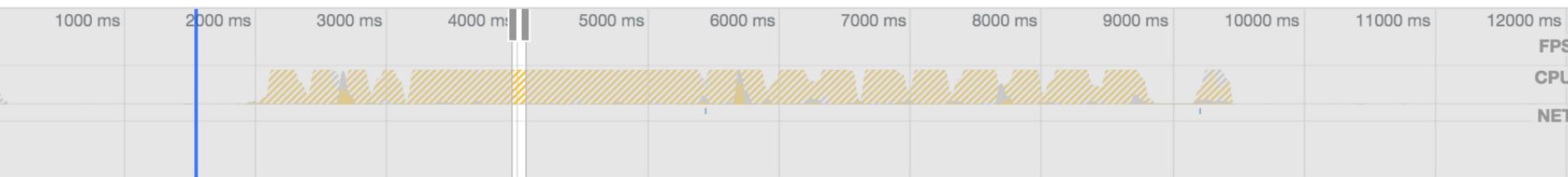


- ▼  top
 - ▼  localhost:8081
 -  debugger-ui
 - ▼  debuggerWorker.js
 - ▼  localhost:8081
 - ▼  *Users/ovr/projects/ovr/ghubber*
 - ▶  *actions*
 - ▶  *components*
 - ▶  *constants*
 - ▶  *containers*
 - ▶  *node_modules*
 - ▶  *reducers*
 - ▼  *utils*
 -  *configure-store.js*
 -  *filter-concat.js*
 -  *get-initial-state.js*
 -  *images.js*
 -  *index.js*
 -  *save-state-key.js*
 -  *team.js*
 -  *App.js*
 -  *Navigator.js*
 -  *index.ios.js*
 -  *debuggerWorker.js*
 -  *index.ios.bundle?platform=ios&dev=true&minify=false*

Есть 2 profiler

- Performance
- JavaScript Profiler



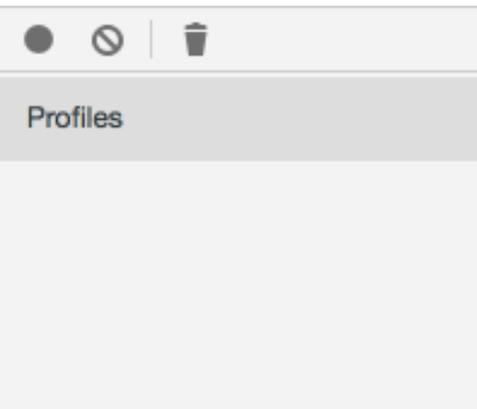


| 4.0 ms | 4014.5 ms | 4015.0 ms | 4015.5 ms | 4016.0 ms | 4016.5 ms | 4017.0 ms | 4017.5 ms | 4018.0 ms | 4018.5 ms | 4019.0 ms | 4019.5 ms | 4020.0 r |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| ▶ Network | | | | | | | | | | | | |
| _updateRenderedComponentWithNextElement | | | | | | | | | | | | |
| receiveComponent | | | | | | | | | | | | |
| receiveComponent | | | | | | | | | | | | |
| updateChildren | | | | | | | | | | | | |
| _updateChildren | | | | | | | | | | | | |
| _reconcilerUpdateChildren | | | | | | | | | | | | |
| updateChildren | | | | | | | | | | | | |
| receiveComponent | | | | | | | | | | | | |
| receiveComponent | | | | | | | | | | | | |
| updateComponent | | | | | | | | | | | | |
| _performComponentUpdate | | | | | | | | | | | | |
| _updateRenderedComponent | | | | | | | | | | | | |
| _renderValidatedComponent | | | | | | | | | | | | |
| _updateRenderedComponentWithNextElement | | | | | | | | | | | | |
| _renderValidatedComponentWithoutOwnerOrContext | | | | | | | | | | | | |
| receiveComponent | | | | | | | | | | | | |
| measureLifeCyclePerf | | | | | | | | | | | | |
| receiveComponent | | | | | | | | | | | | |
| (anonymous) | | | | | | | | | | | | |
| updateComponent | | | | | | | | | | | | |
| render | | | | | | | | | | | | |
| _performComponentUpdate | | | | | | | | | | | | |
| renderPushEvent | | | | | | | | | | | | |
| _updateRenderedComponent | | | | | | | | | | | | |
| renderCommitsList | | | | | | | | | | | | |
| creat...ement | | | | | | | | | | | | |
| renderWrapper | | | | | | | | | | | | |
| _updateRenderedComponentWithNextElement | | | | | | | | | | | | |
| createElement | | | | | | | | | | | | |
| valida...Types | | | | | | | | | | | | |
| createElement | | | | | | | | | | | | |
| receiveComponent | | | | | | | | | | | | |
| validatePropTypes | | | | | | | | | | | | |
| check...Types | | | | | | | | | | | | |
| validatePropTypes | | | | | | | | | | | | |
| receiveComponent | | | | | | | | | | | | |
| checkPropTypes | | | | | | | | | | | | |
| (anonymous) | | | | | | | | | | | | |
| checkP...Types | | | | | | | | | | | | |
| updateChildren | | | | | | | | | | | | |

Summary Bottom-Up Call Tree Event Log

renderPushEvent

Self Time 0
 Total Time 4.36 ms
 Function renderPushEvent @ [EventRowTablet.js:68](#)



Profiles

Record JavaScript CPU Profile

CPU profiles show where the execution time is spent in your page's JavaScript functions.

