工作知识日志

# 手机开发环境

## 手机调试设置

./adb reverse tcp:8081 tcp:8081

adb.exe reverse tcp:8081 tcp:8081

## 手机开发工具

环境：

react-native

android-studio

WebStorm-2018.3.2

## 运行操作

运行：

D:\Workspace\wanwallet\wallet>npm install

D:\Workspace\wanwallet\wallet>react-native bundle --platform android --dev false --entry-file index.js --bundle-output android/app/src/main/assets/index.android.bundle --assets-dest android/app/src/main/res

/\*

这个命令比较长，背后就干了一件事，将JS代码转成bundle，供原生平台下载，并解析渲染成UI,详细解释：

--entry-file ,ios或者android入口的js名称，比如index.ios.js

--platform ,平台名称(ios或者android)

--dev ,设置为false的时候将会对JavaScript代码进行优化处理。

--bundle-output, 生成的jsbundle文件的名称，比如./ios/bundle/index.ios.jsbundle

--assets-dest 图片以及其他资源存放的目录,比如./ios/bundle

设置该命令是为了解决调试时某些版本找不到入口的问题--打包时要执行

\*/

D:\Workspace\wanwallet\wallet>react-native run-android

界面代码目录：

D:\Workspace\wanwallet\wallet\src

maven { url ‘http://maven.aliyun.com/nexus/content/groups/public’}

<http://172.31.33.181/confirmord?ordId=xxx&buyerAddr=yy&txHash=zzz>

<http://172.31.33.181/historyorder?accountAddr=xxxx>

# 设置npm源

## 设置阿里源

注意 Node 的版本必须高于 8.3，Python 的版本必须为 2.x（不支持 3.x），而 JDK 的版本必须是 1.8（目前不支持 1.9 及更高版本）。安装完 Node 后建议设置 npm 镜像以加速后面的过程（或使用科学上网工具）。

注意：不要使用 cnpm！cnpm 安装的模块路径比较奇怪，packager 不能正常识别！

npm config set registry https://registry.npm.taobao.org --global

npm config set disturl https://npm.taobao.org/dist --global

## Yarn、React Native 的命令行工具（react-native-cli）-- 建议使用yarn

[Yarn](http://yarnpkg.com/)是 Facebook 提供的替代 npm 的工具，可以加速 node 模块的下载。React Native 的命令行工具用于执行创建、初始化、更新项目、运行打包服务（packager）等任务。

npm install -g yarn react-native-cli

安装完 yarn 后同理也要设置镜像源：

yarn config set registry https://registry.npm.taobao.org --global

yarn config set disturl https://npm.taobao.org/dist --global

安装完 yarn 之后就可以用 yarn 代替 npm 了，例如用yarn代替npm install命令，用yarn add 某第三方库名代替npm install 某第三方库名。

Yarn link

## 安装windows-build-tools

On Windows 10, Scrypt is built using node-gyp, which can be acquired by globally installing Microsoft's Windows Build Tools, so install that first from an elevated PowerShell or CMD.exe (run as Administrator).

npm install --global --production windows-build-tools

It takes a while.

Then get node-gyp:

npm install -g node-gyp

Then you should be able to run

npm install -g scrypt

This info comes from node-gyp's github page.

# 环境搭建

1. 创建项目

react-native init wanphonewallet

1. 安装mobx

cd wanphonewallet

npm install mobx mobx-react --save

npm install @babel/plugin-proposal-decorators --save-dev

在项目目录下（本项目为wanphonewallet）添加.babelrc文件,内容如下：

{

"presets": ["module:metro-react-native-babel-preset"],

"plugins": [

[

"@babel/plugin-proposal-decorators",

{

"legacy": true

}

]

]

