

# Vue 探索与实践

一《陪伴计划》开发总结

2017.05.17

# Vue 探索与实践

一《陪伴计划》开发总结









技术展望

## 热闹的前端



解决问题的多少



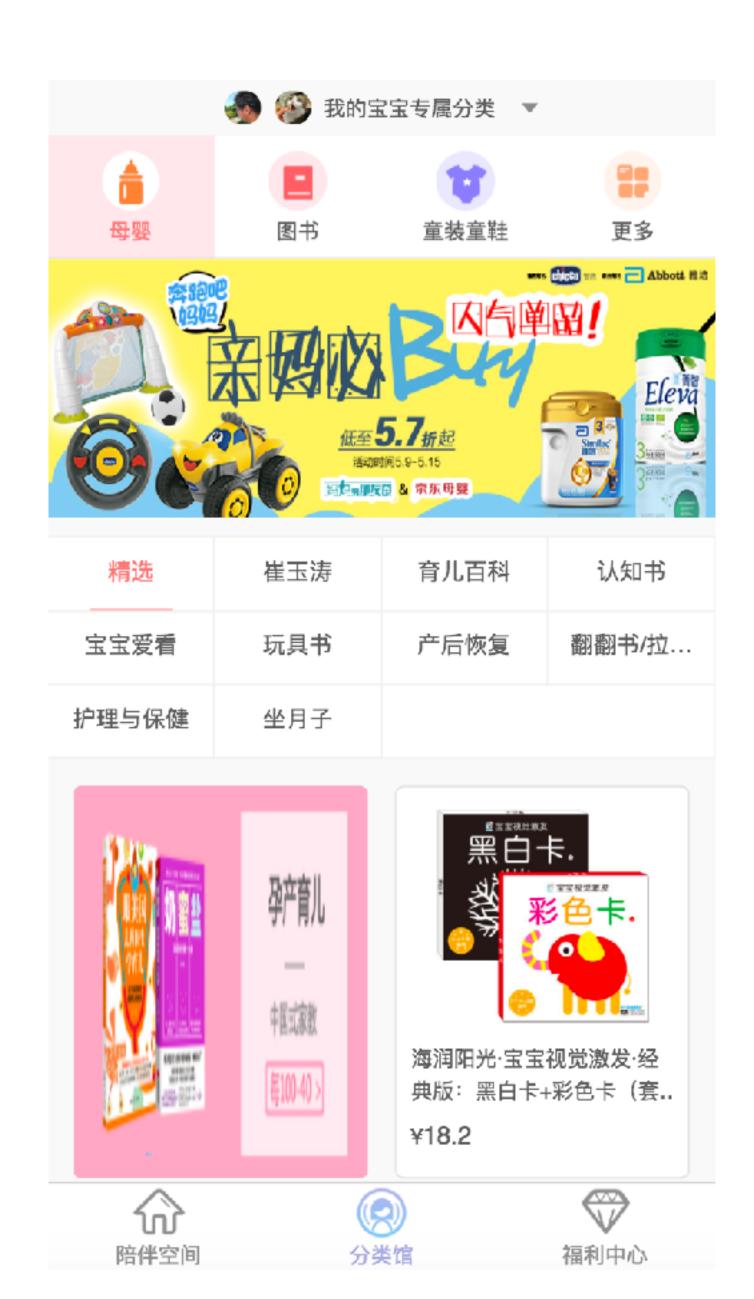


#### 福利中心

用户购满一定金额,享受每月限额福利券及

一项低价换购,还有试用等福利







#### 分类馆

几大品类,品类下按类型,根据宝宝年龄精 准推送推荐商品







●口水の 凝包

背带前抱式宝宝单凳新生儿抱...