Target:

Start

Load

| Self Time | Total Time | Function |
|-------------------|-------------------|--|
| 8109.3 ms | 8109.3 ms | (idle) |
| 1190.1 ms 16.52 % | 2572.5 ms 35.71 % | ▶ checkType createStrictSha...eChecker.js:20 |
| 765.6 ms 10.63 % | 795.6 ms 11.05 % | ▶ mergeInto index.ios.bundl...minify=false:0 |
| 525.3 ms 7.29 % | 525.3 ms 7.29 % | (program) |
| 483.1 ms 6.71 % | 569.1 ms 7.90 % | ▶ checkType factoryWithTypeCheckers.js:153 |
| 248.3 ms 3.45 % | 248.3 ms 3.45 % | (garbage collector) |
| 236.7 ms 3.29 % | 6037.6 ms 83.82 % | ▶ updateComponent ReactCompositeComponent.js:829 |
| 183.5 ms 2.55 % | 403.5 ms 5.60 % | ▶ ReactElement.createElement react.development.js:535 |
| 183.3 ms 2.55 % | 2875.9 ms 39.93 % | ▶ checkPropTypes index.ios.bundl...minify=false:0 |
| 152.8 ms 2.12 % | 152.8 ms 2.12 % | ▶ ReactElement index.ios.bundl...minify=false:0 |
| 138.5 ms 1.92 % | 3404.9 ms 47.27 % | ▶ createElement react.development.js:1744 |
| 106.1 ms 1.47 % | 6019.2 ms 83.57 % | ▶ _performComponentUpdate ReactCompositeC...ponent.js:1013 |
| 105.0 ms 1.46 % | 5949.7 ms 82.60 % | ▶ receiveComponent ReactNativeBaseComponent.js:93 |
| 103.8 ms 1.44 % | 5945.9 ms 82.55 % | ▶ updateChildren ReactChildReconciler.js:111 |
| 102.3 ms 1.42 % | 115.1 ms 1.60 % | ▶ validate deprecatedPropType.js:23 |
| 101.8 ms 1.41 % | 107.3 ms 1.49 % | ▶ deepFreezeAndThrowOnMutationInDev deepFreezeAndTh...ionInDev.js:32 |
| 84.8 ms 1.18 % | 5982.2 ms 83.05 % | ▶ _updateRenderedComponentWithNextElement ReactCompositeC...ponent.js:1137 |
| 84.6 ms 1.18 % | 2672.6 ms 37.10 % | ▶ chainedCheckType createStrictSha...eChecker.js:64 |
| 70.9 ms 0.98 % | 70.9 ms 0.98 % | ▶ hasOwnProperty |
| 66.5 ms 0.92 % | 5981.1 ms 83.04 % | ▶ receiveComponent ReactCompositeComponent.js:762 |
| 66.3 ms 0.92 % | 5947.1 ms 82.56 % | ▶ _updateChildren ReactMultiChild.js:364 |
| 65.5 ms 0.91 % | 69.1 ms 0.96 % | ▶ Object.assign Object.es6.js:18 |
| 53.8 ms 0.75 % | 65.4 ms 0.91 % | ▶ diffProperties ReactNativeAttr...Payload.js:298 |
| 50.8 ms 0.71 % | 74.5 ms 1.03 % | ▶ colorPropType ColorPropType.js:15 |
| 45.1 ms 0.63 % | 6425.4 ms 89.20 % | (anonymous) debuggerWorker.js:51 |
| 43.2 ms 0.60 % | 93.4 ms 1.30 % | ▶ deepFreezeAndThrowOnMutationInDev index.ios.bundl...minify=false:0 |
| 42.7 ms 0.59 % | 6018.7 ms 83.56 % | ▶ _updateRenderedComponent ReactCompositeC...ponent.js:1121 |
| 42.4 ms 0.59 % | 2675.1 ms 37.14 % | ▶ (anonymous) StyleSheetPropType.js:21 |
| 41.6 ms 0.58 % | 274.0 ms 3.80 % | ▶ checkPropTypes checkPropTypes.js:30 |
| 39.9 ms 0.55 % | 39.9 ms 0.55 % | ▶ isSymbol index.ios.bundl...minify=false:0 |
| 39.9 ms 0.55 % | 4131.3 ms 57.36 % | ▶ receiveComponent index.ios.bundl...minify=false:0 |
| 37.0 ms 0.51 % | 43.6 ms 0.61 % | ▶ _processPendingState index.ios.bundl...minify=false:0 |