}

1. 安装react-native-i18n

npm install react-native-i18n

1. 安装native-base

npm install native-base

5) 安装i18n后要react-native link

# 关键包的安装记录

sudo apt-get install libudev-dev

# react-native常用命令

## 安装react-native

npm install -g react-native-cli

## 启动React Native服务

,在运行项目时启动服务使客户端和服务器连接一起，当使用reload时会从服务器上拿到最新的code。

react-native start

## 运行Android工程

react-native run-android

## 在server端的窗口触发React Native reload

rr

## 安装某个lib到项目中

npm install react-native-storage –save

给下载的普通工程下载安装RN环境,根据配置的package.json 下载依赖库。当然如果你配置了yarn环境之后也可以用yarn install

npm install

## 为Android 工程添加module

react-native link

## 只打React-Native对应的log

react-native log-android

或者用adb logcat | grep 过滤关键字。

## 更新本地React Native的版本

npm update -g react-native-cli

## 查询react native的npm包最新版本

npm info react-native

## 升级或降级npm包的版本

npm install –save react-native@0.26.3

## 查看本地的React Native的版本

react-naive –version

## 更新npm

sudo npm install npm -g

# 常用ADB命令和模拟器命令

## ADB命令

adb devices //显示连接上的设备(自动start-server)

adb kill-server

adb start-server

adb install //安装

adb uninstall app包名

adb -s 设备名称 //当连接多个设备时指定一个设备

adb root //获取root权限

adb kill [pid] //杀死进程

重启手机

adb reboot

重启到Recovery界面

adb reboot recovery

重启到bootloader界面

adb reboot bootloader

文件管理

adb pull <远程文件地址>

adb push <本地文件地址> <远程文件地址>

adb shell 进入终端模式

过滤关键字

adb logcat | grep 过滤关键字

## shell命令

ls -l 显示当前目录下所有文件的权限信息

chmod 777 <文件> 赋予所有权限

chmod -R 777 \*

## 模拟器命令

emulator -avd <模拟器设备名> //启动模拟器，设备信息存放在C:\Users\mingC.android\avd中

# 升级相关

src/screens/setting/CheckVersionScreen.js

src/screens/setting/UpgradeScreen.js

src/upgrade/UpdateHelper.js

packages/react-native-update/index.js

packages/react-native-update/android/src/main/java/com/remobile/update/RCTUpdateMgr.java

packages/react-native-update/android/src/main/java/com/remobile/update/RCTUpdate.java

版本配置相关文件

android/app/build.gradle

src/config/config.js

<https://github.com/remobile/react-native-update>

# rn-nodeify

npm install rn-nodeify

rn-nodeify为react-native安装node.js的模块，在手机中使用，但安装的几个包版本有问题，但react-native link时，会修改java文件，以至于无法编译通过，它们是：

react-native-os

react-native-tcp

react-native-udp

为此需要将这三个模块的版本写死带代码中：或者这三个模块不要react-native link

**"react-native-os": "1.2.2",**

**"react-native-tcp": "3.3.2",**

**"react-native-udp": "2.6.1",**

**rn-nodeify在安装后，使用有两种方式：**

1. **手动执行命令**

**./node\_modules/.bin/rn-nodeify --hack –install**

1. **Npm post执行：**

"scripts": {

"start": "node node\_modules/react-native/local-cli/cli.js start",

"test": "jest",

**"postinstall": "rn-nodeify --install --hack** && react-native link "

},

Rn-nodeify命令在执行后会修改package.json文件，将各个模块的版本都会写在package.json中，下次执行npm install则会根据package.json下载模块。

因此没有必要每次都要rn-nodeify –install –hack

为了省事，可以采用以下步骤

1. 运行rn-nodeify –install –hack
2. 修改package.json中的模块版本（react-native-os/react-native-tcp/react-native-udp）
3. 在删掉node\_modes目录，
4. 在执行npm install
5. 然后在react-native link

