

# iOS 系统开发 - 扩展钱包功能一比一迁移清单

审查基准: 扩展钱包 v0.93.77 全部源码 (src/ui/views/, src/ui/component/, src/background/service/)

iOS 端现状 (仓库内): 已存在原生 SwiftUI 钱包实现 (mobile/ios/RabbyMobile/ , 约 72 个 Swift 文件) , 包含 Keyring/链/RPC/资产/交易/Swap/Bridge/NFT/DApp Browser/设置 等模块骨架 ; 但仍有若干 P0 级别 “派生/签名/WalletConnect/费率” 等问题需修复后才能对齐扩展行为。

补充说明: apps/web/src/pages/LandingPage.tsx、

apps/web/src/pages/MultiChainWalletPage.tsx 为 Web 营销页 , 不代表 iOS 端能力。

## 0、仓库内 iOS 实现现状 (以 mobile/ios/ 为准 )

### 0.1 已有目录

- iOS 入口 : mobile/ios/RabbyMobile/RabbyMobileApp.swift
- 核心能力 : mobile/ios/RabbyMobile/Core/
- UI : mobile/ios/RabbyMobile/Views/
- 工具 : mobile/ios/RabbyMobile/Utils/

### 0.2 已实现 (可复用 , 不需要从零 )

- [x] 账户与密钥 : mobile/ios/RabbyMobile/Core/KeyringManager.swift +  
mobile/ios/RabbyMobile/Core/BIP39.swift
- [x] 安全存储/解锁 : mobile/ios/RabbyMobile/Core/StorageManager.swift +  
mobile/ios/RabbyMobile/Core/BiometricAuthManager.swift +  
mobile/ios/RabbyMobile/Core/AutoLockManager.swift
- [x] 链与 RPC : mobile/ios/RabbyMobile/Core/NetworkManager.swift +  
mobile/ios/RabbyMobile/Core/CustomRPCManager.swift +  
mobile/ios/RabbyMobile/Core/SyncChainManager.swift
- [x] 资产首页 (含 Gas/链分布/曲线/代币/NFT/DeFi 仓位) :  
mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
- [x] 交易管理与历史 : mobile/ios/RabbyMobile/Core/TransactionManager.swift +  
mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift
- [x] Swap/NFT/Bridge/DAppBrowser/Settings 页面骨架 :  
mobile/ios/RabbyMobile/Views/Swap/SwapView.swift 等

### 0.3 P0 必须修复 (影响 “可用性/与扩展一致性/资产与签名正确性” )

- [ ] BIP44 子私钥派生算法不正确 (当前用 XOR 占位) - mobile/ios/RabbyMobile/Core/BIP44.swift
- [ ] 交易签名 v 值未按 EIP-155 / typed-tx 规则处理 (当前 27/28) -  
mobile/ios/RabbyMobile/Utils/Secp256k1Helper.swift +  
mobile/ios/RabbyMobile/Core/EthereumUtils.swift
- [ ] EIP-712 TypedData 编码未实现 ( signTypedData 会报 notImplemented ) -  
mobile/ios/RabbyMobile/Core/EthereumUtils.swift
- [ ] WalletConnect v2 配对/连接未实现 ( pair/connect notImplemented ) -  
mobile/ios/RabbyMobile/Core/WalletConnectManager.swift

- [ ] EIP-1559 fee 计算错误 ( baseFee 取值不对 ) - mobile/ios/RabbyMobile/Core/TransactionManager.swift
- [ ] DAppBrowser personal\_sign / typedData 请求处理缺失 - mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift
- [ ] Keystore(JSON) 导入未实现 - mobile/ios/RabbyMobile/Core/KeyringManager.swift
- [ ] 相机扫码 ( WalletConnect URI/地址 ) 未实现 ( UI 有入口但无 scanner ) - mobile/ios/RabbyMobile/Views/More/GasAccountView.swift

## 0.4 资源/图标缺口 ( 需要补齐的资产清单 )

- [ ] i18n 翻译 JSON 未打包 ( I18nManager 从 bundle locales/\*.json 读取 , 但目录缺失 ) - mobile/ios/RabbyMobile/Core/RabbyPointsManager.swift
- [ ] 字体文件缺失 ( Info.plist 声明了 Lato/Roboto , 但仓库未提供 ttf ) - mobile/ios/RabbyMobile/Info.plist
- [ ] Images.xcassets 仅有 AppIcon , 缺少品牌 Logo、Launch 视觉、业务图标 ( 若不完全依赖 SF Symbols ) - mobile/ios/RabbyMobile/Images.xcassets
- [ ] LaunchScreen 视觉 ( 品牌 Logo/ 背景 ) - mobile/ios/RabbyMobile/LaunchScreen.storyboard
- [ ] 硬件钱包品牌图/引导图 ( Ledger/Trezor/OneKey/Keystone/ImKey 等 ) - 建议复用 \_raw/images/\* 并导入 mobile/ios/RabbyMobile/Images.xcassets
- [ ] 空状态插图 ( No data/No tx/No site 等 ) - 建议复用 \_raw/images/nodata-\* .png
- [ ] 链图标 ( ETH/BSC/Polygon/Arbitrum/Optimism/Base/... ) - 可复用 required-chain-icons/ 或 OpenAPI 的 logo\_url
- [ ] Token 图标离线兜底 ( 当前 CryptoIconProvider 使用线上 raw GitHub ) - mobile/ios/RabbyMobile/Utils/CryptoIconProvider.swift
- [ ] iPad/Universal AppIcon slot ( 如需 iPad 支持 ) - mobile/ios/RabbyMobile/Images.xcassets/AppIcon.appiconset/Contents.json

### 0.4.1 i18n locales ( 需要打包进 iOS bundle 的 JSON )

iOS 当前读取路径 : bundle locales/<normalized>.json ( zh-CN zh\_CN.json ) , 见 mobile/ios/RabbyMobile/Core/RabbyPointsManager.swift ( I18nManager ) 。

- [ ] mobile/ios/RabbyMobile/locales/en.json
- [ ] mobile/ios/RabbyMobile/locales/zh\_CN.json
- [ ] mobile/ios/RabbyMobile/locales/zh\_HK.json
- [ ] mobile/ios/RabbyMobile/locales/ja.json
- [ ] mobile/ios/RabbyMobile/locales/ko.json
- [ ] mobile/ios/RabbyMobile/locales/de.json
- [ ] mobile/ios/RabbyMobile/locales/es.json
- [ ] mobile/ios/RabbyMobile/locales/fr\_FR.json
- [ ] mobile/ios/RabbyMobile/locales/pt\_BR.json
- [ ] mobile/ios/RabbyMobile/locales/ru.json
- [ ] mobile/ios/RabbyMobile/locales/tr.json
- [ ] mobile/ios/RabbyMobile/locales/vi.json
- [ ] mobile/ios/RabbyMobile/locales/id.json

建议来源与转换 :

- 源文件 : \_raw/locales/<locale>/messages.json ( Chrome extension 结构 : { key: { message: string } } )
- 目标格式 : { "key": "message" } ( 扁平 key-value )
- [ ] Xcode : 确保 locales/ 目录被加入 Build Phases Copy Bundle Resources ( 并保持目录名为 locales )

#### 0.4.2 字体 ( 如继续使用 Lato/Roboto )

当前 Info.plist 声明 : Lato-Bold.ttf/Lato-Regular.ttf/Roboto-\* .ttf , 但仓库未提供 ttf ( 只有 \_raw/fonts/\*.woff2 ) 。

- [ ] mobile/ios/RabbyMobile/Resources/Fonts/Lato-Bold.ttf
- [ ] mobile/ios/RabbyMobile/Resources/Fonts/Lato-Regular.ttf
- [ ] mobile/ios/RabbyMobile/Resources/Fonts/Roboto-Bold.ttf
- [ ] mobile/ios/RabbyMobile/Resources/Fonts/Roboto-Medium.ttf
- [ ] mobile/ios/RabbyMobile/Resources/Fonts/Roboto-Regular.ttf

( 或 ) 改用系统字体并移除 UIAppFonts 配置。

- [ ] Xcode : 确保字体文件加入 Build Phases Copy Bundle Resources , 且文件名与 Info.plist 完全一致

#### 0.4.3 Images.xcassets ( 建议新增的图片/图标清单 )

目标 : 补齐品牌/启动页/空状态/硬件钱包引导/链图标等 ; Token 图标建议 “ 线上 + 缓存 + 少量离线兜底 ” , 不要全量打包。

资产名 ( 建议 )	用途	推荐来源 ( 仓库已有 )
Brand/RabbyLogo	App 品牌 Logo ( 深色 )	_raw/images/logo-rabby.svg ( 建议转 PDF/ 单色 SVG )
Brand/RabbyLogoWhite	App 品牌 Logo ( 浅色 )	_raw/images/logo-white.svg
Brand/RabbySiteLogo	站点/营销 Logo ( PNG 备选 )	_raw/images/rabby-site-logo.png
Launch/LaunchLogo	启动页 Logo	复用 Brand/RabbyLogo ( LaunchScreen.storyboard 可替换 label )
Onboarding/Welcome	欢迎页插图	_raw/images/welcome-image.svg
Onboarding/WelcomeStep1	新手引导图 1	_raw/images/welcome-step-1.png
Onboarding/WelcomeStep2	新手引导图 2	_raw/images/welcome-step-2.png
Empty/NoDataTx	无交易空状态	_raw/images/nodata-tx.png
Empty/NoDataSite	无站点空状态	_raw/images/nodata-site.png
Hardware/LedgerPlug	Ledger 连接引导图	_raw/images/ledger-plug.png / _raw/images/ledger-plug-1.png
Hardware/LedgerBanner1	Ledger banner	_raw/images/ledger-banner-1.png
Hardware/LedgerBanner2	Ledger banner	_raw/images/ledger-banner-2.png
Hardware/TrezorPlug	Trezor 引导图	_raw/images/trezor-plug.png
Hardware/OneKeyPlug	OneKey 引导图	_raw/images/onekey-plug.png
Hardware/OneKeyBanner1	OneKey banner	_raw/images/onekey-banner-1.png

资产名(建议)	用途	推荐来源(仓库已有)
Hardware/OneKeyBanner 2	OneKey banner	_raw/images/onekey-banner-2.png
Hardware/KeystonePlug	Keystone 引导图	_raw/images/keystone-plug.svg / _raw/images/keystone-plug-1.png
Hardware/ImKeyPlug	ImKey 引导图	_raw/images/imkey-plug.svg
Gnosis/LoadFailed	Gnosis 队列加载失败	_raw/images/gnosis-load-failed.png
Masks/ImportMask	导入遮罩/背景	_raw/images/import-mask.png / _raw/images/entry-import-mask.png
Masks/WatchMask	Watch-only 遮罩/背景	_raw/images/watch-mask.png
Masks/CreatePasswordMask	创建密码遮罩/背景	_raw/images/create-password-mask.png

链图标(离线兜底,至少补齐主链) :

- [ ] mobile/ios/RabbyMobile/Images.xcassets/Chains/ : 建议先导入 required-chain-icons/ ( arbitrum.png、optimism.png、base.png、bitcoin.png、tron.png、ton.png、okt.png )
- [ ] 其余链: 优先走 OpenAPI 的 logo\_url + 缓存; 离线时用通用占位图标

Token 图标(离线兜底) :

- [ ] 方案 A: 仅内置少量 Top Token ( ETH/USDT/USDC/DAI/WBTC... ) + 其余走线上缓存
- [ ] 方案 B: 复用 cryptocurrency-icons/ ( 体积大, 不建议全量打包 App )

## 一、Dashboard 主页模块(扩展端拆解 16 项; iOS 对照逐条回填)

iOS 列说明: =已有对应实现; =有骨架/部分实现/存在明显缺口; =未实现; N/A=扩展特有或 iOS 不适用(或被 iOS 原生能力替代)

#	子功能	扩展源码位置	说明	iOS
1.1	Dashboard 主入口	src/ui/views/Dashboard/index.tsx	整合所有子模块的主页	mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift ( Assets 即主页 )
1.2	DashboardHeader 头部	Dashboard/components/DashboardHeader/	当前账户名、地址、复制、切换账户、QR 码、全屏	mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift + mobile/ios/RabbyMobile/Views/Import/HDManagerSwitchViews.swift

#	子功能	扩展源码位置	说明	iOS
1.3	BalanceView 余额展示	Dashboard/components/BalanceView/	总资产余额 + 链列表 + 资产曲线图(CurveView)	mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift + mobile/ios/RabbyMobile/Views/Assets/BalanceCurveView.swift + mobile/ios/RabbyMobile/Views/Assets/ChainBalanceView.swift
1.4	DashboardPanel 功能面板	Dashboard/components/DashboardPanel/	可拖拽排序的功能入口网格(Send/Receive/Swap/Bridge/NFT/Perps/Approvals/Gas等)	mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift (快捷按钮，非可拖拽网格)
1.5	GasPriceBar Gas价格栏	Dashboard/components/GasPriceBar/	实时显示当前链 Gas 价格	mobile/ios/RabbyMobile/Views/Assets/GasPriceBarView.swift
1.6	CurrentConnection 当前连接	Dashboard/components/CurrentConnection/	当前 Dapp 连接状态	mobile/ios/RabbyMobile/Core/TransactionWatcherManager.swift (DAppPermissionManager 有数据结构但未贯通 UI)
1.7	PendingTxs 待处理交易	Dashboard/components/PendingTxs.tsx	待处理交易数量提示	mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift (toolbar badge)
1.8	PendingApproval 待审批	Dashboard/components/PendingApproval.tsx	待审批请求弹窗	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无 pending 队列)
1.9	Queue 队列	Dashboard/components/Queue.tsx	Gnosis 交易队列提示	mobile/ios/RabbyMobile/Views/Settings/GnosisQueueView.swift (未集成到主页)
1.10	TokenDetailPopup 代币详情	Dashboard/components/TokenDetailPopup/	代币详情弹窗(价格、历史、屏蔽/自定义按钮、诈骗提示)	mobile/ios/RabbyMobile/Views/Assets/TokenDetailView.swift (Sheet/页面式)
1.11	NFT 弹窗	Dashboard/components/NFT/	NFT头像/预览弹窗	mobile/ios/RabbyMobile/Views/Assets/NFTDetailView.swift

#	子功能	扩展源码位置	说明	iOS
1.12	Security 安全状态	Dashboard/components/Security/	安全状态提示	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (交易内安全检查；无 Dashboard 独立卡片)
1.13	Settings 设置面板	Dashboard/components/Settings/	完整的设置抽屉(详见第十章)	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (独立 Tab/页面)
1.14	RecentConnections 最近连接	Dashboard/components/RecentConnections/	最近连接的 Dapp 列表	mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift (展示依赖 DAppPermissionManager, 目前未写入连接数据)
1.15	Contacts 联系人	Dashboard/components/Contacts/	联系人管理弹窗	mobile/ios/RabbyMobile/Core/ContactBookManager.swift + mobile/ios/RabbyMobile/Views/More/MiscViews.swift (SelectToAddres)
1.16	RabbyPointsPopup 积分弹窗	Dashboard/components/RabbyPointsPopup/	Rabby 积分弹窗入口	mobile/ios/RabbyMobile/Views/More/MiscViews.swift (RabbyPoints View, 非 popup)

## 二、发送/接收功能（扩展端拆解 12 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
2.1	SendToken 主页	src/ui/views/SendToken/index.tsx	发送代币主页面	mobile/ios/RabbyMobile/Views/Send/SendTokenView.swift
2.2	链选择器(发送)	SendToken/components/ChainSelectorInSend.tsx	发送时选择链	mobile/ios/RabbyMobile/Views/Send/SendTokenView.swift (依赖 selectedChain；页面内无链选择器)
2.3	MaxButton	SendToken/components/MaxButton.tsx	最大金额按钮	mobile/ios/RabbyMobile/Views/Send/SendTokenView.swift