京东价: ¥268

陪伴专享价:¥198



早教益智 实用好物 潮娃穿搭 出行神器







分类馆

福利中心



#### 陪伴空间

陪伴计划主页,根据宝宝年龄或用户选择,

精准推送特定年龄段段的精选商品和资讯

## 遇到问题



近90个数据接口

数据字段不规范、不统一、难理解

接口开发经常延期且频繁变更



各种交互及状态,且一态多用

给用户展示的是多状态共同作用的结果

用户操作异步更新页面



同时规划多版本

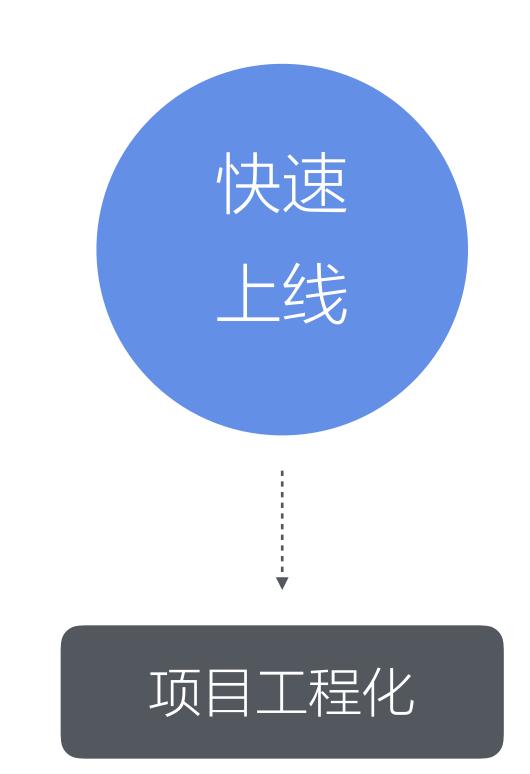
多版本并行开发

友多移动开发。—— Zepto等 / 原生js, html, css









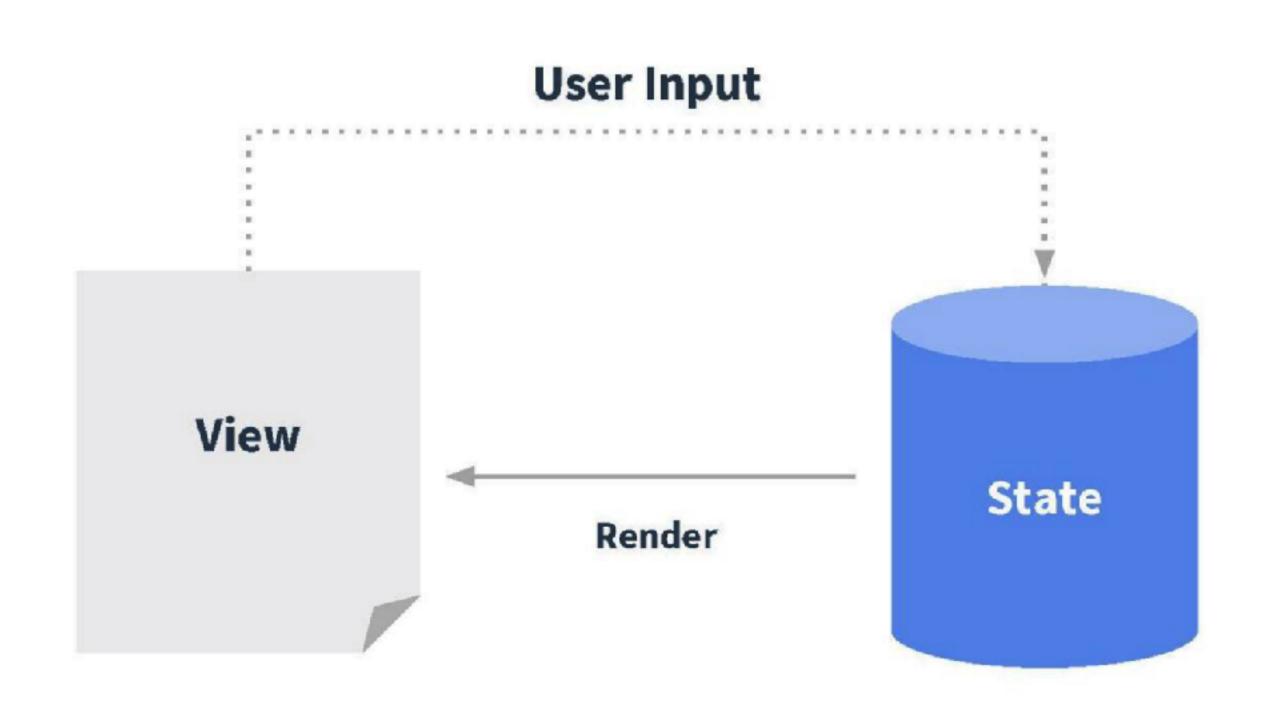


解决问题的多少