这个坑，--一天的时间

Troubleshooting

由于网络原因，在执行安装过程中，部分模块可能安装不完全，在运行程序时出现“XX”模块找不到的错误，此时需再执行以下命令

npm i --save-dev tradle/rn-nodeify

**./node\_modules/.bin/rn-nodeify --hack --install -o**

* 特别说明

npm i --save react-native-crypto

# install peer deps

npm i --save react-native-randombytes

react-native link react-native-randombytes

# install latest rn-nodeify

npm i --save-dev rn-nodeify@latest

# install node core shims and recursively hack package.json files

# in ./node\_modules to add/update the "browser"/"react-native" field with relevant mappings

./node\_modules/.bin/rn-nodeify --hack --install

# 特别组件

## react-native-modalbox

<https://www.npmjs.com/package/react-native-modalbox>

### props

|  |  |  |  |
| --- | --- | --- | --- |
| prop | default | type | description |
| isOpen | false | bool | Open/close the modal, optional, you can use the open/close methods instead |
| isDisabled | false | bool | Disable any action on the modal (open, close, swipe) |
| backgropPressToClose | true | bool | Close the modal by pressing on the backdrop |
| swipeToClose | true | bool | Set to true to enable the swipe down to close feature |
| swipeThreshold | 50 | number | the threshold to reach in pixel to lose the modal |
| position | center | string | Control the modal position using top or center or bottom |
| entry | bottom | string | Control the modal entry position top or bottom |
| backdrop | true | bool | Display a backdrop behind the modal |
| backdropOpacity | 0.5 | number | Opacity of the backdrop |
| backdropColor | black | string | backgroud Color of the backdrop |
| backdropContent | null | ReactElement | Add an element in the backdrop(a close button for example) |
| animationDuration | 400 | number | Duration of the animation |
| easing | Easing.elastic(0,8) | function | Easing function applied to opening modal animation |
| backButtonClose | false | bool | (Android onle) Close modal when receiving back button event |
| startOpen | false | bool | Allow modal to appear open without animation upon first mount |
| coverScreen | false | bool | Will use RN Modal Component to Cover the entire screen wherever the modal is mounted in the component hierarchy |
| keyboardTopOffset | ios22, android:0 | number | this property prevent the modal to cover the ios status bar when the modal is scrolling up because the keyboard is opening |
| useNativeDriver | true | bool | Enable the hardware acceleration to animate the modal. Please note that enabling this can cause some flashes in a weird way when animating |

### Events

|  |  |  |
| --- | --- | --- |
| Prop | Param | Description |
| onClose |  | when the modal is close and the animation is done |
| onOpened |  | when the modal is open and the animation is done |
| onClosingState | state bool | when the state of the swipe to close feature has changed (usefull to change the content of the modal, display a message for example) |

### Methods

these methods are optional, you can use the isOpen property instead

|  |  |  |
| --- | --- | --- |
| Prop | Params | Description |
| open |  | Open the modal |
| close |  | Close the modal |

## react-native-qrcode-scanner

react-native-qrcode-scanner依赖于插件react-native-camera插件，但不依赖于最新的react-native-camera库。

**"react-native-camera": "^1.0.2",**

**"react-native-qrcode-scanner": "^1.2.1"**

**在安装react-native-qrcode-scanner时会提示安装react-native-camera的版本。**

**安装后要react-native link**

### Methods

reactivate()

Call this method to programmatically enabling scanning agian. use this by attaching a ref like so <QRCodeScanner ref={(node)=> { this.scanner=node}} and calling this.scanner.reactive()

### Props

#### onRead(required)

propType: func.isRequired default: (e) => (console.log(‘QR code scanned!’,e))

will call this specified method when a QR code or a barcode is detected in the camera’s view passing in the event emitted upon reading the code

#### fadeIn(淡入)

propType : bool default: true

when set to true this ensure that the camera view fades in after the initial load up instead of being rendered immediately. Set this to false to prevent the animated fade in of the camera view

#### reactive

proType: bool default: false

when set to false, when a QR code is scanned, the QRCodeScanner will not scan another code until it is re-rendered. when set to true this will reactive the scanning ability of the component.

#### reactivateTimeout

proType: number default: 0

Use this to configure how long it should taken before the QRCodeScanner should reactivate.