#	子功能	扩展源码位置	说明	iOS
2.4	SwitchReserveGas	SendToken/components/SwitchReserveGas.tsx	保留 Gas 开关	
2.5	PreExecTransactionExplain	SendToken/components/PreExecTransactionExplain.tsx	预执行交易解释	
2.6	ConfirmAddToContacts	SendToken/components/ModalConfirmAddToContacts.tsx	添加到联系人确认	( iOS 暂无“发送后加联系人”确认流程 )
2.7	ConfirmAllowTransfer	SendToken/components/ModalConfirmAllowTransfer.tsx	允许转账确认(白名单检查)	mobile/ios/RabbyMobile/Views/Send/SendTokenView.swift ( Whitelist Warning 简化版 )
2.8	SendNFT 发送NFT	src/ui/views/SendNFT/index.tsx	发送 NFT 页面	mobile/ios/RabbyMobile/Views/NFT/NFTView.swift + mobile/ios/RabbyMobile/Core/NFTManager.swift ( chainId/1155 calldata 需修 )
2.9	Receive 接收	src/ui/views/Receive/index.tsx	接收页面(二维码+地址)	mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift ( Receive View )
2.10	SelectToAddress	src/ui/views/SelectToAddress/	选择收款地址(导入地址/白名单/手动输入)	mobile/ios/RabbyMobile/Views/More/MiscViews.swift ( SelectToAddressView )
2.11	WhitelistInput	src/ui/views/WhitelistInput/	白名单地址输入	mobile/ios/RabbyMobile/Views/Settings/WhiteListInputView.swift
2.12	GasAccount	src/ui/views/GasAccount/	Gas代付(登录/充值/提现/历史/切换地址)	mobile/ios/RabbyMobile/Views/More/GasAccountView.swift + mobile/ios/RabbyMobile/Core/GasAccountManager.swift ( UI/接口不完整 )

### 三、DEX Swap 兑换模块（扩展端拆解 14 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
3.1	Swap 主页	src/ui/views/Swap/index.tsx	Swap 主入口	mobile/ios/RabbyMobile/Views/Swap/SwapView.swift (未完成 token 选择/执行闭环)
3.2	Swap Main	Swap/Component/Main.tsx	核心交换表单(代币选择、金额输入)	mobile/ios/RabbyMobile/Views/Swap/SwapView.swift
3.3	Swap Header	Swap/Component/Header.tsx	Swap 头部(设置入口)	( iOS 暂无设置入口/聚合器选择等 )
3.4	Token 选择	Swap/Component/Token.tsx	代币选择渲染	( SwapView 中 showTokenSelector 未接入 Sheet )
3.5	Quotes 报价列表	Swap/Component/Quotes.tsx	多DEX报价展示	mobile/ios/RabbyMobile/Views/Swap/SwapView.swift + mobile/ios/RabbyMobile/Core/SwapManager.swift
3.6	QuoteItem 报价项	Swap/Component/QuoteItem.tsx	单个报价详情(价格/Gas/路由)	mobile/ios/RabbyMobile/Views/Swap/SwapView.swift
3.7	History 交换历史	Swap/Component/History.tsx	Swap 历史记录	mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift ( Swap filter ) + mobile/ios/RabbyMobile/Core/TransactionHistoryManager.swift ( 未完全写入 )
3.8	PendingTx 待处理	Swap/Component/PendingTxItem.tsx	待处理的Swap交易	mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift ( 仅通用 pending )
3.9	Slippage 滑点	Swap/hooks/slippage.tsx	滑点设置逻辑	mobile/ios/RabbyMobile/Core/SwapManager.swift ( 有字段 ; UI 未完成 )
3.10	AutoSlippage	Swap/hooks/autoSlippageEffect.tsx	自动滑点调整	

#	子功能	扩展源码位置	说明	iOS
3.11	Quote 报价逻辑	Swap/hooks/quote.tsx	获取报价核心逻辑	mobile/ios/RabbyMobile/Core/SwapManager.swift ( user_address 为空/amount&value 处理不一致需修 )
3.12	TwoStepSwap	Swap/hooks/twoStepSwap.tsx	两步交换(Approve+Swap)	
3.13	RabbyFeePopup	Swap/Component/RabbyFeePopup.tsx	Rabby 费用说明弹窗	
3.14	ReserveGasPopup	Swap/Component/ReserveGasPopup.tsx	保留Gas费弹窗	

#### 四、Bridge 跨链桥模块（扩展端拆解 12 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
4.1	Bridge 主页	src/ui/views/Bridge/index.tsx	跨链桥主入口	mobile/ios/RabbyMobile/Views/Bridge/BridgeView.swift ( 执行 /amount 处理需修 )
4.2	BridgeContent	Bridge/Component/BridgeContent.tsx	跨链桥核心表单	mobile/ios/RabbyMobile/Views/Bridge/BridgeView.swift
4.3	BridgeHeader	Bridge/Component/BridgeHeader.tsx	跨链桥头部	( iOS 暂无聚合器/设置等 header 区域 )
4.4	BridgeToken 代币选择	Bridge/Component/BridgeToken.tsx	跨链代币选择	mobile/ios/RabbyMobile/Views/Bridge/BridgeView.swift ( 当前仅 native token )
4.5	BridgeToTokenSelect	Bridge/Component/BridgeToTokenSelect.tsx	目标链代币选择	
4.6	BridgeQuotes 报价列表	Bridge/Component/BridgeQuotes.tsx	多桥报价展示	mobile/ios/RabbyMobile/Views/Bridge/BridgeView.swift + mobile/ios/RabbyMobile/Core/BridgeManager.swift
4.7	BridgeQuoteItem	Bridge/Component/BridgeQuoteItem.tsx	单个桥报价详情	mobile/ios/RabbyMobile/Views/Bridge/BridgeView.swift

#	子功能	扩展源码位置	说明	iOS
4.8	BridgeSlippage	Bridge/Component/BridgeSlippage.tsx	跨链桥滑点设置	
4.9	BridgeSwitchButton	Bridge/Component/BridgeSwitchButton.tsx	链方向切换按钮	mobile/ios/RabbyMobile/Views/Bridge/BridgeView.swift (swapChains)
4.10	BridgeHistory	Bridge/Component/BridgeHistory.tsx	跨链历史记录	mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift (Bridge filter) + mobile/ios/RabbyMobile/Core/TransactionHistoryManager.swift
4.11	PendingTx 待处理	Bridge/Component/PendingTx.tsx	待处理跨链交易	mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift (仅通用 pending)
4.12	ShowMoreGasModal	Bridge/Component>ShowMoreGasModal.tsx	Gas费用详情弹窗	

## 五、Perps 合约交易模块（扩展端拆解 19 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
5.1	Perps 首页	src/ui/views/Perps/screen/home.tsx	合约交易首页	mobile/ios/RabbyMobile/Views/More/LendingPerpsAdvancedView.swift (PerpsView 骨架)
5.2	SingleCoin 单币页	Perps/screen/SingleCoin.tsx	单币合约交易页	mobile/ios/RabbyMobile/Views/More/LendingPerpsAdvancedView.swift (coin selector)
5.3	ExploreMore 探索更多	Perps/screen/ExploreMore.tsx	探索更多合约	
5.4	HistoryPage 历史	Perps/screen/HistoryPage.tsx	合约交易历史	
5.5	Chart K线图	Perps/components/Chart.tsx	K线图/价格图表	

#	子功能	扩展源码位置	说明	iOS
5.6	PositionItem 持仓	Perps/components/PositionItem.tsx	持仓详情项	mobile/ios/RabbyMobile/Core/PerpsManager.swift ( positions/orders 未对接后端 )
5.7	LeverageInput 杠杆	Perps/components/LeverageInput.tsx	杠杆倍数输入	mobile/ios/RabbyMobile/Views/More/LendingPerpsAdvancedView.swift
5.8	MarginInput 保证金	Perps/components/MarginInput.tsx	保证金输入	mobile/ios/RabbyMobile/Views/More/LendingPerpsAdvancedView.swift ( size 输入 )
5.9	OpenPositionPopup	Perps/popup/OpenPositionPopup.tsx	开仓弹窗	
5.10	ClosePositionPopup	Perps/popup/ClosePositionPopup.tsx	平仓弹窗	
5.11	AddPositionPopup	Perps/popup/AddPositionPopup.tsx	加仓弹窗	
5.12	EditMarginPopup	Perps/popup/EditMarginPopup.tsx	编辑保证金弹窗	
5.13	DepositAmountPopup	Perps/popup/DepositAmountPopup.tsx	充值金额弹窗	
5.14	LoginPopup	Perps/popup/LoginPopup.tsx	Perps 登录弹窗	
5.15	SearchPerpsPopup	Perps/popup/SearchPerpsPopup.tsx	搜索合约弹窗	
5.16	TokenSelectPopup	Perps/popup/TokenSelectPopup.tsx	代币选择弹窗	
5.17	RiskLevelPopup	Perps/popup/RiskLevelPopup.tsx	风险等级弹窗	
5.18	HistoryDetailPopup	Perps/popup/HistoryDetailPopup.tsx	历史详情弹窗	
5.19	PerpsInvitePopup	Perps/popup/PerpsInvitePopup.tsx	邀请弹窗	

## 六、 GasAccount Gas代付模块（扩展端拆解 10 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
6.1	GasAccount 主页	src/ui/views/GasAccount/index.tsx	Gas代付主页	mobile/ios/RabbyMobile/Views/More/GasAccountView.swift
6.2	GasAccountCard	GasAccount/components/GasAccountCard.tsx	Gas账户卡片	mobile/ios/RabbyMobile/Views/More/GasAccountView.swift ( 简化卡片 )
6.3	GasAccountLoginCard	GasAccount/components/GasAccountLoginCard.tsx	登录卡片	( iOS 暂无签名登录流程 UI )
6.4	LoginPopup	GasAccount/components/LoginPopup.tsx	Gas登录弹窗	
6.5	DepositPopup	GasAccount/components/DepositPopup.tsx	充值弹窗	mobile/ios/RabbyMobile/Views/More/GasAccountView.swift ( deposit 为占位 )
6.6	WithdrawPopup	GasAccount/components/WithdrawPopup.tsx	提现弹窗	
6.7	History	GasAccount/components/History.tsx	Gas使用历史	mobile/ios/RabbyMobile/Views/More/GasAccountView.swift ( 本地占位 )
6.8	LogoutPopup	GasAccount/components/LogoutPopup.tsx	退出登录弹窗	
6.9	SwitchLoginAddrModal	GasAccount/components/SwitchLoginAddrModal.tsx	切换登录地址	
6.10	GasAccountTxPopups	GasAccount/components/GasAccountTxPopups.tsx	Gas交易弹窗	

## 七、交易历史模块（扩展端拆解 8 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
7.1	History 主页	src/ui/views/History/index.tsx	交易历史主页	mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift
7.2	History 过滤诈骗	History (isFilterScam=true)	过滤诈骗交易视图	( iOS 暂无 is_scam 过滤开关 )

#	子功能	扩展源码位置	说明	iOS
7.3	HistoryItem	History/components/HistoryItem.tsx	单条历史记录	mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift (行渲染)
7.4	HistoryList	History/components/HistoryList.tsx	历史列表	mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift
7.5	TransactionHistory	src/ui/views/TransactionHistory/	详细交易历史(内存池/取消/加速)	mobile/ios/RabbyMobile/Core/TransactionManager.swift (cancel/speedUp有方法;缺少详情页UI)
7.6	CancelTxPopup	TransactionHistory/components/CancelTxPopup.tsx	取消交易弹窗	
7.7	SignedTextHistory	src/ui/views/SignedTextHistory/	签名文本历史记录	mobile/ios/RabbyMobile/Views/More/MiscViews.swift (SignedTextHistoryView) + mobile/ios/RabbyMobile/Core/SignedHistoryManager.swift
7.8	Activities	src/ui/views/Activities/	活动/签名记录页	mobile/ios/RabbyMobile/Views/Activities/ActivitiesView.swift

## 八、NFT 模块（扩展端拆解 6 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
8.1	NFTView 主页	src/ui/views/NFTView/index.tsx	NFT 浏览主页	mobile/ios/RabbyMobile/Views/NFT/NFTView.swift (另有 NFTGalleryView 嵌入资产页)
8.2	CollectionCard	NFTView/CollectionCard.tsx	NFT合集卡片	mobile/ios/RabbyMobile/Views/NFT/NFTView.swift
8.3	useCollection	NFTView/useCollection.tsx	NFT合集数据Hook	mobile/ios/RabbyMobile/Core/NFTManager.swift

#	子功能	扩展源码位置	说明	iOS
8.4	NFTEmpty	NFTView/NFTEmpty.tsx	空状态展示	mobile/ios/RabbyMobile/Views/NFT/NFTView.swift
8.5	ModalPreviewNFTItem	src/ui/component/ModalPreviewNFTItem/	NFT预览弹窗	mobile/ios/RabbyMobile/Views/NFT/NFTView.swift ( Sheet: NFTDetailView )
8.6	NFTNumberInput	src/ui/component/NFTNumberInput/	NFT数量输入	mobile/ios/RabbyMobile/Views/NFT/NFTView.swift ( SendNFTView 有数量输入 ; ERC1155 calldata 未完成 )

## 九、授权管理模块（扩展端拆解 7 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
9.1	TokenApproval 主页	src/ui/views/TokenApproval/index.tsx	Token授权管理主页	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift ( TokenApprovalView : 未接 OpenAPI )
9.2	ApprovalCard	TokenApproval/components/ApprovalCard.tsx	授权卡片	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift ( 列表行 )
9.3	PopupApprovalCard	TokenApproval/components/PopupApprovalCard.tsx	授权详情弹窗	
9.4	PopupSearch 搜索	TokenApproval/components/PopupSearch.tsx	搜索授权	
9.5	NFTApproval 主页	src/ui/views/NFTApproval/index.tsx	NFT授权管理主页	mobile/ios/RabbyMobile/Views/More/MiscViews.swift ( NFTApprovalView , 读 OpenAPI )
9.6	NFTContractList	NFTApproval/components/NFTContractList.tsx	NFT合约列表	mobile/ios/RabbyMobile/Views/More/MiscViews.swift ( 未按合约分组 )
9.7	NFTList	NFTApproval/components/NFTList.tsx	NFT列表	mobile/ios/RabbyMobile/Views/More/MiscViews.swift

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## 十、交易审批/签名引擎（扩展端拆解 30 组；iOS 对照逐条回填） - 最复杂模块

### 10.1 交易类型 Actions（扩展端拆解 20 项）

#	子功能	扩展源码位置	说明	iOS
10.1.1	Send 发送	Approval/components/Actions/Send.tsx	发送交易解析	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无 action parser，仅 method decode)
10.1.2	Swap 兑换	Approval/components/Actions/Swap.tsx	Swap交易解析	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无 action parser，仅 method decode)
10.1.3	CrossSwapToken	Approval/components/Actions/CrossSwapToken.tsx	跨链Swap解析	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无 action parser，仅 method decode)
10.1.4	CrossToken	Approval/components/Actions/CrossToken.tsx	跨链转账解析	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无 action parser，仅 method decode)
10.1.5	TokenApprove	Approval/components/Actions/TokenApprove.tsx	Token授权解析	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无 action parser，仅 method decode)
10.1.6	RevokeTokenApprove	Approval/components/Actions/RevokeTokenApprove.tsx	撤销授权	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无 action parser，仅 method decode)