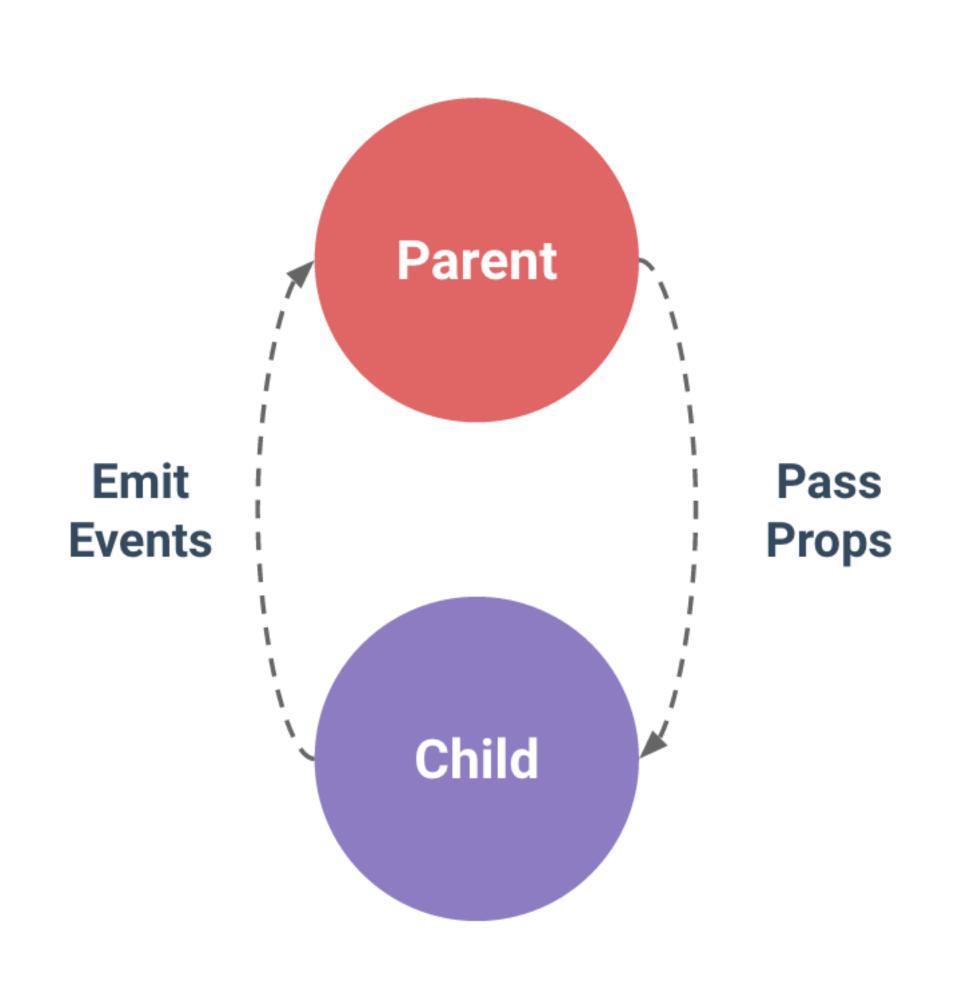












组件通信 单文件组件概念

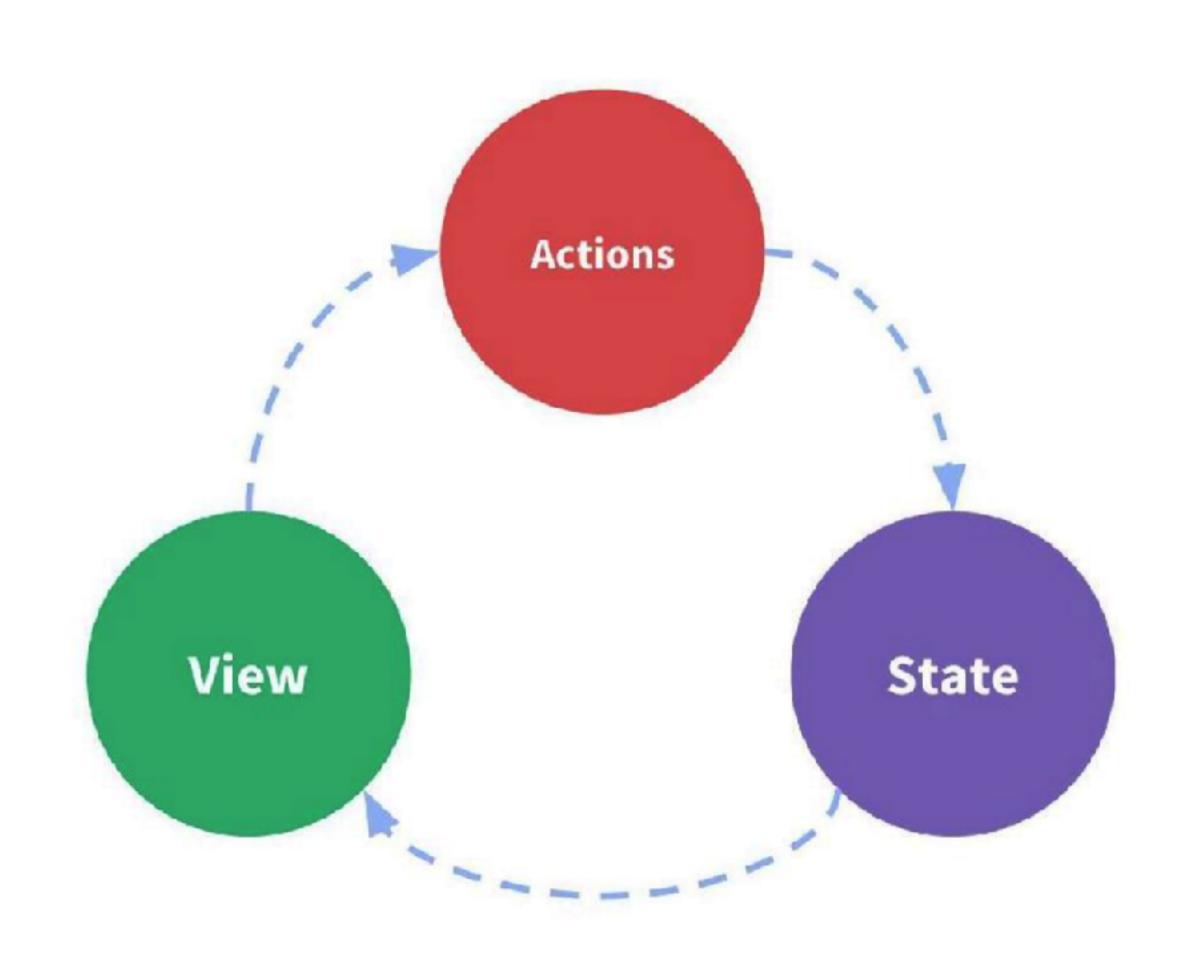


#### 客户端路由的各种问题

- 嵌套路由
- 具名路由
- 多个平级路由出口
- 复杂匹配规则
- 当前活跃链接

- 重定向/别名
- 跳转动画
- 异步数据处理
- 跳转规则限制
- 滚动条行为
- 懒加载











项目实战

# 项目实战



# 项目实战 开发过程



#### 项目实战



有开发环境及生产环境的 webpack 配置



```
resolve: {
   alias: {
     '@': resolve('src'),
     '@img': resolve(['src', 'images'])
   }
},
```

别名,由相对路径变为"绝对路径"



