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- **1□uni-app □□□□□□□□□□**
  - □□□□□uni-app □□□□□□ Vue SFC □□□□□□□H5 □ Web runtime□Vue2/Vue3□□□□□□□ DSL □wxml/axml/swan □□□App □□ WebView □□□Vue□□□□□□nvue/UVue□□□□□□□ `uni.*` □□□ □ API□□□□□□□□□□□□□□□
- **2□ `nvue/UVue` □□□ `vue` □□□□□□□**
  - □□□□□nvue/UVue □□□□□□□□/□□□□□□□ CSS/DOM □□□□□□□□□□□□□□□□□□□ `$refs` DOM □ □□□□□□□□□□ nvue/UVue□□/□□□□□ vue□□□□□□□□□
- **3□ `pages.json` □ `manifest.json` □□□□**
  - □□□□□ `pages.json` □□□□□□□/□□□□□□□ `tabBar` □□□/□□□□ `manifest.json` □□□□□□□□□□□ □□App □□□□□□Push□URL scheme□iOS/Android □□□□□Splash □□□
- **4□□□□□□□□□□□□**
  - □□□□□ `#ifdef` / `#ifndef` □□□/□□/□□□□□□□□□□□□□□□□□□□□□□□□□□ API□□□□□□□□□□□□□□□□ □□□□□□□□□□□
- **5□□□□□□□□□□ `rpx` / `upx` / `vw`**
  - □□□□□□□□□□□ `rpx` □App/H5 □□ `upx` □ `vw` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
- **6□□□□□□□□□□□□□□**
  - □□□□□□□ `uni.request` □□□ header □□□□□□□□□401 □□ Token□□□□ → □□□□□□□□□□□□□□□ □□H5 □ CORS□App □□□□□□□□□□□□
- **7□□□□□□□□□□ `eventChannel` □□□□**
  - □□□□□ `navigateTo` □□□□□ `redirectTo` □□□□□□□ `reLaunch` □□□□□ `switchTab` □□□ tab□□ □□□□□□□ query + `eventChannel` □□□□□ EventBus□□□□□
- **8□□□□□□□□Props/□□/Provide-Inject/□□□□□Pinia/Vuex□**
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- **9□□□□□□□□H5 vs App□**
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- **11□□□□□□□□uni-module □□□□□□□□**

- [illegible]/[illegible] uni-module [illegible] SDK[illegible] `uni.` [illegible] iOS/Android [illegible]
- **12[illegible]**
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- **13[illegible]App WebView [illegible]JSBridge[illegible]**
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- **14[illegible] `easycom` [illegible]**
  - [illegible]
- **15[illegible]**
  - [illegible] `onLaunch` / `onShow` / `onHide` [illegible] `onShow` [illegible]
- **16[illegible]**
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- **18[illegible]**
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- **19[illegible]/[illegible]**
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- **20[illegible]uniCloud [illegible]**
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- **21[illegible]**
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- **22[illegible]L10N/I18N[illegible]**
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- **23[illegible]/[illegible]**
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- **24[illegible]**

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- **25[illegible]PWA [illegible] H5 [illegible]**
    - [illegible]H5 [illegible] Service Worker [illegible]/APP [illegible] SW [illegible]
- **26[illegible]App [illegible] WebView [illegible]**
    - [illegible]payload[illegible]/[illegible]
- **27[illegible]CI/CD[illegible]**
    - [illegible] matrix[illegible] node_modules [illegible]/[illegible]/[illegible]sourcemap[illegible]license[illegible]
- **28[illegible]Sourcemap [illegible]**
    - [illegible]H5/sourcemap [illegible] sourcemap [illegible]App [illegible] release [illegible]
- **29[illegible]**
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- **31[illegible]**
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- **32[illegible]**
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- **33[illegible]/Markdown [illegible]**
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- **34[illegible]/[illegible]**
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- **35[illegible]WebSocket/[illegible]**
    - [illegible]/[illegible]
- **36[illegible]**
    - [illegible]/[illegible]App [illegible]LRU/[illegible]/[illegible]
- **37[illegible]**
    - [illegible] SDK[illegible]
- **38[illegible] 60fps [illegible]**
    - [illegible]CSS [illegible] layout thrash[illegible] `requestAnimationFrame` [illegible]nvue [illegible]
- **39[illegible]**

    - [illegible]

- **40[illegible]CSRF[illegible]XSS[illegible]**
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- **`scroll-view` [illegible] `scrolltolower`**
    - [illegible] `lower-threshold` [illegible] `overflow: hidden` [illegible] App [illegible] nvue [illegible] list [illegible]
- **H5 [illegible]/[illegible]**
    - [illegible] `image` [illegible] `mode="widthFix|heightFix"` [illegible] `srcset` [illegible] CDN [illegible] CSS [illegible]
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- **App [illegible]**
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- **`navigateTo` [illegible] `tabBar` [illegible]**
    - [illegible] `switchTab` [illegible]URL [illegible] query[illegible]
- **[illegible]**
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- **`this.$refs` [illegible] nvue [illegible]**
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- **[illegible]App/H5[illegible]**
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- **[illegible]/[illegible]**
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    - [illegible]App [illegible] nvue [illegible] list[illegible]H5 [illegible] `lazy-load` [illegible] setData[illegible]
- **Base64 [illegible]**
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- **WebView [illegible]App[illegible]**
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- **[illegible]H5/[illegible]**
    - [illegible] `autoplay` [illegible]