#	子功能	扩展源码位置	说明	iOS
10.1.7	ApproveNFT	Approval/components/Actions/ApproveNFT.tsx	NFT授权	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift(无action parser, 仅method decode)
10.1.8	ApproveNFTCollection	Approval/components/Actions/ApproveNFTCollection.tsx	NFT合集授权	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift(无action parser, 仅method decode)
10.1.9	RevokeNFT	Approval/components/Actions/RevokeNFT.tsx	撤销NFT授权	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift(无action parser, 仅method decode)
10.1.10	SendNFT	Approval/components/Actions/SendNFT.tsx	发送NFT解析	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift(无action parser, 仅method decode)
10.1.11	ContractCall	Approval/components/Actions/ContractCall.tsx	合约调用解析	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift(无action parser, 仅method decode)
10.1.12	DeployContract	Approval/components/Actions/DeployContract.tsx	部署合约解析	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift(无action parser, 仅method decode)
10.1.13	CancelTx	Approval/components/Actions/CancelTx.tsx	取消交易	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift(无action parser, 仅method decode)

#	子功能	扩展源码位置	说明	iOS
10.1.14	WrapToken	Approval/components/Actions/WrapToken.tsx	Wrap代币	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无action parser, 仅method decode)
10.1.15	UnWrapToken	Approval/components/Actions/UnWrapToken.tsx	UnWrap代币	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无action parser, 仅method decode)
10.1.16	AddLiquidity	Approval/components/Actions/AddLiquidity.tsx	添加流动性	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无action parser, 仅method decode)
10.1.17	MultiSwap	Approval/components/Actions/MultiSwap.tsx	多路径Swap	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无action parser, 仅method decode)
10.1.18	PushMultiSig	Approval/components/Actions/PushMultiSig.tsx	推送多签	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无action parser, 仅method decode)
10.1.19	AssetOrder	Approval/components/Actions/AssetOrder.tsx	资产订单	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无action parser, 仅method decode)
10.1.20	TransferOwner	Approval/components/Actions/TransferOwner.tsx	转移所有权	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift (无action parser, 仅method decode)

## 10.2 TypedData Actions ( 扩展端拆解 11 项 )

#	子功能	扩展源码位置	说明	iOS
10.2.1	Permit	Approval/components/TypedDataActions/Permit.tsx	Permit签名	mobile/ios/Rabbymobile/Core/EthereumUtils.swift ( EIP-712 notImplemented )
10.2.2	Permit2	Approval/components/TypedDataActions/Permit2.tsx	Permit2签名	mobile/ios/Rabbymobile/Core/EthereumUtils.swift ( EIP-712 notImplemented )
10.2.3	BatchPermit2	Approval/components/TypedDataActions/BatchPermit2.tsx	批量Permit2	mobile/ios/Rabbymobile/Core/EthereumUtils.swift ( EIP-712 notImplemented )
10.2.4	SwapTokenOrder	Approval/components/TypedDataActions/SwapTokenOrder.tsx	Swap订单签名	mobile/ios/Rabbymobile/Core/EthereumUtils.swift ( EIP-712 notImplemented )
10.2.5	BuyNFT	Approval/components/TypedDataActions/BuyNFT.tsx	购买NFT	mobile/ios/Rabbymobile/Core/EthereumUtils.swift ( EIP-712 notImplemented )
10.2.6	SellNFT	Approval/components/TypedDataActions/SellNFT.tsx	出售NFT	mobile/ios/Rabbymobile/Core/EthereumUtils.swift ( EIP-712 notImplemented )
10.2.7	BatchSellNFT	Approval/components/TypedDataActions/BatchSellNFT.tsx	批量出售NFT	mobile/ios/Rabbymobile/Core/EthereumUtils.swift ( EIP-712 notImplemented )
10.2.8	SignMultisig	Approval/components/TypedDataActions/SignMultisig.tsx	多签签名	mobile/ios/Rabbymobile/Core/EthereumUtils.swift ( EIP-712 notImplemented )
10.2.9	CoboSafeCreate	Approval/components/TypedDataActions/CoboSafeCreate.tsx	Cobo Safe创建	
10.2.10	CoboSafe修改委托	Approval/components/TypedDataActions/CoboSafeModification*.tsx	Cobo Safe修改(3个)	

#	子功能	扩展源码位置	说明	iOS
10.2.11	ContractCall(Typed)	Approval/components/TypedDataActions/ContractCall.tsx	TypedData合约调用	mobile/ios/RabbyMobile/Core/EthereumUtils.swift ( EIP-712 notImplemented )

### 10.3 签名/等待流程 ( 扩展端拆解 10 项 )

#	子功能	扩展源码位置	说明	iOS
10.3.1	SignTx 签名交易	Approval/components/SignTx.tsx	交易签名主页	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift
10.3.2	SignText 签名文本	Approval/components/SignText.tsx	文本签名(personal_sign)	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift ( SignTextApprovalView 存在 , 但 DAppBrowser 未接入 )
10.3.3	SignTypedData	Approval/components/SignTypedData.tsx	TypedData签名 (EIP-712)	mobile/ios/RabbyMobile/Core/EthereumUtils.swift ( TypedData notImplemented )
10.3.4	ETHSign	Approval/components/ETHSign.tsx	eth_sign(危险签名)	
10.3.5	Decrypt	Approval/components/Decrypt.tsx	解密请求	
10.3.6	GetPublicKey	Approval/components/GetPublicKey.tsx	获取公钥	
10.3.7	LedgerHardwareWaiting	Approval/components/LedgerHardwareWaiting.tsx	Ledger等待签名	( Ledger 连接页存在 , 但未接入 Approval 等待态 )
10.3.8	ImKeyHardwareWaiting	Approval/components/ImKeyHardwareWaiting.tsx	imKey等待签名	
10.3.9	QRHardWareWaiting	Approval/components/QRHardWareWaiting/	QR码硬件等待(Keystone)	
10.3.10	WatchAddressWaiting	Approval/components/WatchAddressWaiting/	观察地址等待签名	

### 10.4 迷你签名 ( 扩展端拆解 3 项 )

#	子功能	扩展源码位置	说明	iOS
10.4.1	MiniSignTx	Approval/components/MiniSignTx/	迷你签名交易(批量)	
10.4.2	MiniPersonalMessage	Approval/components/MiniPersonalMessage/	迷你个人签名	
10.4.3	MiniSignTypedData	Approval/components/MiniSignTypedData/	迷你TypedData签名	

## 10.5 安全引擎 ( 扩展端拆解 3 项 )

#	子功能	扩展源码位置	说明	iOS
10.5.1	SecurityEngine	Approval/components/SecurityEngine/	安全规则检查UI	mobile/ios/RabbyMobile/Core/SecurityEngineManager.swift + mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift + mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift
10.5.2	RuleDrawer	Approval/components/SecurityEngine/RuleDrawer.tsx	安全规则详情	
10.5.3	BalanceChange	Approval/components/TxComponents/BalanceChange.tsx	余额变化预览	

## 10.6 其他审批组件 ( 扩展端拆解 7 项 )

#	子功能	扩展源码位置	说明	iOS
10.6.1	Connect 连接请求	Approval/components/Connect/	Dapp连接请求(选择钱包/权限)	(仅有 DAppPermissionManager 数据结构)
10.6.2	AddChain 添加链	Approval/components/AddChain/	添加新链请求	
10.6.3	SwitchChain 切换链	Approval/components/SwitchChain/	切换链请求	mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift (wallet_switchEthereumChain 直切，无审批 UI)

#	子功能	扩展源码位置	说明	iOS
10.6.4	AddAsset 添加资产	Approval/components/AddAsset.tsx	添加代币请求	
10.6.5	ImportAddress 导入地址	Approval/components/ImportAddress.tsx	导入地址请求	
10.6.6	FooterBar	Approval/components/FooterBar/	签名底部栏(16个组件:各钱包签名按钮)	
10.6.7	BroadcastMode	Approval/components/BroadcastMode/	广播模式选择	

## 十一、账户创建/导入流程（扩展端拆解 16 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
11.1	Welcome 欢迎页	src/ui/views/Welcome.tsx	首次打开欢迎页	mobile/ios/RabbyMobile/Views/RootView.swift (OnboardingView)
11.2	CreatePassword	src/ui/views/CreatePassword.tsx	创建密码	mobile/ios/RabbyMobile/Views/Wallet/CreateWalletView.swift
11.3	Unlock 解锁	src/ui/views/Unlock/	解锁页面	mobile/ios/RabbyMobile/Views/RootView.swift (UnlockView)
11.4	ForgotPassword	src/ui/views/ForgotPassword/	忘记密码	mobile/ios/RabbyMobile/Views/More/MiscViews.swift (ForgotPasswordView)
11.5	NoAddress	src/ui/views/NoAddress/	无地址时引导	(iOS暂无独立NoAddress页面；需梳理“已初始化但无可用地址”分支)
11.6	ImportMode	src/ui/views/ImportMode.tsx	导入模式选择	mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift
11.7	ImportPrivateKey	src/ui/views/ImportPrivateKey.tsx	导入私钥	mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift (ImportPrivateKeyView)

#	子功能	扩展源码位置	说明	iOS
11.8	ImportMnemonics	src/ui/views/ImportMnemonics/InputMnemonics.tsx	导入助记词	mobile/ios/RabbyMobile/Views/Wallet/ImportWalletView.swift
11.9	CreateMnemonics	src/ui/views/CreateMnemonics/	创建助记词(显示+风险确认)	mobile/ios/RabbyMobile/Views/Wallet/CreateWalletView.swift
11.10	ImportJson	src/ui/views/ImportJson.tsx	导入JSON钱包文件	mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift (JsonKeystoreImportView : Core未实现解密)
11.11	ImportWatchAddress	src/ui/views/ImportWatchAddress.tsx	导入观察地址	mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift (WatchAddressImportView)
11.12	AddFromCurrentSeedPhrase	src/ui/views/AddFromCurrentSeedPhrase/	从已有种子派生新地址	mobile/ios/RabbyMobile/Views/Import/ImportsuccessAddFromSeedView.swift (AddFromSeedPhraseView)
11.13	ImportMetaMask	src/ui/views/ImportMyMetaMaskAccount/	导入MetaMask账户	
11.14	SelectAddress	src/ui/views/SelectAddress/	导入后选择地址(分页)	mobile/ios/RabbyMobile/Views/Import/SelectAddressView.swift + mobile/ios/RabbyMobile/Views/Import/HDManagerSwitchViews.swift (HDManagerView)
11.15	ImportSuccess	src/ui/views/ImportSuccess/	导入成功页	mobile/ios/RabbyMobile/Views/Import/ImportsuccessAddFromSeedView.swift
11.16	AddAddress	src/ui/views/AddAddress/	添加地址入口页	mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift (ImportHub)

## 十二、新用户引导流程（扩展端拆解 14 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
12.1	Guide 引导	NewUserImport/Guide.tsx	新用户引导首页	mobile/ios/RabbyMobile/Views/RootView.swift (Onboarding pages)
12.2	ImportList 列表	NewUserImport/ImportList.tsx	导入方式列表	mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift
12.3	ImportPrivateKey	NewUserImport/ImportPrivateKey.tsx	新用户导入私钥	mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift (ImportPrivateKeyView)
12.4	ImportSeedPhrase	NewUserImport/ImportSeedPhrase.tsx	新用户导入助记词	mobile/ios/RabbyMobile/Views/Wallet/ImportWalletView.swift
12.5	CreateSeedPhrase	NewUserImport/CreateSeedPhrase.tsx	新用户创建助记词	mobile/ios/RabbyMobile/Views/Wallet/CreateWalletView.swift
12.6	BackupSeedPhrase	NewUserImport/BackupSeedPhrase.tsx	备份助记词	mobile/ios/RabbyMobile/Views/Wallet/CreateWalletView.swift
12.7	SetPassword	NewUserImport/SetPassword.tsx	设置密码	mobile/ios/RabbyMobile/Views/Wallet/CreateWalletView.swift
12.8	ImportGnosis	NewUserImport/ImportGnosisAddress.tsx	新用户导入Gnosis	mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift (GnosisSafeImportView 骨架)
12.9	ImportLedger	NewUserImport/ImportLedger.tsx	新用户连接Ledger	mobile/ios/RabbyMobile/Views/HardwareWallet/LedgerConnectView.swift
12.10	ImportImKey	NewUserImport/ImportImKey.tsx	新用户连接imKey	
12.11	ImportKeystone	NewUserImport/ImportKeystone.tsx	新用户连接Keystone	
12.12	ImportOneKey	NewUserImport/ImportOnekey.tsx	新用户连接OneKey	

#	子功能	扩展源码位置	说明	iOS
12.13	SelectAddress	NewUserImport/SelectAddress.tsx	新用户选择地址	mobile/ios/RabbyMobile/Views/Import/SelectAddressView.swift
12.14	Success/ReadyToUse	NewUserImport/Success.tsx + ReadyToUse.tsx	成功+准备使用	mobile/ios/RabbyMobile/Views/Import/ImportsSuccessAddFromSelectedView.swift

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### 十三、硬件钱包连接（扩展端拆解 8 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
13.1	ImportHardware 入口	src/ui/views/ImportHardware/index.tsx	硬件钱包选择入口	mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift ( Hardware Wallets 区域 )
13.2	LedgerConnect	ImportHardware/LedgerConnect/	Ledger连接(含Banner)	mobile/ios/RabbyMobile/Views/HardwareWallet/LedgerConnectView.swift + mobile/ios/RabbyMobile/Core/HardwareWallet/BluetoothManager.swift
13.3	TrezorConnect	ImportHardware/TrezorConnect/	Trezor连接	
13.4	OneKeyConnect	ImportHardware/OneKeyConnect/	OneKey连接(含图片轮播)	
13.5	KeystoneConnect	ImportHardware/KeystoneConnect/	Keystone连接	
13.6	ImKeyConnect	ImportHardware/ImKeyConnect/	imKey连接	
13.7	QRCodeConnect	ImportHardware/QRCodeConnect/	QR扫码连接	( iOS 相机扫码未实现 )
13.8	HDManager	src/ui/views/HDManager/	HD地址管理(Ledger/Trezor/OneKey/GridPlus/BitBox02/imKey/Keystone/QRCode/Mnemonic)	mobile/ios/RabbyMobile/Views/Import/HDManagerSwitchViews.swift ( HDManager View ; BIP44 correctness 见 0.3 )

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## 十四、多签/协议钱包（扩展端拆解 5 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
14.1	ImportGnosisAddress	src/ui/views/ImportGnosisAddress/	导入 Gnosis Safe 地址	mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift ( GnosisSafeImportView ) + mobile/ios/RabbyMobile/Core/WatchGnosisSessionKeyrings.swift
14.2	GnosisQueue 队列	src/ui/views/GnosisQueue/	Gnosis 交易队列+消息队列	mobile/ios/RabbyMobile/Views/Settings/GnosisQueueView.swift
14.3	ImportCoboArgus	src/ui/views/ImportCoboArgus/	导入 Cobo Argus	
14.4	ImportCoinbase	src/ui/views/ImportCoinbase/	导入 Coinbase	
14.5	WalletConnect	src/ui/views/WalletConnect/	WalletConnect 连接	mobile/ios/RabbyMobile/Views/More/GasAccountView.swift ( WalletConnectView ) + mobile/ios/RabbyMobile/Core/WalletConnectManager.swift ( notImplemented )