```
// 关闭
@mixin iconClose {
    mask-border-source: url(~@img/mask/icon_mask_close.png);
    mask-border-slice: 0 0 0 0 fill;
    mask-border-width: 0;
}
```

其中图片资源别名(@img)

不仅让路径简写,还让 mixin 可以引用图片资源



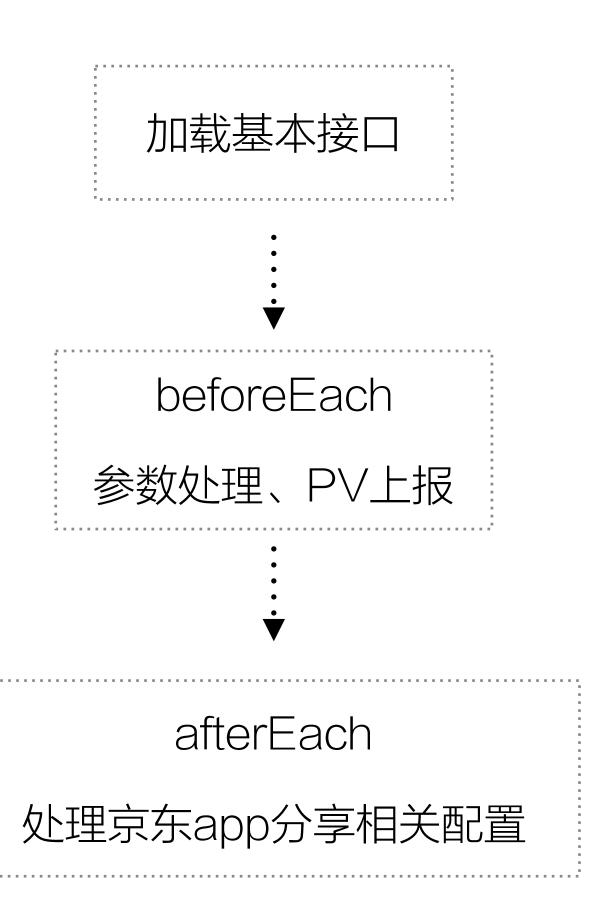
还有 ESLint 和 Babel 等



```
name: 'index', path: '/index',
meta: {title: '陪伴空间', pv: 70},
components: {default: Index2, navbar: Navbar}
},
```