#### topContent

propType: oneofType([propTypes.element, PropTypes.string,])

Use this to render an additional content at the top of the camera view.

#### bottomContent

propType: oneOfType([PropTypes.element, PropTypes.string,])

use this to render any additional content at the bottom of the camera view

#### containerStyle

propType:any

Use this to pass styling for the outermost container, Useful for adding margin/padding to account for navigation bar.

#### cameraStyle

propType: any

use this to pass or overwrite styling for the camera window rendered.

#### topViewStyle

propType: any

Use this to pass or overwrite styling for the <View> the contains the topContent prop

#### bottomViewStyle

propType: any

Use this to pass or overwrite styling for the <View> that contains the bottomConent prop.

#### showMarker

propType: boolean default: false

use this to show marker on the camera scanning window.

#### customMarker

propType: element

pass a RN element/component to use it as a custom marker.

#### markerStyle

propType: any

use this to add custom styling to the default marker

#### not AuthorizedView

propType: element

Pass a RN element/component to use it when no permissions given to the camera(ios only).

#### cameraType

propType: oneOf([‘font’,’back’]) default: ‘back’

Use this to control which camera to use for scanning QR codes, defaults to rear camera

#### checkAndroid6Permission

propType: bool default: false

Use this to enable permission checking on Android 6

#### permissionDialogTitle

propType: string default: ‘Info’

Use this to setting permission dialog title (Android only)

#### permissionDialogMessage

propType: string default:’Need camera permission’

use this to setting permission dialog message(Android only)

#### cameraProps

propType: object

Properties to be passed to the Camera component

## react-native-material-dropdown

### install

npm install --save react-native-material-dropdown

### example

import React, { Component } from 'react';

import { Dropdown } from 'react-native-material-dropdown';

class Example extends Component {

render() {

let data = [{

value: 'Banana',

}, {

value: 'Mango',

}, {

value: 'Pear',

}];

return (

<Dropdown

label='Favorite Fruit'

data={data}

/>

);

}

}

### Properties

|  |  |  |  |
| --- | --- | --- | --- |
| name | description | type | default |
| label | Text field label text | string | - |
| error | Text field error text | string | - |
| animationDuration | text field animation duration in ms | number | 225 |
| fontSize | text field font size | number | 16 |
| labelfontsize | text field label font size | number | 12 |
| baseColor | Text field base color | string | rgba(0,0,0,.38) |
| textColor | Text filed text color | string | rgba(0,0,0,.87) |
| itemColor | Dropdown item text color(inactive item) | string | rgba(0,0,0,.54) |
| selectedItemColor | Dropdown item textColor(active item) | String | rgba(0,0,0,.87) |
| disableditemColor | Dropdow item text color (disable item) | string | rgba(0,0,0,.38) |
| dropdownPosiont | dropdown position (dynamic if undefined) | Number | - |
| itemCount | Dropdown visible item count | number | 4 |
| itemPadding | Dropdown item vertical padding | Number | 8 |
| itemTextStyle | Dropdown item text styles | Object | - |
| dropdownOffset | Dropdown offset | Object | {top:32, left:0} |
| dropdownMargins | Dropdown margins | Object | {min:8, max: 16} |
| data | Dropdown item data | Array | [] |
| value | Selected value | String | - |
| containerStyle | styles for container View | Object | - |
| overlayStyle | styles for overlay view | Object | - |
| pickerStyle | Styles for item picker view | Object |  |
| shadeOpacity | Shade opacity for dropdown items | Number | 0.12 |
| rippleOpacity | Opacity for ripple effect | Number | 0.54 |
| rippleInsets | Insets for ripple on base component | Object | { top: 16, bottom: -8 } |
| rippleCentered | Ripple on base component should be centered | Boolean | false |
| renderBase | Render base component | Function | - |
| renderAccessory | Render text field accessory | Function | - |
| valueExtractor | Extract value from item (args: item, index) | Function | ({ value }) => value |
| labelExtractor | Extract label from item (args: item, index) | Function | ({ label }) => label |
| propsExtractor | Extract props from item (args: item, index) | Function | () => null |
| onChangeText | Selection callback (args: value, index, data) | Function | - |
|  |  |  |  |