## 十五、设置/管理功能（扩展端拆解 20 项；iOS 对照逐条回填）

### 15.1 设置面板内功能 (Dashboard Settings)

#	子功能	扩展源码位置	说明	iOS
15.1.1	LockWallet 锁定钱包	Settings ( 快捷键 Cmd+L )	锁定钱包	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift ( Lock Wallet )
15.1.2	SignatureRecord 签名记录	/activities	签名记录入口	mobile/ios/RabbyMobile/Views/More/MiscViews.swift ( SignedTextHistoryView ) + mobile/ios/RabbyMobile/Views/Activities/ActivitiesView.swift

#	子功能	扩展源码位置	说明	iOS
15.1.3	ManageAddress 地址管理	/settings/address	地址管理入口	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (AddressManagementView)
15.1.4	Ecosystem 生态	EcosystemBanner	生态入口(DBK Chain/Sonic)	mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift (仅通用DApp Browser)
15.1.5	SyncToMobile	/sync	同步到手机	
15.1.6	SearchDapps 搜索Dapp	/dapp-search	Dapp搜索入口	mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift (URL输入/Popular列表，非搜索页1:1)
15.1.7	ConnectedDapps	RecentConnections	已连接Dapp列表	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (ConnectedSitesView)
15.1.8	PwdForNonWhitelisted	Switch开关	非白名单转账密码验证	(iOS仅提示警告，不做密码二次确认)
15.1.9	DappAccount	Switch开关 + 介绍弹窗	Dapp账户模式	
15.1.10	CustomTestnet	/custom-testnet	自定义测试网	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (CustomTestnetView) + mobile/ios/RabbyMobile/Core/CustomTestnetManager.swift
15.1.11	CustomRPC	/custom-rpc	自定义RPC	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (CustomRPCView) + mobile/ios/RabbyMobile/Core/CusttomRPCManager.swift
15.1.12	SwitchLang 语言	SwitchLangModal	语言切换	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (Picker已有；i18n资源缺失见0.4)

#	子功能	扩展源码位置	说明	iOS
15.1.13	ThemeMode 主题	SwitchThemeModal	主题切换(亮/暗/跟随系统)	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift + mobile/ios/RabbyMobile/Core/PreferenceManager.swift
15.1.14	MetaMaskMode	/metamask-mode-dapps	MetaMask模式Dapp管理	
15.1.15	AutoLock 自动锁定	AutoLockModal	自动锁定时间设置(永不/10min/1h/4h/1d/7d)	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift + mobile/ios/RabbyMobile/Core/AutoLockManager.swift
15.1.16	ClearPending 清除待处理	ResetAccountModal	清除待处理交易+Nonce	

## 15.2 独立设置页面

#	子功能	扩展源码位置	说明	iOS
15.2.1	ManageAddress	src/ui/views/ManageAddress/	地址分组管理(删除/排序)	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (AddressManagementView : hide/unhide , 未做分组/排序 )
15.2.2	AddressDetail	src/ui/views/AddressDetail/	地址详情(备份/Gnosis信息/CoboArgus/硬件状态)	mobile/ios/RabbyMobile/Views/AddressDetail/AddressDetailView.swift
15.2.3	AddressBackup 私钥	src/ui/views/AddressBackup/PrivateKey.tsx	备份私钥	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (AddressBackupView )
15.2.4	AddressBackup 助记词	src/ui/views/AddressBackup/Mnemonics.tsx	备份助记词(含Slip39)	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (AddressBackupView )

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## 十六、Ecology 链上生态（扩展端拆解 7 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
16.1	Ecology 入口	src/ui/views/Ecology/index.tsx	生态入口路由	mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift (以DApp Browser代替Ecology路由)
16.2	DBK Chain Home	Ecology/dbk-chain/pages/Home/	DBK Chain 首页	
16.3	DBK Bridge	Ecology/dbk-chain/pages/Bridge/	DBK Chain 跨链桥	
16.4	DBK MintNFT	Ecology/dbk-chain/pages/MintNFT/	DBK Chain 铸造NFT	
16.5	Sonic Home	Ecology/sonic/pages/Home/	Sonic 首页	
16.6	Sonic Points	Ecology/sonic/pages/Points/	Sonic 积分页	
16.7	Sonic迁移Banner	Ecology/sonic/component/MigrationBanner.tsx	Sonic 迁移提示	

## 十七、Rabby Points 积分（扩展端拆解 5 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
17.1	RabbyPoints 主页	src/ui/views/RabbyPoints/index.tsx	积分主页	mobile/ios/RabbyMobile/Views/More/MiscViews.swift (RabbyPoints View)
17.2	TopBoard 排行榜	RabbyPoints/component/TopBoard.tsx	积分排行榜	
17.3	ClaimItem 领取	RabbyPoints/component/ClaimItem.tsx	领取积分项	mobile/ios/RabbyMobile/Views/More/MiscViews.swift (Claim button + history, 非列表式 ClaimItem)
17.4	CodeAndShare 分享	RabbyPoints/component/CodeAndShare.tsx	邀请码+分享	mobile/ios/RabbyMobile/Views/More/MiscViews.swift (Referral link 复制；可补系统分享)
17.5	VerifyAddressModal	RabbyPoints/component/VerifyAddressModal.tsx	验证地址弹窗	

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## 十八、Dapp 搜索（扩展端拆解 4 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
18.1	DappSearch 主页	src/ui/views/DappSearch/index.tsx	Dapp搜索主页	mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift (以 DApp Browser 代替)
18.2	DappCard	DappSearch/components/DappCard.tsx	Dapp卡片	mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift ( PopularDApps 网格 )
18.3	DappFavoriteList	DappSearch/components/DappFavoriteList.tsx	收藏Dapp列表	( Bookmark 状态存在但未实现列表 UI )
18.4	DappSearchResult	DappSearch/components/DappSearchResult.tsx	搜索结果展示	

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## 十九、其他独立功能（扩展端拆解 6 项；iOS 对照逐条回填）

#	子功能	扩展源码位置	说明	iOS
19.1	ConnectedSites	src/ui/views/ConnectedSites/	已连接站点管理	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift ( ConnectedSitesView ; 连接数据未完全贯通 )
19.2	ChainList 链列表	src/ui/views/ChainList/	支持的链列表展示	mobile/ios/RabbyMobile/Views/More/GasAccountView.swift ( ChainListView )
19.3	CustomRPC	src/ui/views/CustomRPC/	自定义RPC(添加/编辑)	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift ( CustomRPCView ) + mobile/ios/RabbyMobile/Core/CustomRPCManager.swift

#	子功能	扩展源码位置	说明	iOS
19.4	CustomTestnet	src/ui/views/CustomTestnet/	自定义测试网(添加/编辑/从ChainList添加)	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (CustomTestnetView) + mobile/ios/RabbyMobile/Core/CustomTestnetManager.swift
19.5	AdvancedSettings	src/ui/views/AdvancedSettings/	高级设置	mobile/ios/RabbyMobile/Views/More/LendingPerpsAdvancedView.swift (AdvancedSettingsView)
19.6	MetamaskModeDapps	src/ui/views/MetamaskModeDapps/	MetaMask模式Dapp(引导+列表)	

## 二十、核心 UI 组件库 ( 扩展端拆解 28 组件 ; iOS 不做 1:1 时可忽略 )

#	组件	扩展源码位置	说明	iOS
20.1	ChainSelector	src/ui/component/ChainSelector/	链选择器	
20.2	TokenSelector	src/ui/component/TokenSelector/	代币搜索+选择	
20.3	TokenSelect	src/ui/component/TokenSelect/	代币下拉选择	
20.4	TokenAmountInput	src/ui/component/TokenAmountInput/	代币金额输入框	
20.5	TokenWithChain	src/ui/component/TokenWithChain/	代币+链图标组合	
20.6	TokenChart	src/ui/component/TokenChart/	代币价格图表	
20.7	AccountSelector	src/ui/component/AccountSelector/	账户选择器	
20.8	AccountSelectDrawer	src/ui/component/AccountSelectDrawer/	账户选择抽屉	
20.9	AddressViewer	src/ui/component/AddressViewer/	地址查看器(缩略显示)	

#	组件	扩展源码位置	说明	iOS
20.10	NameAndAddress	src/ui/component/NameAndAddress/	名称+地址	
20.11	ChainIcon	src/ui/component/ChainIcon.tsx	链图标	
20.12	QRCodeReader	src/ui/component/QRCodeReader/	二维码扫描器	
20.13	MiniSignV2	src/ui/component/MiniSignV2/	迷你签名面板	
20.14	TxHistory	src/ui/component/TxHistory/	交易历史组件	
20.15	ThemeMode	src/ui/component/ThemeMode/	主题模式(Themelcon)	
20.16	ConnectStatus	src/ui/component/ConnectStatus/	连接状态指示器	
20.17	WalletConnect	src/ui/component/WalletConnect/	WalletConnect组件	
20.18	Whitelist	src/ui/component/Whitelist/	白名单管理组件(含密码弹窗)	
20.19	Contact	src/ui/component/Contact/	联系人组件	
20.20	RateModal	src/ui/component/RateModal/	评分引导弹窗	
20.21	Popup/Modal	src/ui/component/Popup/+ Modal/	弹窗/对话框	
20.22	PageHeader	src/ui/component/PageHeader/	页面头部导航	
20.23	Navbar	src/ui/component/Navbar/	导航栏	
20.24	Loading/Spin	src/ui/component>Loading/+ Spin.tsx	加载动画	
20.25	AddressRiskAlert	src/ui/component/AddressRiskAlert/	地址风险告警	
20.26	CexSelect	src/ui/component/CexSelect/	中心化交易所选择	
20.27	WordsMatrix	src/ui/component/WordsMatrix/	助记词矩阵展示	
20.28	StrayPage	src/ui/component/StrayPage/	独立页面容器	

## 二十一、核心 Hooks ( 扩展端拆解 40+ ; iOS 不适用 )

#	Hook	扩展源码位置	说明	iOS
21.1	useAccounts	src/ui/hooks/useAccounts.ts	账户列表	
21.2	useCurrentBalance	src/ui/hooks/useCurrentBalance.ts	当前余额	
21.3	useChain	src/ui/hooks/useChain.ts	链信息	
21.4	useContact	src/ui/hooks/useContact.ts	联系人	
21.5	useSearchToken	src/ui/hooks/useSearchToken.ts	代币搜索	
21.6	useSortTokens	src/ui/hooks/useSortTokens.ts	代币排序	
21.7	useTokenInfo	src/ui/hooks/useTokenInfo.ts	代币信息	
21.8	useAddressInfo	src/ui/hooks/useAddressInfo.ts	地址信息	
21.9	useAddressRisk	src/ui/hooks/useAddressRisk.ts	地址风险	
21.10	useBalanceChange	src/ui/hooks/useBalanceChange.ts	余额变化	
21.11	useApprovalDangerCount	src/ui/hooks/useApprovalDangerCount.ts	授权风险数	
21.12	useGnosisNetworks	src/ui/hooks/useGnosisNetworks.ts	Gnosis网络	
21.13	useGnosisPendingCount	src/ui/hooks/useGnosisPendingCount.ts	Gnosis待处理数	
21.14	useGnosisPendingTxs	src/ui/hooks/useGnosisPendingTxs.ts	Gnosis待处理交易	
21.15	useGnosisSafeInfo	src/ui/hooks/useGnosisSafeInfo.ts	Gnosis Safe信息	
21.16	useSigner	src/ui/hooks/useSigner.tsx	签名者	
21.17	useTypedDataSigner	src/ui/hooks/useTypedDataSigner.ts	TypedData签名者	
21.18	useNFTListingSigner	src/ui/hooks/useNFTListingSigner.ts	NFT上架签名	
21.19	usePreference	src/ui/hooks/usePreference.ts	用户偏好	

#	Hook	扩展源码位置	说明	iOS
21.20	useDeleteHdOrPrivateKey	src/ui/hooks/useDeleteHdOrPrivateKeyringAddres.tsx	删除HD/私钥地址	
21.21	useTypingMnemonics	src/ui/hooks/useTypingMnemonics.ts	助记词输入	
21.22	useParseAddress	src/ui/hooks/useParseAddress.ts	地址解析(ENS等)	
21.23	useAppChain	src/ui/hooks/useAppChain.ts	应用链状态	
21.24	useBrandIcon	src/ui/hooks/useBrandIcon.ts	品牌图标	
21.25+	其他15+ hooks	src/ui/hooks/	事件监听/防抖/挂载等	

## 二十二、后台服务层（扩展端拆解 30+；iOS 对照逐条回填）

#	服务	扩展源码位置	说明	iOS
22.1	Keyring 密钥管理	src/background/service/keyring/	HD/Simple/Hardware 密钥环	mobile/ios/RabbyMobile/Core/KeyringManager.swift (派生/签名 correctness 见 0.3)
22.2	OpenAPI	src/background/service/openapi.ts	Rabby API 客户端	mobile/ios/RabbyMobile/Core/OpenAPIService.swift
22.3	Swap 服务	src/background/service/swap.ts	DEX Swap 状态管理	mobile/ios/RabbyMobile/Core/SwapManager.swift (未完成闭环)
22.4	Bridge 服务	src/background/service/bridge.ts	跨链桥状态管理	mobile/ios/RabbyMobile/Core/BridgeManager.swift (未完成闭环)
22.5	TransactionHistory	src/background/service/transactionHistory.ts	交易历史存储	mobile/ios/RabbyMobile/Core/TransactionHistoryManager.swift
22.6	TransactionBroadcastWatcher	src/background/service/transactionBroadcastWatcher.ts	交易广播监听	mobile/ios/RabbyMobile/Core/TransactionBroadcastWatcherManager.swift

#	服务	扩展源码位置	说明	iOS
22.7	TransactionWatcher	src/background/service/transactionWatcher.ts	交易状态监听	mobile/ios/RabbyMobile/Core/TransactionWatcherManager.swift
22.8	Transactions	src/background/service/transactions.ts	交易管理	mobile/ios/RabbyMobile/Core/TransactionManager.swift
22.9	SecurityEngine	src/background/service/securityEngine.ts	安全规则引擎	mobile/ios/RabbyMobile/Core/SecurityEngineManager.swift(规则体系较简化)
22.10	Permission	src/background/service/permission.ts	Dapp权限管理	mobile/ios/RabbyMobile/Core/TransactionWatcherManager.swift (DAppPermissionManager)
22.11	Preference	src/background/service/preference.ts	用户偏好设置	mobile/ios/RabbyMobile/Core/PreferenceManager.swift
22.12	Whitelist	src/background/service/whitelist.ts	白名单管理	mobile/ios/RabbyMobile/Core/WhitelistManager.swift
22.13	ContactBook	src/background/service/contactBook.ts	联系人管理	mobile/ios/RabbyMobile/Core/ContactBookManager.swift
22.14	GasAccount	src/background/service/gasAccount.ts	Gas代付服务	mobile/ios/RabbyMobile/Core/GasAccountManager.swift
22.15	Perps	src/background/service/perps.ts	合约交易服务	mobile/ios/RabbyMobile/Core/PerpsManager.swift (TODO 未对接)
22.16	Lending	src/background/service/lending.ts	借贷服务	mobile/ios/RabbyMobile/Core/LendingManager.swift (读OpenAPI,交易侧未做)
22.17	RPC	src/background/service/rpc.ts	RPC管理	mobile/ios/RabbyMobile/Core/NetworkManager.swift + mobile/ios/RabbyMobile/Core/CustomRPCManager.swift