# 项目实战







```
* fix ios title刷新不了的bug
const iframeLoad = (src) => {
  let iframe = document.createElement('iframe')
  iframe.style.display = 'none'
  iframe.src = src
  document.body.appendChild(iframe)
  iframe.addEventListener('load', function() {
    setTimeout(function() {
      iframe.remove()
   }, 0)
```

slot的运用

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代

#### 项目实战



```
<template>
<div v-show="isShow" class="test">
 <!-- slot 的运用 -->
 <slot></slot>
 <slot name="slot2"></slot>
 <template v-if="testProp"></template>
 <template v-else></template>
 <!-- 对于嵌套较深的组件,可以尝试用 Function-type Prop 来代替 emit -->
 <div @click="changeNickname && changeNickname('小镇')"></div>
 <div @click="close()" class="test_btn">{{btnText}}</div>
</div>
</template>
<script>
export default {
 props: {
   testProp: {
     type: [Number, String],
     required: true
   changeNickname: Function
```

这

是

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的

},

data () {

#### 项目实战

组件化

<template> <div v-show="isShow" class="test"> <!-- slot 的运用 --> <slot></slot> <slot name="slot2"></slot> <template v-if="testProp"></template> <template v-else></template> <!-- 对于嵌套较深的组件,可以尝试用 Function-type Prop 来代替 emit --> <div @click="changeNickname && changeNickname('小镇')"></div> <div @click="close()" class="test\_btn">{{btnText}}</div> </div> </template> <script> export default { props: { testProp: { type: [Number, String], required: true

changeNickname: Function

Function-type Prop

Props传参

### 项目实战

#### 开发过程

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码

methods: {

close () {

组件化

```
<qiv v-snow="is>now" class="test">
 <!-- slot 的运用 -->
 <slot></slot>
 <slot name="slot2"></slot>
 <template v-if="testProp"></template>
 <template v-else></template>
 <!-- 对于嵌套较深的组件,可以尝试用 Function-type Prop 来代替 emit -->
 <div @click="changeNickname && changeNickname('小镇')"></div>
 <div @click="close()" class="test_btn">{{btnText}}</div>
</div>
</template>
<script>
export default {
 props: {
   testProp: {
     type: [Number, String],
     required: true
   },
   changeNickname: Function
 },
 data () {
   return {
     isShow: false,
     btnText: '',
     closeFn: null
```

## 项目实战

#### 开发过程

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代

组件化

```
changeNickname: Function
 },
 data () {
   return {
     isShow: false,
     btnText: '',
     closeFn: null
 methods: {
   close () {
     this.isShow = false
     this.closeFn && this.closeFn()
   // 除了 props 传参,函数传参也是一种方式,有时比 props 更好用
   showPop (btnText = '', closeFn = null) {
     this.isShow = true
     this.btnText = btnText
     this.closeFn = closeFn
</script>
```

Props替代方案



几乎每个组件都有埋点 相当多的全局的多页共用的数据

#### 项目实战

#### 开发过程

mixins

```
return {
 // isVip: 是否VIP
 // points: VIP积分(新用尸这里即将提供的积分也为0)
 // isVipNew: 是否新用户(新用户的VIP积分为空而不是0)
 // isRealName: 是否实名
 // region: 用户默认收货地址-省市名称
 // regionId: 用户默认收货地址-四级地址
 ...extUserInfo,
 // 是否IOS
 isIOS: /iphone|ipad|ipod/i.test(navigator.userAgent),
 // 宝贝档案
 profiles: profiles,
 // 猜宝贝档案
 guessChild: guess,
 // 档案来源
 // 是否大于六岁
 isBeyondSeven,
 // 月龄 = xx,xx
 orMoonsAge: orMoonsAge,
 // 用于 埋点 = x_x,如档案空则为 n_n
 pingMoonsAge: pingMoonsAge,
 // 用于微信手Q埋点的LinkID
 pingLinkID: pingLinkID,
 // 用于埋点, VIP属性_月龄参数
 pingPreParam: `${extUserInfo.isVip ? 1 : 0}_${pingMoonsAge}`
```