- **`easycom` □□□**
  - □□□□□□□□□□□ `pages.json` □□ `easycom.custom` □□□□□□□□□□□□
- **□□□□□ 404□H5□**
  - □□□□□ `publicPath` □□□□□□□□□□□□□□□□□Nginx □□ SPA □□□ `index.html` □
- **□□□□□□□□□□**
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- **iOS □□/□□□□□□□□□□**
  - □□□□ `manifest.json` □ iOS □□□ `NSCameraUsageDescription` □□□□
- **□□/□□ API □ H5 □□□**
  - □□□□□□□□□□□□□□□□□□□□□□□□□□ App/□□□□□□
- **□□□□□□□□**
  - □□□ `onUnload` □□□□□□□□□□□□□□□□□□□□□□□
- **`uni.chooseImage` □□□□□□□□□**
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- **A□□□□□□□□□□□ Token □□□□□□□**
  - □□□401 □□
- **B□□□□□□□□□□□□□**
  - □□□ `image` □□ `lazy-load` □ `@error` □□□□H5 □□□ `IntersectionObserver` □CDN □□□ □□
- **C□□□□□□□□□□/□□□□□□□**
  - □□□□□ `uni.setStorage` □□□□□□□□□□□□□□□□□□□□□□□□
- **D□□□□□□□□□□**
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- **E□□□□□□□**
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```
// □□□□□ + □□□□□□□□
let isRefreshing = false;
let waitQueue = [];

function doRequest(config) {
  return new Promise((resolve, reject) => {
    uni.request({
      ...config,
      timeout: 10000,
      header: { Authorization: getToken(), ...(config.header || {}) },
      success: async (res) => {
        if (res.statusCode === 401) {
          if (!isRefreshing) {
            isRefreshing = true;
            try {
              await refreshToken();
              waitQueue.forEach((fn) => fn());
              waitQueue = [];
            } finally {
              isRefreshing = false;
            }
          }
          return waitQueue.push(() => resolve(doRequest(config)));
        }
        if (res.statusCode === 200 && res.data && res.data.code === 0) {
          return resolve(res.data.data);
        }
        reject(normalizeError(res));
      },
      fail: (err) => reject(normalizeError(err)),
    });
  });
}
```

```
// pages.json □□□□□□□□□
{
  "pages": [{ "path": "pages/index/index" }],
  "subPackages": [
    { "root": "pkg-user", "pages": [{ "path": "pages/profile/index" }] }
  ],
  "preloadRule": {
    "pages/index/index": { "packages": ["pkg-user"] }
  }
}
```

```
// Pinia □□□□□Vue3 □□□
import { defineStore } from 'pinia';
export const useAuthStore = defineStore('auth', {
  state: () => ({ token: '', user: null }),
  actions: {
    setToken(t) { this.token = t; },
    async fetchUser() { this.user = await doRequest({ url: '/me' }); },
  },
});
```

```
<!-- □□□□□□□□□□□ -->
<template>
  <image :src="loaded ? src : placeholder" lazy-load @error="onErr" @load="onLoad"
/>
</template>
<script>
export default {
  props: {
    src: String,
    placeholder: { type: String, default: '/static/placeholder.png' },
  },
  data: () => ({ loaded: false }),
  methods: {
    onLoad() { this.loaded = true; },
    onErr() { this.loaded = true; },
  },
};
<\/script>
```

```
// □□□ eventChannel □□□□
// A □□
uni.navigateTo({
  url: '/pages/detail/index?id=123',
  success(res) { res.eventChannel.emit('open', { from: 'A' }); },
});
// B □□
onLoad(() => {
  const ec = this.getOpenerEventChannel();
  ec.on('open', (data) => { /* ... */ });
});
```

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2. □□□□□ nvue/UVue□□□□□□□□□
3. `pages.json` □ `manifest.json` □□□□□□□□□□□□□□□
4. □□□□□□□□□□□□□□□□□□□
5. □□□□□□□□□□□□□□□□□
6. □□□□□□□□□□□□□□□□□□Token □□□□□
7. □□□□□□□□□□ `eventChannel` □□□□□□□
8. □□□□□□□□Props/□□/Provide-Inject/Pinia □□□
9. □□□□□□□ H5 □ App □□□□□
10. □□□□□□/□□□□□□□□□□□□□□□□
11. □□□□□□□□□/□□□/□□/APP/H5□□□□
12. App □□□□□□□□□ checklist□
13. WebView □□□□□□□□□□□□□
14. `easycom` □□□□□□□□□□□□
15. □□□□□□/H5/APP □□□□□□□□□□□□
16. □□□□□□□□□□□□□□□□□

17. [illegible]
18. [illegible]/[illegible]
19. [illegible]/[illegible] uni-app [illegible]
20. uniCloud [illegible]

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  - 75-89[illegible]
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