## React-native-local-mongodb

Embedded persistent or in memory database for react-native, API is a subset of MongoDB’s (NetDB)

### 安装

Npm install react-native-local-mongodb

### API

#### Updating documents

Db.update(query,update, options, callback) will update all documents matching query according to the update rules:

* Query is the same kind of finding query you use with **find** and **findone**
* Update specified how the documents should be modified. It is either a new document or a set of modifiers(you cannot use both together, it doesn’t make sense!)
  + A new document will replace the matched docs
  + The modifiers create the fields they need to modify if the don’t exist, and you can apply them to subdocs. Available field modifiers are $set to change a field’s value, $unset to delete a field, $inc to increment a field’value and $min/$max to change field’s value, only if provider value is less/greate than current value. To work on arrays, you have $push, $pop,$addToSet, $pull, and the special $each and $slice. See example below for the syntax.
* Options is an object with two possible parameters
  + Multi(default to false) which allows the modification of several documents if set to true
  + Upsert(default ot false) if you want to insert a new document corresponding to the update rules if your query doesn’t match anything, if your update is a simple object with no modifiers, it is the inserted document. In the other case, the query is stripped from all operator recursively, and the update is applied to it.( 在另一种情况下，该查询将以递归方式从所有运算符中剥离，并将更新应用于该运算符。)
  + returnUpdateDocs(default to false, not MongoDb-compatible) if set to true and update is not an upset, will return the array of documents matched by the find query and update. Updated document will be return event if the update did not actually modify them
* callback (optional)signature: (err, numAffected, affectedDocuments, upsert).
  + For an upsert, affectedDocuments contains the inserted document and the upset flag is set to true
  + For a standard update with returnUpdatedDocs flag set to false, affecteDocument is not set.
  + For a standard update with returnUpdatedDocs flags set to true and multi to false, affectedDocuments is the update document.

# 参考资料

## 官方网站

<https://reactnative.cn/>

## 组件库

* http://docs.nativebase.io/Components.html
* <https://github.com/doyoe/react-native-stylesheet-guide>
* <https://github.com/GeekyAnts/NativeBase-KitchenSink>
* <https://reactnavigation.org/>
* https://www.npmjs.com/package/react-native-modalbox

## 开发资料

### iWan相关资料：

https://iwan.wanchain.org/

https://github.com/wanchain/iWan-js-sdk

https://wanchain.github.io/iWan-js-sdk/

https://iwan.wanchain.org/static/apidoc/docs.html

git clone YOURNAME@121.42.8.74:/srv/lanchain/lanchain-tools.git

这里有java sdk的代码

### web3j资料：

https://github.com/web3j/web3j

<http://docs.web3j.io/>

### 代码库

git clone YOURNAME@121.42.8.74:/srv/lanchain/iwan-java.git

git clone [YOURNAME@121.42.8.74:/srv/lanchain/mobilewallet.git](mailto:YOURNAME@121.42.8.74:/srv/lanchain/mobilewallet.git)

git clone [haolifeng@121.42.8.74:/srv/lanchain/mobilewallet.git](mailto:haolifeng@121.42.8.74:/srv/lanchain/mobilewallet.git)

### 图标库

<https://www.iconfont.cn/>

192.168.1.59:5901，密码@ZZm135

192.168.1.182:5901

@ZZm135642

[./node\_modules/@react-native-community/cli/build/commands/runIOS/findMatchingSimulator.js](mailto:./node_modules/@react-native-community/cli/build/commands/runIOS/findMatchingSimulator.js)

/Users/james/Data/hlf-work/mobilewallet/node\_modules/react-native/node\_modules/@react-native-community/cli/build/commands/runIOS