登陆态

用户信息

档案信息

埋点用的参数



```
directives
 — vue-backtop.js ———
                              回到顶部
├── vue-lazy-img.js —
                              图片懒加载
  — vue-lazy.js -
                              模块懒加载
  – vue-manual-img.js —
                              运营图加载
  — vue-mfor.js —
                              多数组交替遍历
  – vue-price.js —
                              价格获取
  – vue-sticky.js —
                              吸顶
  — vue-sticky2.js —
                              吸顶
--- vue-timer.js
                              倒计时
filters
   index.js
```



链接统一管理

const DOMAIN = '//mup.jd.com' const HOST = `\${DOMAIN}/dobby` const NIGHT = `\${DOMAIN}/dobby2` const CHILD = `\${DOMAIN}/child` // 用户扩展信息 export const USER\_EXT\_INFO = `\${HOST}/member\_extInfo` // 福利券信息 export const VIP\_COUPON\_MAIN = `\${HOST}/vip\_coupon\_main` // 福利换购信息 export const VIP\_PRIVILEGE = `\${NIGHT}/vip\_privilege` 福利换购商品领取 id export const VIP\_PRIVILEGE\_GET = `\${HOST}/apply\_vip\_privilege` // 专享价分类 bizParameterMap[orMoonsAge] export const EXCLUSIVE\_CLASS = `\${HOST}/accompany\_epa\_class` export const EXCLUSIVE\_LIST = `\${HOST}/accompany\_epa\_product` // VIP优惠券列表 export const VIP\_COUPON\_INFO = `\${HOST}/accompanyCouponInfo`



链接统一管理 数据字段统一管理

#### 商品字段常量示例

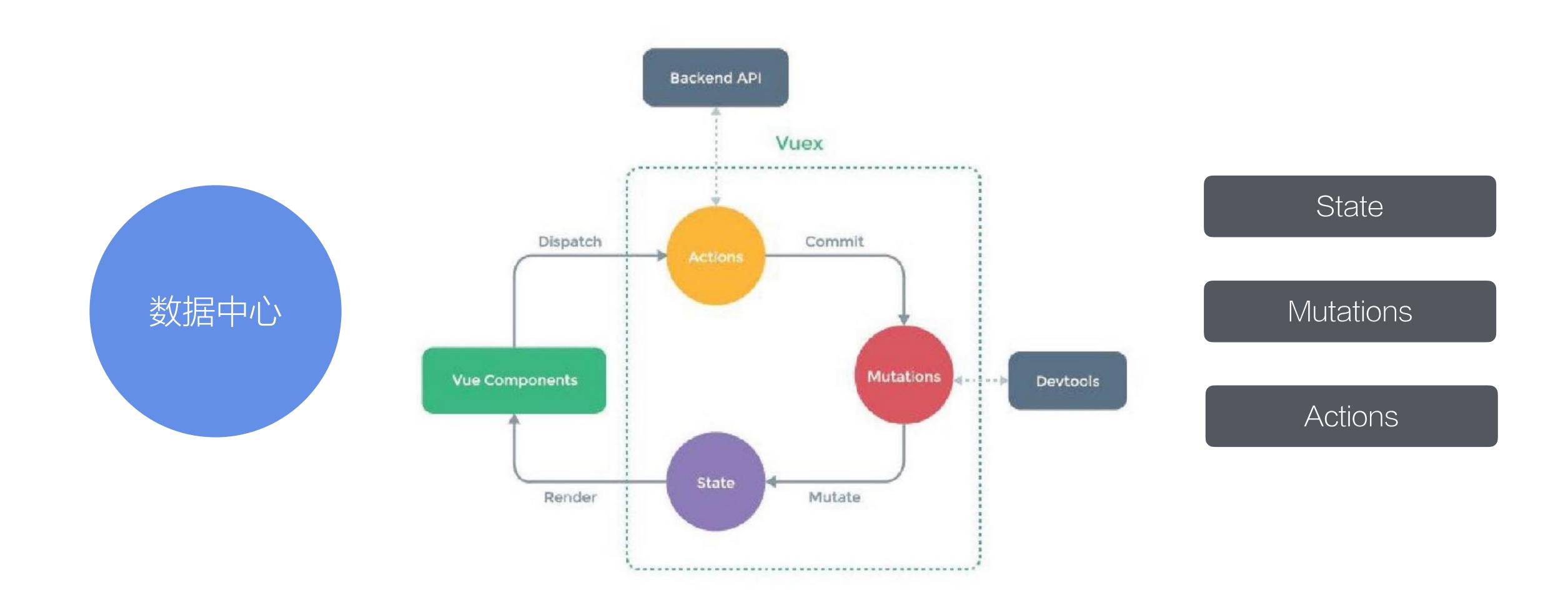
```
// 基本
export const ID = 'id'
export const SKU = 'sku'
export const LINK = 'link'
export const NAME = 'name'
export const IMAGE = 'image'
// 字段一般为curPrice
export const JD_PRICE = 'jdPrice'
// 字段一般为refPrice
export const PRICE = 'price'
```