#	服务	扩展源码位置	说明	iOS
22.18	AutoLock	src/background/service/autoLock.ts	自动锁定服务	mobile/ios/RabbyMobile/Core/AutoLockManager.swift
22.19	SignTextHistory	src/background/service/signTextHistory.ts	签名文本历史	mobile/ios/RabbyMobile/Core/SignHistoryManager.swift
22.20	RabbyPoints	src/background/service/rabbyPoints.ts	积分服务	mobile/ios/RabbyMobile/Core/RabbyPointsManager.swift
22.21	i18n	src/background/service/i18n.ts	国际化服务	mobile/ios/RabbyMobile/Core/RabbyPointsManager.swift (I18nManager；资源缺失见 0.4)
22.22	Session	src/background/service/session.ts	会话管理	mobile/ios/RabbyMobile/Core/WatchGnosisSessionKeyrings.swift (SessionManager)
22.23	Notification	src/background/service/notification.ts	通知服务	mobile/ios/RabbyMobile/Core/NotificationManager.swift (本地通知为主)
22.24	PageStateCache	src/background/service/pageStateCache.ts	页面状态缓存	
22.25	CustomTestnet	src/background/service/customTestnet.ts	自定义测试网服务	mobile/ios/RabbyMobile/Core/CustomTestnetManager.swift
22.26	OfflineChain	src/background/service/offlineChain.ts	离线链检测	
22.27	SyncChain	src/background/service/syncChain.ts	链同步服务	mobile/ios/RabbyMobile/Core/SyncChainManager.swift (链同步策略需核对)
22.28	Widget	src/background/service/widget.ts	Widget 管理	
22.29	UserGuide	src/background/service/userGuide.ts	用户引导状态	mobile/ios/RabbyMobile/Core/RabbyPointsManager.swift (UserGuideManager；未接入 UI)

#	服务	扩展源码位置	说明	iOS
22.30	Misc	src/background/service/misc.ts	杂项服务	mobile/ios/RabbyMobile/Core/RabbyPointsManager.swift (含部分杂项状态)

## 二十三、CommonPopup 资产弹窗模块（扩展端拆解 22 项；iOS 可选择性对齐）- 验证补充

重大遗漏: 该模块约 72 个文件, ~10,438 行代码, 是 Dashboard 资产展示的核心弹窗系统

#	子功能	扩展源码位置	说明	iOS
23.1	CommonPopup 主入口	src/ui/views/CommonPopup/index.tsx	全局弹窗容器	( iOS 以 SwiftUI sheet/NavigationView 组织; 暂无统一 PopupHost )
23.2	AssetList 资产列表	CommonPopup/AssetList/	资产列表主模块	mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift (资产页)
23.3	TokenList 代币列表	CommonPopup/AssetList/TokenList.tsx	代币资产列表	mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift (Token list)
23.4	ChainList 链列表	CommonPopup/AssetList/ChainList.tsx	链资产列表	mobile/ios/RabbyMobile/Views/Assets/ChainBalanceView.swift + mobile/ios/RabbyMobile/Views/Import/HDMangerSwitchViews.swift ( SwitchChainPop up )
23.5	ProtocolList 协议列表	CommonPopup/AssetList/ProtocolList.tsx	DeFi 协议资产列表	mobile/ios/RabbyMobile/Views/Assets/ProtocolPositionView.swift
23.6	Lending 借贷协议模板	CommonPopup/AssetList/Protocols/Lending.tsx	借贷协议展示	mobile/ios/RabbyMobile/Views/Assets/ProtocolPositionView.swift (未按模板拆分)
23.7	Perpetuals 永续合约模板	CommonPopup/AssetList/Protocols/Perpetuals.tsx	永续合约展示	

#	子功能	扩展源码位置	说明	iOS
23.8	Vesting 归属协议模板	CommonPopup/AssetList/Protocols/Vesting.tsx	代币归属展示	
23.9	Reward 奖励协议模板	CommonPopup/AssetList/Protocols/Reward.tsx	奖励展示	
23.10	Locked 锁仓协议模板	CommonPopup/AssetList/Protocols/Locked.tsx	锁仓展示	
23.11	Leveraged 杠杆协议模板	CommonPopup/AssetList/Protocols/Leveraged.tsx	杠杆展示	
23.12	Insurance 保险协议模板	CommonPopup/AssetList/Protocols/Insurance.tsx	保险展示	
23.13	Common 通用协议模板	CommonPopup/AssetList/Protocols/Common.tsx	通用DeFi展示	mobile/ios/RabbyMobile/Views/Assets/ProtocolPositionView.swift (以OpenAPI portfolio数据为准)
23.14	其他7个协议模板	CommonPopup/AssetList/Protocols/	Deposit/Yield/OptionsSeller等	
23.15	CustomAssetList	CommonPopup/AssetList/CustomAssetList.tsx	自定义资产列表	mobile/ios/RabbyMobile/Views/Assets/AddCustomTokenView.swift + mobile/ios/RabbyMobile/Core/TokenManager.swift
23.16	CustomTestnetAssetList	CommonPopup/AssetList/CustomTestnetAssetList.tsx	测试网资产列表	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (CustomTestnetView; 资产列表未对齐)
23.17	CancelApproval	CommonPopup/CancelApproval/	取消授权弹窗	
23.18	CancelConnect	CommonPopup/CancelConnect/	取消连接弹窗	
23.19	SwitchAddress	CommonPopup/SwitchAddress/	切换地址弹窗	mobile/ios/RabbyMobile/Views/Import/HDManagerSwitchViews.swift (SwitchAccount Popup)

#	子功能	扩展源码位置	说明	iOS
23.20	SwitchChain	CommonPopup/SwitchChain/	切换链弹窗	mobile/ios/Rabbymobile/Views/Import/HDManagerSwitchViews.swift ( SwitchChainPopup )
23.21	Ledger/Keystone/OneKey 权限	CommonPopup/Ledger/+Keystone/+OneKey/	硬件钱包权限弹窗	( iOS 暂无对应权限弹窗体系 )
23.22	ImKeyPermission	CommonPopup/ImKeyPermission/	imKey 权限弹窗	

## 二十四、Desktop 桌面端模块（扩展端拆解 18 组；iOS 可忽略/后期选择性迁移）- 验证补充

注意: 以下为桌面端/Desktop App)专用视图，共 ~63,000+ 行代码。iOS 可选择性迁移部分功能。

### 24.1 DesktopLending 借贷 (~77 文件)

#	子功能	扩展源码位置	说明	iOS
24.1.1	DesktopLending 主页	src/ui/views/DesktopLending/index.tsx	借贷主页	
24.1.2	LendingRow (Supply/Borrow)	DesktopLending/components/LendingRow/	供应/借货行项	
24.1.3	SummaryBar	DesktopLending/components/SummaryBar/	借贷摘要栏(HF/净值)	
24.1.4	SupplyModal	DesktopLending/components/SupplyModal/	存入弹窗	
24.1.5	BorrowModal	DesktopLending/components/BorrowModal/	借款弹窗	
24.1.6	RepayModal	DesktopLending/components/RepayModal/	还款弹窗	
24.1.7	WithdrawModal	DesktopLending/components/WithdrawModal/	提取弹窗	
24.1.8	ManageEmodeModal	DesktopLending/components/ManageEmodeModal/	E-Mode管理	
24.1.9	MarketSelector	DesktopLending/components/MarketSelector/	市场选择器(Aave V3 等)	

#	子功能	扩展源码位置	说明	iOS
24.1.10	HealthFactor	DesktopLending/components/HFDescription/	健康因子展示	

## 24.2 DesktopPerps 专业合约 (~70+ 文件)

#	子功能	扩展源码位置	说明	iOS
24.2.1	DesktopPerps 主页	src/ui/views/DesktopPerps/index.tsx	专业合约交易页	
24.2.2	TradingPanel	DesktopPerps/components/TradingPanel/	交易面板(Market/Limit/TWAP/Scale)	
24.2.3	ChartArea	DesktopPerps/components/ChartArea/	K线图区域	
24.2.4	OrderBookTrades	DesktopPerps/components/OrderBookTrades/	订单簿+成交记录	
24.2.5	UserInfoHistory	DesktopPerps/components/UserInfoHistory/	持仓/订单/历史/资金费率	

## 24.3 DesktopProfile 个人中心 (~30+ 文件)

#	子功能	扩展源码位置	说明	iOS
24.3.1	DesktopProfile 主页	src/ui/views/DesktopProfile/index.tsx	桌面端个人中心	
24.3.2	TransactionsTabPane	DesktopProfile/components/TransactionsTabPane/	交易记录标签页	
24.3.3	NFTTabPane	DesktopProfile/components/NFTTabPane/	NFT标签页(Listing/Offer)	

## 二十五、遗漏视图/路由（扩展端拆解 5 项；iOS 对照待逐条回填） - 验证补充

#	子功能	扩展源码位置	说明	iOS
25.1	SortHat 路由分发	src/ui/views/SortHat.tsx	根据 UI 类型(popup/notification/tab)分发路由	
25.2	PreferMetamaskDapps	src/ui/views/PreferMetamaskDapps/	MetaMask偏好Dapp管理	

#	子功能	扩展源码位置	说明	iOS
25.3	QRCodeCheckerDetail	src/ui/views/QRCodeCheckerDetail.tsx	QR码验证详情	
25.4	RequestDeBankTestnetGasToken	src/ui/views/RequestDeBankTestnetGasToken/	测试网Gas水龙头	
25.5	AddressManagement (切换)	src/ui/views/AddressManagement/	地址切换页面(含排序)	

## 二十六、遗漏 UI 组件（扩展端拆解 16 组件；iOS 对照待逐条回填） - 验证补充

#	组件	扩展源码位置	说明	iOS
26.1	AccountSearchInput	src/ui/component/AccountSearchInput/	账户搜索输入框	
26.2	AddAddressOptions	src/ui/component/AddAddressOptions/	添加地址选项	
26.3	AddressList	src/ui/component/AddressList/	地址列表组件	
26.4	AuthenticationModal	src/ui/component/AuthenticationModal/	认证/密码验证弹窗	
26.5	Empty	src/ui/component/Empty/	空状态展示	
26.6	FallbackSiteLogo	src/ui/component/FallbackSiteLogo/	站点Logo回退展示	
26.7	FullscreenContainer	src/ui/component/FullscreenContainer/	全屏容器	
26.8	PortalHost	src/ui/component/PortalHost/	Portal宿主(弹窗挂载点)	
26.9	SendLike	src/ui/component/SendLike/	发送相关组件(AddressInfoFrom/To/ToAddressCard/Slider)	
26.10	SignProcessButton	src/ui/component/SignProcessButton.tsx	签名进度按钮	
26.11	Signal	src/ui/component/Signal.tsx	信号指示器	
26.12	StrayFooter	src/ui/component/StrayFooter.tsx	独立页脚	

#	组件	扩展源码位置	说明	iOS
26.13	StrayHeader	src/ui/component/StrayHeader.tsx	独立页头	
26.14	ExternalSwapBridgeDappPopup	src/ui/component/ExternalSwapBridgeDappPopup/	外部Swap/Bridge Dapp 弹窗	
26.15	CexSelect	src/ui/component/CexSelect/	中心化交易所选择	
26.16	RateModal	src/ui/component/RateModal/	评分引导弹窗	

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## 二十七、遗漏后台服务（扩展端拆解 4 项；iOS 对照待逐条回填） - 验证补充

#	服务	扩展源码位置	说明	iOS
27.1	MetaMaskMode Service	src/background/service/metamaskModeService.ts	MetaMask兼容模式服务	可选 ( iOS DAppBrowser 可实现类似“需要 MetaMask 兼容模式”的站点列表逻辑 )
27.2	InnerDappFrame Service	src/background/service/innerDappFrame.ts	内嵌Dapp框架服务	N/A ( iOS 无 iframe/frame 概念 )
27.3	HDKeyRingLastAddAddrTime	src/background/service/HDKeyRingLastAddAddrTime.ts	HD钱包最后添加地址时间	( iOS 未实现；如需与扩展一致的引导/提示可补 )
27.4	UnTriggerTxCounter	src/background/service/unTriggerTxCounter.ts	未触发交易计数器	N/A ( 偏扩展统计/触发计数逻辑 )

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## 二十八、遗漏 Hooks（扩展端拆解 8 项；iOS 不适用） - 验证补充

#	Hook	扩展源码位置	说明	iOS
28.1	useAccount (backgroundState)	src/ui/hooks/backgroundState/useAccount.ts	当前账户状态	N/A ( iOS 无 React Hooks；用 Observable Object/Combine 替代 )
28.2	miniSignGasStore	src/ui/hooks/miniSignGasStore.tsx	迷你签名Gas状态存储	N/A
28.3	useEnterPassphraseModal	src/ui/hooks/useEnterPassphraseModal.ts	输入密码短语弹窗	N/A
28.4	useMiniApprovalDirectSign	src/ui/hooks/useMiniApprovalDirectSign.tsx	迷你审批直接签名	N/A

#	Hook	扩展源码位置	说明	iOS
28.5	useGnosisPendingMessages	src/ui/hooks/useGnosisPendingMessages.ts	Gnosis待处理消息	N/A
28.6	useSyncGnosisNetworks	src/ui/hooks/useSyncGnosisNetworks.ts	同步Gnosis网络	N/A
28.7	contextState	src/ui/hooks/contextState.tsx	上下文状态管理	N/A
28.8	useIframeBridge	src/ui/hooks/useIframeBridge.ts	iframe通信桥接	N/A ( iOS 用 WKWebView bridge/URLSession )

## 总结统计 (以本仓库 mobile/ios/ 为准)

说明：本文件前半部分的「414+ 子功能」用于扩展端对标拆解；iOS 列已按本仓库 mobile/ios/ 逐条回填（ / / ），用于快速盘点覆盖与缺口（20/21/25-28 等“组件/Hooks/遗漏项”仍可按需继续补齐）。

模块分类	扩展子功能数(参考)	iOS(本仓库)	iOS 对应实现
Dashboard 主页	16	部分实现	mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
发送/接收	12	部分实现	mobile/ios/RabbyMobile/Views/Send/SendTokenView.swift + mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
DEX Swap	14	骨架	mobile/ios/RabbyMobile/Core/SwapManager.swift + mobile/ios/RabbyMobile/Views/Swap/SwapView.swift
Bridge 跨链桥	12	骨架	mobile/ios/RabbyMobile/Core/BridgeManager.swift + mobile/ios/RabbyMobile/Views/Bridge/BridgeView.swift
Perps 合约交易	19	骨架	mobile/ios/RabbyMobile/Core/PerpsManager.swift
GasAccount	10	部分实现	mobile/ios/RabbyMobile/Core/GasAccountManager.swift + mobile/ios/RabbyMobile/Views/More/GasAccountView.swift

模块分类	扩展子功能数(参考)	iOS(本仓库)	iOS 对应实现
交易历史	8	部分实现	mobile/ios/RabbyMobile/Core/TransactionManager.swift + mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift
NFT	6	部分实现	mobile/ios/RabbyMobile/Core/NFTManager.swift + mobile/ios/RabbyMobile/Views/NFT/NFTView.swift
授权管理 ( 查看/撤销 )	7	部分实现	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift ( TokenApprovalView ) + mobile/ios/RabbyMobile/Views/More/MiscViews.swift ( NFTApprovalView )
交易审批/签名引擎	54	部分实现	mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift + mobile/ios/RabbyMobile/Core/SecurityEngineManager.swift + mobile/ios/RabbyMobile/Core/EthereumUtils.swift
账户创建/导入	16	部分实现	mobile/ios/RabbyMobile/Views/Wallet/ + mobile/ios/RabbyMobile/Views/Import/
新用户引导	14	部分实现	mobile/ios/RabbyMobile/Views/RootView.swift ( OnboardingView ) + mobile/ios/RabbyMobile/Core/RabbyPointsManager.swift ( UserGuideManager 未接 UI )
硬件钱包	8	部分实现	mobile/ios/RabbyMobile/Core/HardwareWallet + mobile/ios/RabbyMobile/Views/HardwareWallet/LedgerConnectView.swift
多签/协议钱包	5	骨架	mobile/ios/RabbyMobile/Core/WatchGnosisSessionKeyrings.swift
设置/管理	20	部分实现	mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift

模块分类	扩展子功能数(参考)	iOS(本仓库)	iOS 对应实现
Rabby Points	5	基本可用	mobile/ios/RabbyMobile/Views/More/MiscViews.swift
DApp 浏览器/生态	7/4	部分实现	mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift
后台服务层	30	部分实现	mobile/ios/RabbyMobile/Core/
i18n/资源	-		locales/fonts/品牌资源待补

## iOS 适配需额外开发的功能 ( 扩展没有 / 或需要原生化 )

#	功能	说明	状态	iOS 对应实现
A1	生物识别 (Face ID / Touch ID)	替代扩展的密码解锁		mobile/ios/RabbyMobile/Core/BiometricAuthManager.swift
A2	推送通知	交易状态推送(替代扩展的后台轮询)		mobile/ios/RabbyMobile/Core/NotificationManager.swift (本地通知/注册 APNs，缺后端推送闭环)
A3	深度链接 (Deep Link)	WalletConnect/Dapp跳转		mobile/ios/RabbyMobile/RabbyMobileApp.swift (已处理 wc/rabbywallet scheme，但 WC pairing 未完成)
A4	硬件钱包蓝牙连接	iOS通过BLE连接 Ledger等(替代USB/WebHID)		mobile/ios/RabbyMobile/Core/HardwareWallet/BluetoothManager.swift + mobile/ios/RabbyMobile/Core/HardwareWallet/LedgerKeyring.swift
A5	Keychain 安全存储	iOS Keychain替代浏览器本地存储		mobile/ios/RabbyMobile/Core/StorageManager.swift
A6	App内浏览器 (DApp Browser)	替代扩展的content-script注入		mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift (provider/签名请求仍需补齐)

#	功能	说明	状态	iOS 对应实现
A7	相机扫码	原生相机扫描QR码		(当前仅二维码生成；需新增 AVCapture scanner)
A8	手势导航	iOS原生手势(滑动返回等)		由 iOS 系统/SwiftUI NavigationStack 支持
A9	离线签名	无网络时的签名能力		已有签名能力，但需先修复 0.3 的派生/签名规则一致性问题
A10	Widget / App Clips	iOS桌面组件/轻应用		(未实现)

最终结论 (2026-02-13 更新)：iOS 端已存在可运行的 SwiftUI 钱包骨架与部分功能页，但与扩展一致性的 P0 问题 (BIP44 派生、EIP-155/typed-tx v 值、EIP-712、WalletConnect、EIP-1559 fee 等) 未修复前，整体仍处于“可演示但不可对外发布”的阶段。建议先完成本文 0.3 P0 修复 + 0.4 资源补齐，再按 Phase 1-3 补齐导入/资产/发送闭环，最后再追求 CommonPopup/桌面端等 1:1 细节。

## iOS 开发清单 - 分阶段任务排期

扩展钱包源码量: UI 层 ~232,000 行, 后台服务 ~26,000 行, 组件库 ~24,000 行, Desktop 桌面端 ~63,000 行  
(验证补充)

预计 iOS 端总代码量: ~180,000 行 (去除浏览器扩展特有逻辑，新增 iOS 原生适配; 不含可选 Desktop 功能)

### 阶段〇：项目基建 (Phase 0)

所有后续开发的基础，必须最先完成

#### P0-1 项目架构搭建

- [x] 确定技术栈: SwiftUI 原生 (本仓库已落地) - mobile/ios/RabbyMobile/
- [x] 初始化 iOS 项目工程，配置 Xcode / CocoaPods - mobile/ios/RabbyMobile.xcodeproj + mobile/ios/Podfile
- [] 配置 CI/CD 管线 (TestFlight 自动打包)
- [x] 接入 SwiftLint (Debug) - mobile/ios/Podfile
- [] 接入 Sentry / Crash 监控 (iOS 原生)

#### P0-2 共享层迁移

- [] 迁移 packages/shared 类型定义 (Chain, Token, Account, NFT, SwapQuote 等)
- [] 迁移 packages/shared 常量 (KEYRING\_TYPE, HARDWARE\_BRANDS, RPC\_METHODS 等)
- [] 迁移 packages/shared 工具函数 (address.ts, string.ts, scan.ts, url.ts)
- [] 适配 packages/ui 主题系统 (lightTheme/darkTheme iOS 适配)

## P0-3 核心服务层搭建

- [x] 搭建 API Client 层 - 对接 Rabby OpenAPI - mobile/ios/RabbyMobile/Core/OpenAPIService.swift
- [x] 搭建本地存储方案 - iOS Keychain (敏感数据) + UserDefaults(偏好) - mobile/ios/RabbyMobile/Core/StorageManager.swift
- [x] 搭建加密/签名基础能力 ( correctness 见 0.3 ) - mobile/ios/RabbyMobile/Utils/Keccak256.swift + mobile/ios/RabbyMobile/Utils/Secp256k1Helper.swift
- [x] 搭建 i18n 框架 ( 资源缺失见 0.4 ) - mobile/ios/RabbyMobile/Core/RabbyPointsManager.swift
- [x] 搭建全局状态管理 ( ObservableObject/Combine ) - mobile/ios/RabbyMobile/Core/ + mobile/ios/RabbyMobile/Views/

## P0-4 基础 UI 组件库

- [x] Navigation / Header ( NavigationView + Toolbar ) - iOS 原生 ( 各页面 NavigationView { ... } )
- [x] 底部导航 TabBar ( Assets/Swap/DApps/Histroy/Settings ) - mobile/ios/RabbyMobile/Views/RootView.swift
- [x] Loading / Spin ( ProgressView ) - iOS 原生
- [x] Sheet / Modal / Alert ( .sheet / .alert ) - iOS 原生
- [x] ThemeMode ( Light/Dark/System ) - mobile/ios/RabbyMobile/Core/PreferenceManager.swift + mobile/ios/RabbyMobile/RabbyMobileApp.swift + mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift
- [x] 地址缩略显示/复制 ( 多处已实现 ) - mobile/ios/RabbyMobile/Views/Assets/AssetView.swift + mobile/ios/RabbyMobile/Views/AddressDetail/AddressDetailView.swift
- [x] 远程图标加载与缓存 ( Token/Chain/NFT ) - mobile/ios/RabbyMobile/Utils/ImageCacheManager.swift + mobile/ios/RabbyMobile/Utils/CryptoIconProvider.swift
- [ ] 离线资源兜底 ( 品牌/空状态/硬件钱包/链图标/token 兜底 ) - 见 0.4 ( 需补 mobile/ios/RabbyMobile/Images.xcassets )

Phase 0 产出: 可编译运行的 iOS App ( Onboarding/Unlock/MainTab ) + Core services ( Storage/OpenAPI/Chain/RPC ) + 基础页面骨架

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## 阶段一：账户系统 (Phase 1) - 最高优先级

钱包的入口，没有账户系统其他功能均无法使用  
参考代码量: 新用户引导 ~3,400 行, Keyring ~6,200 行, 偏好设置 ~965 行

### P1-1 密钥管理核心 (Keyring Service)

- [x] HD Keyring - 助记词生成/派生地址 - mobile/ios/RabbyMobile/Core/KeyringManager.swift ( BIP44 correctness 见 0.3 )
- [x] Simple Keyring - 私钥导入 - mobile/ios/RabbyMobile/Core/KeyringManager.swift
- [x] Watch Address Keyring - 观察地址 - mobile/ios/RabbyMobile/Core/WatchGnosisSessionKeyrings.swift

- [x] 密码加密存储 - AES-GCM + PBKDF2 - mobile/ios/RabbyMobile/Core/StorageManager.swift
- [x] iOS Keychain 安全存储 - 替代 chrome.storage.local - mobile/ios/RabbyMobile/Core/StorageManager.swift
- [x] Preference 服务 ( 主题/语言/当前账户/隐藏地址等 ) - mobile/ios/RabbyMobile/Core/PreferenceManager.swift
- [ ] Keystore(JSON) 导入 ( scrypt/pbkdf2 + AES-128-CTR ) - mobile/ios/RabbyMobile/Core/KeyringManager.swift
- [ ] 补齐更多 keyring 类型接入 ( Ledger/Gnosis/WC 等 ) - mobile/ios/RabbyMobile/Core/KeyringManager.swift

## P1-2 欢迎/注册流程

- [x] Onboarding/Welcome ( 创建/导入入口 ) - mobile/ios/RabbyMobile/Views/RootView.swift
- [x] CreateWallet ( 设置密码 + 生成/备份/验证助记词 ) - mobile/ios/RabbyMobile/Views/Wallet/CreateWalletView.swift
- [x] ImportWallet ( 助记词/私钥导入 ) - mobile/ios/RabbyMobile/Views/Wallet/ImportWalletView.swift
- [ ] Watch-only 引导入口 ( Onboarding 按钮目前未接入流程 ) - mobile/ios/RabbyMobile/Views/RootView.swift

## P1-3 新用户引导 (New User Import)

- [x] 创建助记词 + 备份验证 - mobile/ios/RabbyMobile/Views/Wallet/CreateWalletView.swift
- [x] 导入方式选择 ( seed/privateKey/watch ) - mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift
- [x] 选择派生地址 - mobile/ios/RabbyMobile/Views/Import>SelectAddressView.swift
- [x] 导入成功页 ( 从 seed 添加地址 ) - mobile/ios/RabbyMobile/Views/Import/ImportSuccessAddFromSeedView.swift

## P1-4 老用户导入流程

- [x] 导入私钥/助记词 - mobile/ios/RabbyMobile/Views/Wallet/ImportWalletView.swift
- [x] 导入/添加地址入口 ( seed/privateKey/watch ) - mobile/ios/RabbyMobile/Views/Import/ImportOptionsView.swift
- [x] 选择地址 ( 派生列表 ) - mobile/ios/RabbyMobile/Views/Import>SelectAddressView.swift
- [ ] 导入 JSON Keystore - mobile/ios/RabbyMobile/Core/KeyringManager.swift ( 未实现 )

## P1-5 解锁/锁定

- [x] UnlockView ( 密码解锁 ) - mobile/ios/RabbyMobile/Views/RootView.swift
- [x] Face ID / Touch ID 生物识别解锁 - mobile/ios/RabbyMobile/Core/BiometricAuthManager.swift
- [x] ForgotPasswordView - mobile/ios/RabbyMobile/Views/More/MiscViews.swift
- [x] AutoLock 自动锁定服务 - mobile/ios/RabbyMobile/Core/AutoLockManager.swift

## 阶段二 : Dashboard 主页 (Phase 2)

钱包主界面 , 用户打开 App 第一个看到的页面

参考代码量: Dashboard ~12,235 行

### P2-1 Dashboard 核心

- [x] 资产首页主入口 ( iOS 使用 AssetsView , 而非 Dashboard TS 结构 ) -  
mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
- [x] Header ( 账户名/地址/复制/链选择 ) - mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
- [x] 账户切换弹窗 ( SwitchAccountPopup ) - mobile/ios/RabbyMobile/Views/Import/HDManagerSwitchViews.swift
- [x] 切换链弹窗 ( SwitchChainPopup ) - mobile/ios/RabbyMobile/Views/Import/HDManagerSwitchViews.swift
- [ ] 连接状态指示器 ( Dashboard Header 级别 ) - iOS 暂未做独立组件 ( 可基于 DAppPermissionManager 补齐 )

### P2-2 资产展示

- [x] 总资产展示 ( Total Balance ) - mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
- [x] 资产曲线 ( BalanceCurveView ) - mobile/ios/RabbyMobile/Views/Assets/BalanceCurveView.swift
- [x] 各链资产分布 ( ChainBalanceView ) - mobile/ios/RabbyMobile/Views/Assets/ChainBalanceView.swift
- [x] 代币列表 + 搜索 + 详情页 - mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift + mobile/ios/RabbyMobile/Views/Assets/TokenDetailView.swift
- [x] DeFi 仓位列表 ( ProtocolPositionView ) - mobile/ios/RabbyMobile/Views/Assets/ProtocolPositionView.swift
- [x] NFT 资产展示 ( NFTGalleryView/NFTDetailView ) -  
mobile/ios/RabbyMobile/Views/Assets/NFTGalleryView.swift
- [ ] TokenChart ( 代币价格图表 ) - iOS 暂无对标组件

### P2-3 功能面板

- [x] 快捷操作 ( Send/Receive/Import/SwitchChain/Pending badge ) -  
mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
- [x] 底部主导航 ( Assets/Swap/DApps/History/Settings ) -  
mobile/ios/RabbyMobile/Views/RootView.swift
- [ ] 可拖拽排序的入口网格 ( DashboardPanel 1:1 ) - iOS 暂未实现

### P2-4 Dashboard 辅助模块

- [x] GasPriceBar ( 实时 Gas 价格 ) - mobile/ios/RabbyMobile/Views/Assets/GasPriceBarView.swift

- [x] Token 详情 ( 页面式 , 不是 popup ) - mobile/ios/RabbyMobile/Views/Assets/TokenDetailView.swift
- [x] PendingTxs 待处理交易提示 ( badge ) - mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
- [x] 交易审批页风险提示 ( Security Check ) - mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift
- [ ] Dashboard 级别 “ 安全状态 ” 独立组件 - iOS 暂未对齐扩展结构

Phase 2 产出: 用户可查看资产总额、各链余额、代币列表、Gas 价格 ( 仍需先完成 0.3 P0 修复 , 确保派生/签名/fee 规则正确 )

## P2-5 CommonPopup 资产弹窗系统 验证补充

扩展端 CommonPopup 是 “ 桌面端全局弹窗容器 ” 。 iOS 端当前以 页面/Sheet 为主 , 不建议 1:1 复刻 ; 如需对齐交互 , 再考虑做统一的 PopupHost 。

- [x] TokenList ( 代币列表 ) - mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
- [x] ChainList ( 各链资产/链切换 ) - mobile/ios/RabbyMobile/Views/Assets/ChainBalanceView.swift + mobile/ios/RabbyMobile/Views/Import/HDManagerSwitchViews.swift
- [x] ProtocolList ( DeFi 协议资产 ) - mobile/ios/RabbyMobile/Views/Assets/ProtocolPositionView.swift
- [x] SwitchAddress ( 切换地址弹窗 ) - mobile/ios/RabbyMobile/Views/Import/HDManagerswitchViews.swift
- [ ] CancelApproval/CancelConnect 等 “ 弹窗体系 ” 能力 - iOS 暂未实现
- [ ] 硬件钱包权限弹窗 ( Ledger/Keystone/OneKey/ImKey ) - iOS 暂未实现 ( 仅有 Ledger 连接页骨架 )

## 阶段三 : 发送/接收 (Phase 3)

钱包最核心的交易功能

参考代码量: SendToken ~3,304 行

### P3-1 接收

- [x] ReceiveView ( QR 码 + 地址 + 复制 ) - mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
- [x] 二维码生成 ( CoreImage ) - mobile/ios/RabbyMobile/Views/Assets/AssetsView.swift
- [ ] 相机扫码 ( Scan QR ) - mobile/ios/RabbyMobile/Views/More/GasAccountView.swift ( 入口已存在 , 需补 scanner )