/usr/local/node/node-v8.12.0-darwin-x64/bin/react-native

/usr/local/node/node-v8.12.0-darwin-x64/bin/react-native bundle --entry-file index.js --platform ios --dev false --bundle-output ./ios/bundle/main.jsbundle --assets-dest ./ios/bundlels

# macOS中ios手机mobileWallet环境配置过程

## 配置nodejs

macOS是freebsd的变种，基本上操作与linux类似，是多用户的系统，为了避免用户之间干扰，用户单独配置nodejs路径，配置文件在/Users/<用户>目录下而不是linux中的/home/<用户>目录。

如下：

/Users/james/.bash\_profile

export PATH=/Users/james/Data/hlf-work/node-v10.15.3-darwin-x64/bin:$PATH

主要配置默认就会找/Users/james/Data/hlf-work/node-v10.15.3-darwin-x64/bin下的node和npm文件。

安装react-native-cli

npm install -g react-native-cli //--该命令会将react-native-cli安装到/Users/james/Data/hlf-work/node-v10.15.3-darwin-x64/bin ，如下：

/Users/james/Data/hlf-work/node-v10.15.3-darwin-x64/bin/react-native

## 下载源代码，并npm install

mkdir work1

cd work1

git clone [haolifeng@47.105.144.195:/srv/lanchain/mobilewallet.git](mailto:haolifeng@47.105.144.195:/srv/lanchain/mobilewallet.git)

cd mobilewallet

npm install

react-native link

## 运行bundle命令

创建<mobilewallet>/ios/bundle/assets目录。

mkdir -p ./ios/bundle/assets

react-native bundle --entry-file index.js --platform ios --dev false --bundle-output ./ios/bundle/main.jsbundle --assets-dest ./ios/bundle

## xcode设置

### 设置Legacy Build system

In Xcode, go to File->Project/Workspace settings.

Change the build system to Legacy Build system.

### 设置schema manager

xcode menu-> product->schema->manager-schemes.

double click on your appliaction

build tab->uncheck parallelize build

勾选react Run

react-native run-ios --simulator “”

# 坑坑不息

## Text

Text的ellipsizeMode和numberOfLines属性

|  |  |  |  |
| --- | --- | --- | --- |
| Text | ellipsizeMode | numberOfLines |  |
| ios | middle | 1或多行 | 起作用 |
| android | middle | 1或多行 | 1行器起作用，多行不起作用 |
|  |  |  |  |
|  |  |  |  |

## Gradle手动安装

在grandle下载很慢，但下载后会缓存在电脑中，供下一个项目使用。为此可以使用手动下载，然后安装使用。

缓存位置：

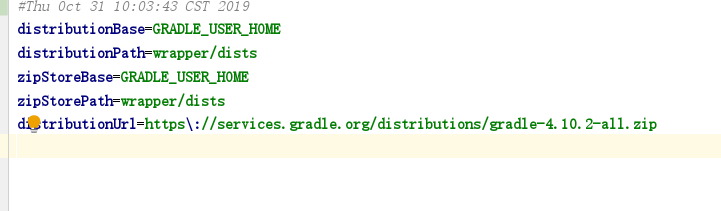
Windows: C:\Users\Administrator\.gradle\wrapper\dists

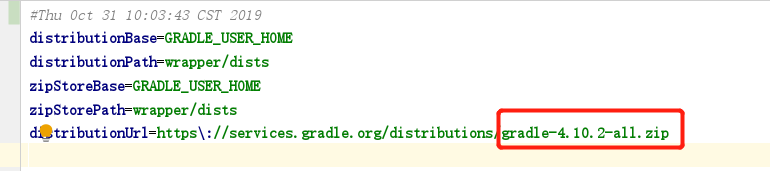


Linux在~/.gradle\wrapper目录。

在使用android studio同步时，会创建一个临时目录，把手动下载的grandle-4.10.2-all.zip放到其中就可以了。

在android项目gradle-wrapper.properties文件中distributionUrl中提到的版本与手动下载的版本修改一致：





再次点击android studio的同步按钮，就可以展开同步。