链接统一管理 数据字段统一管理 其他常量管理

```
// 通用三态常量
export const COMMON_STATE_INIT = -1
export const COMMON_STATE_SUCC = 0
export const COMMON_STATE_FAIL = 1
// 购物车状态
export const ADD_CART_INIT = -1
export const ADD_CART_SUCC = 0
export const ADD_CART_FAIL = 1
// 礼包类型
export const GIFTS_BIG = 'giftsBig' // 陪伴大礼包
export const GIFTS_NEW = 'giftsNew' // 新生礼包
export const GIFTS_FULL_MONTH = 'giftsFullMonth' // 满月礼包
export const GIFTS_HUNDRED = 'giftsHundred' // 百日礼包
export const GIFTS_SIX_MONTHS = 'giftsSixMonths' // 半岁礼包
export const GIFTS_AGES = 'giftsAges' // 周岁礼包
export const GIFTS_MONTHS = 'giftsMonths' // 月龄礼包
export const GIFTS_TOPICS = 'giftsTopics' // 主题礼包
export const GIFTS_BOOK = 'giftsBook' // 图书新会员礼包
```

#### 开发过程



```
computed: {
  selectedMoonsAge () {
    let mg = Constants.AGE_GROUPS[this.selectedAgesIdx - 1]
    return mg ? mg.orMoonsAge : this.orMoonsAge
  },
  ...mapGetters({
    pickTop: 'pickTop',
    guideClass: 'guideClass',
    guideList: 'guideList',
    guessIndex: 'guessIndex',
    guessIndexEnd: 'guessIndexEnd'
  })
methods: {
  ...mapActions([
    'getPickTop',
    'getGuideClass',
    'getGuideList',
    'getGuessIndex'
  ]),
```

mapGetters mapActions

开发过程

Actions

Mutations

• State getters

```
import * as URL from '@/config/URL'
import * as Constants from '@/config/Constants'
 import * as Commodity from '@/config/Commodity'
import Utils from '@/utils'
import fetch from '@/libs/fetch'
import debug from '@/libs/debug'
import Report from 'o2-analysis'
const PICK_LIST = 'PICK_LIST' -
                                                                                               mutation 名称
const state = {
  pickList: [], -
                                                                                               state
  pickListEnd: false
const getters = {
  pickList: state => state.pickList _____
                                                                                               getter
const mutations = {
  [PICK_LIST] (state, {list, added}) {
    let format = _getPicks(list || [])
    state.pickListEnd = format.length === 0
    if (added) {
      state.pickList = state.pickList.concat(format)
    } else {
```

定义action

#### 项目实战

actions Actions

Mutations

```
State
getters
```

```
if (added) {
     state.pickList = state.pickList.concat(format)
   } else {
     state.pickList = format
const actions = {
 getPickList ({commit}, {orMoonsAge = '', page, added}) {
   fetch({
     url: URL.PICK_LIST
   }, {
     params: {
       orMoonsAge,
       common_page_index: page,
       common_page_size: 10
   }).then((ret) => {
      const list = ret && ret.accompany_fine_goods_list | []
      commit(PICK_LIST, {
       list,
       added
   }, (error) => {
     debug(error)
function _getPickItem (item) {
 let now = Date.now()
```

let start = Utils.getDateTime(item.startTime).getTime()

commit

#### 项目实战

```
actions

Actions

Mutations
```

```
setters State
```

function \_getPickItem (item) {

let start = Utils.getDateTime(item.startTime).getTime()

let now = Date.now()

```
if (added) {
     state.pickList = state.pickList.concat(format)
   } else {
     state.pickList = format
const actions = {
 getPickList ({commit}, {orMoonsAge = '', page, added}) {
   fetch({
     url: URL.PICK_LIST
   }, {
     params: {
       orMoonsAge,
       common_page_index: page,
       common_page_size: 10
   }).then((ret) => {
     const list = ret && ret.accompany_fine_goods_list | []
     commit(PICK_LIST, {
       list,
       added
    }, (error) => {
     debug(error)
```

```
Backend API
actions
           Actions
          Mutations
            State
getters
```

```
port debug irom w/ 1103/ debug
import Report from 'o2-analysis'
const PICK_LIST = 'PICK_LIST'
const state = {
 pickList: [],
  pickListEnd: false
const getters = {
  pickList: state => state.pickList
const mutations = {
  [PICK_LIST] (state, {list, added}) {
   let format = _getPicks(list || [])
   state.pickListEnd = format.length === 0
   if (added) {
     state.pickList = state.pickList.concat(format)
   } else {
     state.pickList = format
const actions = {
  getPickList ({commit}, {orMoonsAge = '', page, added}) {
   fetch({
     url: URL.PICK_LIST
   }, {
     params: {
       orMoonsAge.
```