### P3-2 发送代币

- [x] SendTokenView ( 含代币选择/联系人/白名单/Gas 估算 ) - mobile/ios/RabbyMobile/Views/Send/SendTokenView.swift
- [x] TokenSelectorSheet ( 选择代币 ) - mobile/ios/RabbyMobile/Views/Send/SendTokenView.swift
- [x] ContactPickerSheet ( 选择联系人地址 ) - mobile/ios/RabbyMobile/Views/Send/SendTokenView.swift

- [x] MaxButton ( 最大金额 ) - mobile/ios/RabbyMobile/Views/Send/SendTokenView.swift
- [ ] ReserveGas / PreExec 解释 ( 扩展特性 ) - iOS 暂未对齐

### P3-3 地址选择

- [x] 联系人地址选择 ( ContactPickerSheet ) - mobile/ios/RabbyMobile/Views/Send/SendTokenView.swift
- [x] ContactBookManager ( 联系人服务 ) - mobile/ios/RabbyMobile/Core/ContactBookManager.swift
- [x] 地址风险基础校验 ( whitelist/黑名单规则 ) - mobile/ios/RabbyMobile/Core/WhitelistManager.swift + mobile/ios/RabbyMobile/Core/SecurityEngineManager.swift
- [ ] ENS/地址解析 ( 对标 useParseAddress ) - iOS 暂未实现

### P3-4 白名单

- [x] WhitelistInputView ( 白名单输入 UI ) - mobile/ios/RabbyMobile/Views/Settings/WhitelistInputView.swift
- [x] WhitelistManager ( 白名单服务 ) - mobile/ios/RabbyMobile/Core/WhitelistManager.swift

### P3-5 发送 NFT

- [x] SendNFTView ( ERC721/1155 发送 UI ) - mobile/ios/RabbyMobile/Views/NFT/NFTView.swift
- [ ] ERC1155 transfer calldata 完整编码 ( 当前省略实现 ) - mobile/ios/RabbyMobile/Core/NFTManager.swift

### P3-6 交易核心服务

- [x] TransactionManager ( 交易构建/发送/加速/取消/本地 pending/completed ) - mobile/ios/RabbyMobile/Core/TransactionManager.swift
- [x] TransactionHistoryManager - mobile/ios/RabbyMobile/Core/TransactionHistoryManager.swift
- [x] TransactionWatcherManager - mobile/ios/RabbyMobile/Core/TransactionWatcherManager.swift
- [x] TransactionBroadcastWatcherManager - mobile/ios/RabbyMobile/Core/TransactionBroadcastWatcherManager.swift
- [ ] EIP-1559 fee 取值与签名规则修复 ( 见 0.3 ) - mobile/ios/RabbyMobile/Core/TransactionManager.swift

Phase 3 产出: 用户可发送/接收代币和NFT , 管理联系人和白名单 ( 上线前需先完成 0.3 P0 修复 )

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## 阶段四 : 交易审批/签名引擎 (Phase 4) - 最复杂模块

所有交易操作的核心 , 所有 DeFi 功能依赖此模块  
扩展端参考 : Approval ~38,648 行 ( 本阶段 “是否可上线” 取决于 correctness 与请求覆盖 )

### P4-1 iOS 交易审批 ( SignTx )

- [x] TransactionApprovalView (交易审批页 + Gas 设置 + 基础风险列表) - mobile/ios/RabbyMobile/Views/Approval/TransactionApprovalView.swift
- [x] SecurityEngineManager (交易风险检查) - mobile/ios/RabbyMobile/Core/SecurityEngineManager.swift
- [ ] BalanceChange 余额变化预览 (对齐扩展 BalanceChange 体验) - iOS 暂无 (需对接 OpenAPI 或本地解析)
- [ ] Action 解析 (Send/Approve/Swap/Bridge/NFT 等“读得懂的交易摘要”) - iOS 暂无 (当前以基础字段展示为主)

#### P4-2 iOS 消息签名 (personal\_sign)

- [ ] MessageApprovalView (SignText) - iOS 暂无 (需新增 View)
- [ ] DAppBrowser personal\_sign 请求处理 - mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift (handleSignMessage 为空)
- [ ] 签名历史写入 (从 DAppBrowser/WC 写入记录) - mobile/ios/RabbyMobile/Core/SignHistoryManager.swift

#### P4-3 iOS TypedData 签名 (EIP-712)

- [ ] TypedDataApprovalView (SignTypedData) - iOS 暂无 (需新增 View)
- [ ] EIP-712 TypedData 编码实现 - mobile/ios/RabbyMobile/Core/EthereumUtils.swift (notImplemented)
- [ ] TypedData 可读化预览 (domain/primaryType/fields) - iOS 暂无

#### P4-4 correctness (上线阻断，必须先修)

- [ ] BIP44 子私钥派生修复 - mobile/ios/RabbyMobile/Core/BIP44.swift
- [ ] EIP-155 / typed-tx v 值修复 - mobile/ios/RabbyMobile/Utils/Secp256k1Helper.swift  
+ mobile/ios/RabbyMobile/Core/EthereumUtils.swift
- [ ] EIP-1559 fee 计算修复 (baseFee 取值) - mobile/ios/RabbyMobile/Core/TransactionManager.swift
- [ ] Tx 构建 nonce/gas/fee 统一与校验 - mobile/ios/RabbyMobile/Core/TransactionManager.swift  
+ mobile/ios/RabbyMobile/Core/NetworkManager.swift

#### P4-5 DApp 权限/请求类型 (Connect/SwitchChain/AddChain 等)

- [x] DAppPermissionManager 数据结构 - mobile/ios/RabbyMobile/Core/TransactionWatcherManager.swift
- [x] ConnectedSites 管理页 - mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (ConnectedSitesView)
- [ ] DApp connect 授权弹窗 (允许/拒绝/记住站点) - iOS 暂无 (目前 eth\_requestAccounts 自动返回账户)
- [ ] wallet\_addEthereumChain / wallet\_watchAsset 等请求 - iOS 暂未支持
- [x] wallet\_switchEthereumChain (切链) - mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift

Phase 4 产出: iOS 端可完整处理 DApp/WalletConnect 的交易 + 消息签名请求 (含安全检查) 并正确签名/广播 (依赖 0.3 P0 修复)

## 阶段五：DEX Swap + Bridge (Phase 5)

DeFi 核心交易功能

参考代码量: Swap ~7,097 行, Bridge ~6,195 行

### P5-1 Swap 兑换

- [x] SwapView ( UI 骨架 ) - mobile/ios/RabbyMobile/Views/Swap/SwapView.swift ( 缺 token selector/sheet 与 slippage sheet )
- [x] SwapManager ( quotes/approve/execute ) - mobile/ios/RabbyMobile/Core/SwapManager.swift ( user\_address 未传、nonce/gas 默认值需修 )
- [] TokenSelectorSheet ( From/To 代币选择 + 搜索 + 最近使用 ) - iOS 暂无 ( 建议基于 mobile/ios/RabbyMobile/Core/TokenManager.swift )
- [] Slippage 设置 Sheet ( Auto/自定义 ) - iOS 暂无 ( SwapView 已有 showSlippageSheet 状态 )
- [] Approve Swap 两步流程 ( needApprove handling ) - iOS 暂未贯通 ( SwapManager 已有 approveToken + needApproval error )
- [] Swap tx 构建/签名/广播闭环 ( nonce/fee/EIP1559 ) - 依赖 Phase 4 correctness ( 0.3 ) - mobile/ios/RabbyMobile/Core/SwapManager.swift + mobile/ios/RabbyMobile/Core/TransactionManager.swift
- [] Swap 历史/待处理在 Swap 页展示 ( 对齐扩展体验 ) - 可复用 mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift

### P5-2 Bridge 跨链桥

- [x] BridgeView ( UI 骨架 ) - mobile/ios/RabbyMobile/Views/Bridge/BridgeView.swift
- [x] BridgeManager ( quotes/status ) - mobile/ios/RabbyMobile/Core/BridgeManager.swift ( executeBridge 签名/发送未完成 )
- [] Bridge 执行闭环 ( approve buildTx sign send ) - mobile/ios/RabbyMobile/Core/BridgeManager.swift
- [] Bridge 历史/状态跟踪闭环 ( post + status polling/confirm ) - mobile/ios/RabbyMobile/Core/TransactionHistoryManager.swift + mobile/ios/RabbyMobile/Core/TransactionWatcherManager.swift
- [] Bridge 聚合器筛选 UI ( selectedAggregators ) - mobile/ios/RabbyMobile/Core/BridgeManager.swift ( UI 未实现 )

Phase 5 产出: 用户可进行 DEX Swap 兑换和跨链桥转账 ( 依赖 Phase 4 correctness + approval 请求覆盖 )

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## 阶段六：交易历史 + 授权管理 (Phase 6)

参考代码量: History ~713 行, TransactionHistory ~大量, TokenApproval ~527 行, NFTApproval ~644 行

### P6-1 交易历史

- [x] TransactionHistoryView ( 列表 + 过滤 tabs ) - mobile/ios/RabbyMobile/Views/History/TransactionHistoryView.swift
- [x] TransactionHistoryManager ( 本地历史/分组/Swap&Bridge 子历史 ) - mobile/ios/RabbyMobile/Core/TransactionHistoryManager.swift
- [] 过滤诈骗交易 ( is\_scam ) - iOS 暂无 ( 扩展端有开关 )

- [ ] Tx 详情页 (含 Explorer/Cancel/SpeedUp/Explain) - iOS 暂无 (核心方法在 mobile/ios/RabbyMobile/Core/TransactionManager.swift)
- [ ] Cancel/SpeedUp UI (对标 CancelTxPopup 等) - iOS 暂无

## P6-2 签名历史 & 活动

- [x] SignedTextHistoryView (签名文本历史 UI) - mobile/ios/RabbyMobile/Views/More/MiscViews.swift
- [x] SignHistoryManager (签名历史存储) - mobile/ios/RabbyMobile/Core/SignHistoryManager.swift
- [x] ActivitiesView (活动记录页) - mobile/ios/RabbyMobile/Views/Activities/ActivitiesView.swift
- [ ] DAppBrowser/WC 写入签名历史闭环 - 依赖 Phase 4 (personal\_sign / typedData)

## P6-3 Token 授权管理

- [x] TokenApprovalView (入口 + 列表骨架) - mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift (未完整对接 OpenAPI/撤销)
- [ ] 授权详情 + 撤销闭环 - iOS 暂无 (需对接 OpenAPI revoke & Approval Tx 构建)

## P6-4 NFT 授权管理

- [x] NFTApprovalView (基础列表) - mobile/ios/RabbyMobile/Views/More/MiscViews.swift
- [ ] 按合约分组/撤销授权/搜索 - iOS 暂无 (扩展端能力)

Phase 6 产出: 用户可查看交易/签名历史, 管理 Token/NFT 授权 (TokenApproval revoke 闭环待补)

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## 阶段七 : NFT + 资产浏览 (Phase 7)

参考代码量: NFTView ~504 行

## P7-1 NFT 浏览

- [x] NFTView 主页 (合集/详情/发送入口) - mobile/ios/RabbyMobile/Views/NFT/NFTView.swift
- [x] 资产页内 NFT Gallery (列表/搜索/详情) - mobile/ios/RabbyMobile/Views/Assets/NFTGalleryView.swift + mobile/ios/RabbyMobile/Views/Assets/NFTDetailView.swift
- [x] NFTManager (数据加载/发送入口) - mobile/ios/RabbyMobile/Core/NFTManager.swift (ERC1155 calldata 仍需补齐, 见 Phase 3)
- [ ] 空状态插图/骨架屏资源 (体验对齐) - 见 0.4 (可选)

Phase 7 产出: 用户可浏览 NFT 合集

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## 阶段八 : 设置 + 地址管理 (Phase 8)

参考代码量: ManageAddress ~1,052 行, AddressDetail ~1,175 行, Settings ~1,605 行

## P8-1 设置面板

- [x] SettingsView ( 设置入口 + 主配置项 ) - mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift
- [x] LockWallet ( 锁定钱包 ) - mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift + mobile/ios/RabbyMobile/Core/AutoLockManager.swift
- [x] AutoLock ( 自动锁定时间 ) - mobile/ios/RabbyMobile/Core/AutoLockManager.swift + mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift
- [x] SwitchLang / ThemeMode / Currency ( 语言/主题/货币 ) -  
mobile/ios/RabbyMobile/Core/PreferenceManager.swift +  
mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift ( i18n JSON 资源缺失见 0.4 )
- [x] Face ID / Touch ID 开关 - mobile/ios/RabbyMobile/Core/BiometricAuthManager.swift + mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift
- [ ] ClearPending ( 清除 pending/重置账户 ) - iOS 暂无 ( 可基于  
mobile/ios/RabbyMobile/Core/TransactionManager.swift 补齐 )
- [ ] PwdForNonWhitelisted / DappAccount mode ( 扩展特性 ) - iOS 暂未对齐
- [x] Version ( 版本信息展示 ) - mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift ( 当前写死 0.93.77 )
- [ ] FollowUs ( 社交媒体链接 ) - iOS 暂无

## P8-2 地址管理

- [x] AddressManagementView ( 地址列表/切换/移除 ) -  
mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift
- [x] AddressDetailView ( 地址详情/别名/移除/备份入口 ) -  
mobile/ios/RabbyMobile/Views/AddressDetail/AddressDetailView.swift
- [x] AddressBackupView ( 助记词/私钥备份 ) - mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift
- [x] 删除确认弹窗 ( Remove Address ) - mobile/ios/RabbyMobile/Views/AddressDetail/AddressDetailView.swift
- [ ] SeedPhraseDelete ( 删除种子/删除全部地址 ) - iOS 暂无 ( 当前仅支持移除单地址 )
- [x] GnosisQueueView ( 多签队列页 ) - mobile/ios/RabbyMobile/Views/Settings/GnosisQueueView.swift ( 数据闭环待核实 )

## P8-3 链管理

- [x] ChainListView ( 链列表 ) - mobile/ios/RabbyMobile/Views/More/GasAccountView.swift
- [x] CustomRPCView ( 自定义 RPC 配置页 ) - mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift
- [x] CustomRPCManager ( 自定义 RPC 数据 ) - mobile/ios/RabbyMobile/Core/CustomRPCManager.swift
- [x] CustomTestnetView ( 自定义测试网配置页 ) - mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift
- [x] CustomTestnetManager ( 测试网数据 ) - mobile/ios/RabbyMobile/Core/CustomTestnetManager.swift

- [x] SyncChainManager (链数据同步) - mobile/ios/RabbyMobile/Core/SyncChainManager.swift
- [x] AdvancedSettingsView (高级设置页) - mobile/ios/RabbyMobile/Views/More/LendingPerpsAdvancedView.swift

Phase 8 产出: 完整的设置中心 + 地址管理 + 链/RPC 配置

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## 阶段九 : GasAccount + Perps (Phase 9)

参考代码量: GasAccount ~3,712 行, Perps ~13,148 行

### P9-1 Gas 代付

- [x] GasAccountView (入口 + 列表骨架) - mobile/ios/RabbyMobile/Views/More/GasAccountView.swift (多数交互为占位)
- [x] GasAccountManager (数据/接口封装) - mobile/ios/RabbyMobile/Core/GasAccountManager.swift
- [] 登录签名流程 (LoginCard/SignIn) - iOS 暂无 (需对齐扩展“Gas 登录”能力)
- [] Deposit/Withdraw 闭环 (充值/提现) - iOS 暂无 (当前 deposit 为占位)
- [] Gas 使用历史对接 (真实数据 + 分页) - iOS 暂未对齐
- [] 相机扫码 (WalletConnect URI/地址/充值二维码) - iOS 暂无 (见 0.3 与 Phase 12)