- ▼ top
 - ▼ localhost:8081
 - debugger-ui
 - ▼ debuggerWorker.js
 - ▼ localhost:8081
 - ▼ Users/ovr/projects/ovr/ghubber
 - ▶ actions
 - ▶ components
 - ▶ constants
 - ▶ containers
 - ▶ node_modules
 - ▶ reducers
 - ▼ utils
 - configure-store.js
 - filter-concat.js
 - get-initial-state.js
 - images.js
 - index.js
 - save-state-key.js
 - team.js
 - App.js
 - Navigator.js
 - index.ios.js
 - debuggerWorker.js
 - index.ios.bundle?platform=ios&dev=true&minify=false



```
export function filterConcat<T: Object>(current: Array<T>, next: Array<T>): Array<T> {
  if (current.length === 0) {
    return next;
  }

  if (next.length === 0) {
    return current;
  }

  // @todo Think a little bit more about this idea
  // const lastCurrentIndex = last(current).id;
  // const splitIndex = next.findIndex((item) => item.id === lastCurrentIndex);
  //
  // if (splitIndex === -1) {
  //   return current.concat(next);
  // }
  //
  // // Remove some part of repeated elements
  // next.splice(splitIndex)

  next = next.filter(
    (entity) => {
      return current.findIndex((item) => item.id === entity.id) === -1
    }
  )

  return current.concat(next);
}
```

0.1 ms

0.5 ms

Production подготовка

Если ошибка может быть допущена, она обязательно будет допущена.

- Native ошибки (dsym for ios)
- Ошибки в JS (source map/bundle.js)
- Сервер в open source
- Остальные проекты?
- Server inside Docker?)



Sentry

Official Sentry SDKs

- [JavaScript](#)
- [React-Native](#)
- [Python](#)
- [Ruby](#)
- [Node](#)
- [PHP](#)
- [Go](#)
- [Java](#)
- [Swift](#)
- [Objective C](#)
- [C#](#)
- [Perl](#)

JS

actions/profile-repositories.js in username at line 52:12 [?](#)

```
47.     dispatch({
48.         type: PROFILE_REPOSITORIES_MORE_REQUEST
49.     });
50.
51.     const request = getRepositoriesByUsername(
52.         username,
53.         {
54.             page,
55.             sort: 'pushed',
56.             "per_page": 50
57.         }
```

containers/ProfileRepositories/ProfileRepositories.js in username at line 66:97 [?](#)

Called from: node_modules/react-native/Libraries/Lists/VirtualizedList.js in onEndReached [?](#)

BREADCRUMBS

| | | | |
|---|-------------------------|---|----------|
| ⋮ | Show 9 collapsed crumbs | | |
| ↺ | fetch | GET https://api.github.com/users/ovr/orgs | 17:33:28 |
| ↺ | fetch | GET https://api.github.com/users/ovr/repos?sort=pushed&per_page=50 | 17:33:28 |
| ↺ | xhr | GET https://api.github.com/users/ovr [200] | 17:33:28 |
| ↺ | xhr | GET https://api.github.com/users/ovr/orgs [200] | 17:33:29 |
| ↺ | xhr | GET https://api.github.com/users/ovr/repos?sort=pushed&per_page=50 [200] | 17:33:29 |
| ↺ | fetch | GET https://api.github.com/users/ovr/repos?page=2&sort=pushed&per_page=50 | 17:33:35 |
| ↺ | xhr | GET https://api.github.com/users/ovr/repos?page=2&sort=pushed&per_page=50 [200] | 17:33:36 |
| ↺ | fetch | GET https://api.github.com/repos/ovr/ghubber/readme | 17:33:39 |
| ↺ | xhr | GET https://api.github.com/repos/ovr/ghubber/readme [200] | 17:33:39 |
| ⚠ | exception | Error: Missing required parameter: username | 17:33:47 |

🔗 DEVICE

| | |
|--------------|---|
| Family | iPad |
| Model | iPad6,11 (J71sAP) |
| Architecture | arm64 |
| Memory | Total: 1.9 GB / Free: 171.6 MB / Usable: 1.4 GB |
| Capacity | Total: 29.8 GB |
| Simulator | false |
| Boot Time | 2017-05-16T11:07:43Z |
| Timezone | GMT+9 |

Правильный deploy приложения, экономит нам время.

- Сборка приложения под iOS/Android
- Обновление статичной информации в iTunes/Play Market
- Создание скриншотов
- Доставка в beta/alpha/prod



fastlane

Как тестировать приложение?

- Flow
- Unit - смотри Jest
- Интеграционное тестирование

Плюсы RN

- Инкрементальная сборка
- Быстро развивается
- Мультиплатформенность (iOS + Android)
- React/JS для Frontend программиста
- Native look



Минусы RN

- Где же идеальные компоненты навигации!?
- Android (верстка) бывает грустно :(
- Качество open-source компонентов из сообщества
- Не всегда можно просто и легко перейти на новый релиз
- Молодая технология?



<https://github.com/ovr>



<https://github.com/ovr/ghubber>

talk@dmtry.me

<https://telegram.me/ovrweb>

inter  **pals**