mutation

预处理数据

## 项目实战

```
Backend API
actions
           Actions
          Mutations
            State
getters
```

```
Joi L debug II om w/ 1103/ debug
import Report from 'o2-analysis'
const PICK_LIST = 'PICK_LIST'
const state = {
 pickList: [],
  pickListEnd: false
const getters = {
  pickList: state => state.pickList
const mutations = {
  [PICK_LIST] (state, {list, added}) {
    let format = _getPicks(list | [])
    state.pickListEnd = format.length === 0
   if (added) {
      state.pickList = state.pickList.concat(format)
   } else {
      state.pickList = format
const actions = {
  getPickList ({commit}, {orMoonsAge = '', page, added}) {
   fetch({
     url: URL.PICK_LIST
    }, {
      params: {
       orMoonsAge.
```

```
Backend API
actions
           Actions
          Mutations
             State
getters
```

state,

```
added
   }, (error) => {
      debug(error)
    })
function _getPickItem (item) {
  let now = Date.now()
  let start = Utils.getDateTime(item.startTime).getTime()
  let end = Utils.getDateTime(item.endTime).getTime()
  let validity = start < now && end > now
  return
   [Commodity.ID]: item.id,
    [Commodity.SKU]: item.sku,
    [Commodity.NAME]: item.name,
    [Commodity.IMAGE]: (item.skuImgUrl | '').split(',').filter((item) => item);
    // [Commodity.IMAGE]: _getImageUrl(item.skuImgUrl),
    [Commodity.JD_PRICE]: item.curPrice,
    [Commodity.PRICE]: item.refPrice,
    [Commodity.LINK]: Utils.getDetailUrl(item.sku),
    [Commodity.REMARK]: item.bizParam,
    ['validity']: validity
function _getPicks (gds) {
  return gds.map((item) => {
    return _getPickItem(item)
export default {
```

预如于理数排

```
Backend API
actions
           Actions
          Mutations
            State
getters
```

```
Tillbort Kebort Troll 02-analysis
const PICK_LIST = 'PICK_LIST'
const state = {
 pickList: [],
 pickListEnd: false
const getters = {
 pickList: state => state.pickList
const mutations = {
  [PICK_LIST] (state, {list, added}) {
   let format = _getPicks(list || [])
   state.pickListEnd = format.length === 0
   if (added) {
     state.pickList = state.pickList.concat(format)
   } else {
     state.pickList = format
const actions = {
  getPickList ({commit}, {orMoonsAge = '', page, added}) {
   fetch({
     url: URL.PICK_LIST
   }, {
     params: {
       orMoonsAge,
        common nage index: nage
```



```
import UA from '@/libs/ua'
import * as uaTypes from '@/config/ua-types'
import App from './app'
import Mobile from './mobile'
import Wechat from './wechat'
import QQ from './qq'
let configs = {
  [uaTypes.APP]: App,
  [uaTypes.WECHAT]: Wechat,
  [uaTypes.QQ]: QQ,
  [uaTypes.MOBILE]: Mobile
export default configs[UA.type]
```

兼容App、微信、手Q和浏览器

包括 购物车相关、商详页链接、优惠券链接、搜索链接 等环境差异的方法



减少重复请求 …… 在变量中按参数暂存数据

滚动条行为 …… 在store中存储每页离开时的滚动条位置

. . . . . .

高效协作

组件化

全局组件

页面组件

模块化

业务分块

逻辑分块

命名规范

命名规范

字段统一

Git工作流

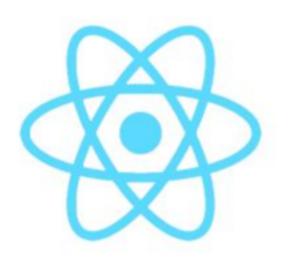
commit 规范

分支管理

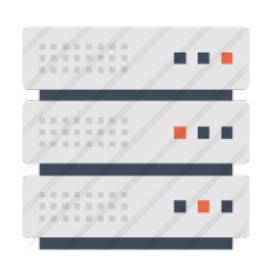




## 技术展望



JD React Native



Server Side Render

# THANKS FOR YOUR WATCHING