### P9-2 Perps 合约交易

- [x] PerpsView (UI 骨架: Trade/Positions/Orders) - mobile/ios/RabbyMobile/Views/More/LendingPerpsAdvancedView.swift (PerpsView)
- [x] PerpsManager (本地 store + 下单骨架) - mobile/ios/RabbyMobile/Core/PerpsManager.swift (API/仓位/订单均为 TODO)
- [] 对接 Perps API (positions/orders/markets/agent wallet) - mobile/ios/RabbyMobile/Core/PerpsManager.swift
- [] 风险等级/弹窗体系/邀请/新手流程等 (扩展端 13+ 弹窗) - iOS 暂未实现

Phase 9 产出: Gas 代付 + 合约交易功能完成

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## 阶段十 : 硬件钱包 + WalletConnect (Phase 10)

参考代码量: HDManager ~3,206 行

### P10-1 硬件钱包连接

- [x] LedgerConnectView (连接入口 UI) - mobile/ios/RabbyMobile/Views/HardwareWallet/LedgerConnectView.swift
- [x] BluetoothManager (BLE 管理) - mobile/ios/RabbyMobile/Core/HardwareWallet/BluetoothManager.swift
- [x] LedgerKeyring (Ledger Keyring 骨架) - mobile/ios/RabbyMobile/Core/HardwareWallet/LedgerKeyring.swift
- [] Keystone/OneKey/Trezor/ImKey 等 (扩展端全套硬件) - iOS 暂未实现

- [ ] QRCodeReader ( 扫码组件 ) - iOS 暂无 ( Phase 12 : AVFoundation )

## P10-2 HD Manager

- [x] 账户切换/链切换 Sheet ( 部分对标 ) - mobile/ios/RabbyMobile/Views/Import/HDManagerSwitchViews.swift
- [ ] 硬件地址管理页 ( 完整对标 HDManager ) - iOS 暂无

## P10-3 硬件签名等待

- [ ] 硬件签名等待/交互 ( Ledger/QR/WatchOnly ) - iOS 暂无 ( 需与 Phase 4 Approval 体系打通 )

## P10-4 WalletConnect

- [x] WalletConnectView ( 连接页 UI ) - mobile/ios/RabbyMobile/Views/More/GasAccountView.swift ( WalletConnectView )
- [x] DeepLink 接入 ( wc:/rabbymobile://wc?uri=... ) - mobile/ios/RabbyMobile/RabbyMobileApp.swift
- [ ] WalletConnect v2 pairing/connect/sign/tx - mobile/ios/RabbyMobile/Core/WalletConnectManager.swift ( pair/connect notImplemented )

## P10-5 多签钱包

- [x] WatchGnosisSessionKeyrings ( Gnosis/Watch keyring 骨架 ) - mobile/ios/RabbyMobile/Core/WatchGnosisSessionKeyrings.swift
- [x] GnosisQueueView ( 队列页骨架 ) - mobile/ios/RabbyMobile/Views/Settings/GnosisQueueView.swift
- [ ] ImportGnosisAddress / Cobo / Coinbase 等导入流程 - iOS 暂未实现 ( 需按产品规划补 )

Phase 10 产出: 所有硬件钱包支持 + WalletConnect + 多签

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## 阶段十一 : Ecology + Points + Dapp (Phase 11)

参考代码量: Ecology ~2,850 行, RabbyPoints ~1,737 行

## P11-1 Ecology 链上生态

- [ ] Ecology 活动入口/专题页 ( DBK/Sonic 等 ) - iOS 暂未对齐 ( 可先用 DAppBrowser 打开对应站点 )

## P11-2 Rabby Points 积分

- [x] RabbyPointsManager ( 积分接口/本地存储 ) - mobile/ios/RabbyMobile/Core/RabbyPointsManager.swift
- [x] RabbyPointsView ( 积分页 : 总分/排名/邀请链接/每日领取/历史 ) - mobile/ios/RabbyMobile/Views/More/MiscViews.swift
- [ ] TopBoard/更复杂的 Claim Item/验证地址等 ( 扩展端完整形态 ) - iOS 暂未对齐 ( 按产品需要补 )

## P11-3 Dapp 搜索

- [x] DAppBrowserView ( URL 输入 + Popular DApps + WKWebView provider 注入 ) -  
mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift
- [x] provider 注入与 eth\_sendTransaction 请求转 Approval -  
mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift
- [ ] personal\_sign / typedData 请求支持 - 见 Phase 4 ( handleSignMessage 未实现 )
- [ ] Bookmarks 列表/持久化 - iOS 暂未实现 ( 当前仅内存数组 )

## P11-4 其他

- [x] ConnectedSitesView ( 已连接站点 ) - mobile/ios/RabbyMobile/Views/Settings/SettingsView.swift
- [ ] MetaMaskModeDapps/PreferMetamaskDapps ( 扩展特性 ) - iOS 暂未对齐 ( 可选 )
- [ ] ImportMetaMask / RequestPermission / QRCodeCheckerDetail / 测试网水龙头等 ( 扩展额外页 ) - iOS 暂未实现 ( 按产品需要补 )

Phase 11 产出: 生态入口 + 积分系统 + Dapp 搜索/管理

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## 阶段十二 : iOS 平台独有适配 (Phase 12)

扩展没有但 iOS 必须的功能

### P12-1 安全 & 身份

- [x] Face ID / Touch ID 生物识别集成 - mobile/ios/RabbyMobile/Core/BiometricAuthManager.swift
- [x] iOS Keychain 安全存储 - mobile/ios/RabbyMobile/Core/StorageManager.swift
- [x] AutoLock ( 切后台/超时自动锁定 ) - mobile/ios/RabbyMobile/Core/AutoLockManager.swift + mobile/ios/RabbyMobile/RabbyMobileApp.swift
- [ ] 切后台自动模糊 ( 隐私遮罩 ) - iOS 暂无 ( 可加 Window overlay/blur )

### P12-2 通知 & 链接

- [x] APNs 权限请求 + 注册 ( 基础 ) - mobile/ios/RabbyMobile/RabbyMobileApp.swift
- [x] 本地通知能力 ( 基础 ) - mobile/ios/RabbyMobile/Core/NotificationManager.swift
- [ ] 交易确认/完成/失败 “ 后端推送 ” 闭环 - iOS 暂未实现 ( 需服务端支持 )
- [x] Deep Link ( wc://rabywallet://wc?uri=... ) -  
mobile/ios/RabbyMobile/RabbyMobileApp.swift ( WC pairing 未完成 )
- [ ] Universal Links ( raby.io App ) - iOS 暂无 ( 需 Associated Domains )

### P12-3 硬件适配

- [x] 蓝牙 BLE ( Ledger 连接骨架 ) - mobile/ios/RabbyMobile/Core/HardwareWallet/BluetoothManager.swift
- [ ] 相机扫码 ( AVFoundation ) - iOS 暂无 ( 当前仅二维码生成 )

### P12-4 用户体验

- [x] 手势导航 ( 系统默认 + WebView 手势 ) - iOS 原生 ( WKWebView 已开启 allowsBackForwardNavigationGestures )
- [ ] Haptic Feedback ( 触觉反馈 ) - iOS 暂无
- [ ] Widget ( 余额/资产 WidgetKit ) - iOS 暂无
- [ ] App Clips - iOS 暂无

## P12-5 DApp Browser (iOS 独有)

- [x] App 内浏览器 ( WKWebView ) - mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift
- [x] window.ethereum 注入 ( JS Bridge ) - mobile/ios/RabbyMobile/Views/DAppBrowser/DAppBrowserView.swift
- [ ] DApp 权限管理闭环 ( 连接授权弹窗/断开/多账户/多链 ) - 部分能力在 mobile/ios/RabbyMobile/Core/TransactionWatcherManager.swift ( DAppPermissionManager )
- [ ] URL 白名单/黑名单 ( 钓鱼网站拦截 ) - iOS 暂无 ( 可复用扩展端规则/黑名单源 )

Phase 12 产出: iOS 平台全部适配完成

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## 阶段十三 : Lending + 剩余服务 (Phase 13)

补全所有剩余后台服务 ( 以 iOS Core/\*Manager.swift 为准 ; 扩展端 React Hooks 不做 1:1 迁移 )

### P13-1 Lending 借贷

- [x] LendingManager ( 协议/仓位数据拉取 ) - mobile/ios/RabbyMobile/Core/LendingManager.swift
- [x] LendingView ( 展示 UI ) - mobile/ios/RabbyMobile/Views/More/LendingPerpsAdvancedView.swift ( LendingView )
- [ ] 借贷操作闭环 ( Supply/Borrow/Repay/Withdraw ) - iOS 暂无 ( 需补 Approval Action 解析 + Tx 构建 )

### P13-2 其余服务补齐 ( iOS )

- [x] Session/偏好/本地存储 - mobile/ios/RabbyMobile/Core/PreferenceManager.swift + mobile/ios/RabbyMobile/Core/StorageManager.swift
- [x] 链同步/离线链数据 ( 基础 ) - mobile/ios/RabbyMobile/Core/SyncChainManager.swift
- [x] Permission ( Connected Sites 存储 ) - mobile/ios/RabbyMobile/Core/StorageManager.swift + mobile/ios/RabbyMobile/Core/TransactionWatcherManager.swift
- [x] Notification ( 本地通知 + APNs 注册 ) - mobile/ios/RabbyMobile/Core/NotificationManager.swift + mobile/ios/RabbyMobile/RabbyMobileApp.swift
- [ ] UserGuide UI 接入 ( overlay 引导 ) - mobile/ios/RabbyMobile/Core/RabbyPointsManager.swift ( UserGuideManager )
- [ ] MetaMaskMode/InnerDappFrame 等扩展特有服务 - 见第 27 章 ( 可选/N/A )
- [ ] WidgetKit / Push backend / QR Scanner 等 iOS 平台补齐 - 见 Phase 12

### P13-3 扩展端 Hooks ( React ) 迁移

- [ ] N/A ( iOS 无 React Hooks ; 以 SwiftUI + ObservableObject 为主 )

Phase 13 产出: Lending ( 展示 ) + iOS 端剩余服务补齐

## 阶段十三 · 五 : Desktop 桌面端功能迁移 (Phase 13.5) - 可选 验证补充

注意: 以下为桌面端专用功能 , 共 ~63,000+ 行代码。可根据产品规划选择性迁移。

### P13.5-1 Lending 借贷功能 (优先级较高)

- [ ] DesktopLending 主页 - src/ui/views/DesktopLending/index.tsx (~77 文件)
- [ ] MarketSelector 市场选择器 (Aave V3/Compound等) -  
DesktopLending/components/MarketSelector/
- [ ] LendingRow 供应/借货行项 - DesktopLending/components/LendingRow/
- [ ] SummaryBar 摘要栏 (健康因子/净值) - DesktopLending/components/SummaryBar/
- [ ] SupplyModal 存入弹窗 - DesktopLending/components/SupplyModal/
- [ ] BorrowModal 借款弹窗 - DesktopLending/components/BorrowModal/
- [ ] RepayModal 还款弹窗 - DesktopLending/components/RepayModal/
- [ ] WithdrawModal 提取弹窗 - DesktopLending/components/WithdrawModal/
- [ ] ManageEmodeModal E-Mode 管理 - DesktopLending/components/ManageEmodeModal/
- [ ] HealthFactor 健康因子组件 - DesktopLending/components/HFDescription/
- [ ] Lending Hooks - pool / market / useMode / LendingDataContext / useLendingService

### P13.5-2 Desktop Perps 专业合约 (优先级中)

- [ ] DesktopPerps 主页 - src/ui/views/DesktopPerps/index.tsx (~70+ 文件)
- [ ] TradingPanel 交易面板 (Market/Limit/TWAP/Scale) -  
DesktopPerps/components/TradingPanel/
- [ ] ChartArea K线图区域 - DesktopPerps/components/ChartArea/
- [ ] OrderBookTrades 订单簿+成交记录 - DesktopPerps/components/OrderBookTrades/
- [ ] UserInfoHistory 持仓/订单/历史/资金费率 - DesktopPerps/components/UserInfoHistory/
- [ ] DesktopPerps Modals (ClosePosition/EditTpSL/EditMargin) - DesktopPerps/modal/
- [ ] DesktopPerps Hooks - usePerpsTradingState / usePerpsProState / usePerpsProInit / usePerpsProPosition

### P13.5-3 Desktop Profile 个人中心 (优先级中)

- [ ] DesktopProfile 主页 - src/ui/views/DesktopProfile/index.tsx (~30+ 文件)
- [ ] TransactionsTabPane 交易记录标签页 - DesktopProfile/components/TransactionsTabPane/
- [ ] NFTTabPane NFT标签页(Listing/Offer/Trading) -  
DesktopProfile/components/NFTTabPane/
- [ ] SendTokenModal 发送代币弹窗 - DesktopProfile/components/SendTokenModal/
- [ ] SendNftModal 发送NFT弹窗 - DesktopProfile/components/SendNftModal/
- [ ] SignatureRecordModal 签名记录弹窗 - DesktopProfile/components/SignatureRecordModal/
- [ ] GnosisQueueModal Gnosis队列弹窗 - DesktopProfile/components/GnosisQueueModal/

Phase 13.5 产出: 借贷 + 专业合约交易 + 桌面端个人中心功能

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## 阶段十四：测试 + 上线 (Phase 14)

### P14-1 测试

- [ ] 单元测试 - 核心服务 (Keyring / Swap / Bridge / SecurityEngine)
- [ ] 组件测试 - 关键 UI 组件
- [ ] E2E 测试 - 主要用户流程 (创建钱包 发送代币 Swap)
- [ ] 安全审计 - 密钥管理 / 签名流程 / 存储安全
- [ ] 性能测试 - 大量代币/NFT 列表渲染 / 多链余额加载

### P14-2 上线准备

- [ ] App Store 审核材料准备 (截图/描述/隐私政策)
- [ ] TestFlight 内测
- [ ] App Store 提审
- [ ] 灰度发布 + 监控

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## 开发优先级总览

```
Phase 0 [■■■] ███████████████████ → ████ (██████8██████)
Phase 1 [■■■] ███████████████ → ███/█████
Phase 2 [■■■] ███████████████████ → ████ (█CommonPopup ~10,438█)
Phase 3 [■■■] ███████████ → ███/███
Phase 4 [■■■] ███████████████████ → ████ (█)
Phase 5 [DeFi] ████ → Swap + Bridge
Phase 6 [■■■] ████ → ███ + ████
Phase 7 [NFT] ███ → NFT █
Phase 8 [■■■] ████ → █ + ████
Phase 9 [Gas] ████ → GasAccount + Perps
Phase 10 [■■■] ████ → ███ + WalletConnect
Phase 11 [■■■] ████ → Ecology + Points + Dapp (█5██████)
Phase 12 [iOS] ████ → iOS █
Phase 13 [■■■] ████ → ███ (█3██████ + 7█████Hooks)
Phase 13.5[■■■] ████ → Desktop██/███/███ (███)
Phase 14 [■■■] ████ → █ + █
```

### MVP 最小可用产品 (Phase 0-3)

完成后用户可以：创建钱包 查看资产 发送/接收代币

### 核心功能版 (Phase 0-6)

完成后用户可以：以上 + Swap兑换 + 跨链桥 + 交易历史 + 授权管理

### 完整版 (Phase 0-14)

与扩展钱包功能一比一对齐

### 旗舰版 (Phase 0-14 + Phase 13.5)

包含 Desktop 桌面端借贷/专业合约/个人中心功能