



# Dapp UX today is defined by single signature signing

Non-upgradeable

**Entire account gets connected** 

Must have native token to send transactions

Seed phrase storage

No native batching

No transaction rules

# Common pitfalls that account abstraction can solve for







## **Conditional Logic**

← Back to portfolio selection

#### **Add Portfolio Security**

Add an escape hatch, define disaster recovery

**Security Settings** Add recovery strategies **Unwind all positions** Auto-remove exposure if liquidity pool drains more thna\ Do not unwind, revoke all permissions Keep positions but remove dapp permissions Watch on Optimism Base Mainnet Free Free Free

\$25/mo

Estimated Payme



#### Transfer funds to purchase

You need 0.5 Zora ETH

Found funds on the following networks. Approve in your wallet to allow ZenGarden to fulfill your order on Zora.



0.199 ETH on Optimism

Balance: 0.1511

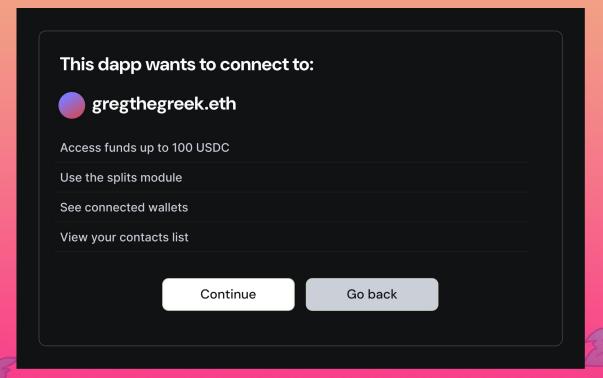


0.311 ETH on Ethereum

Balance: 1.9392

**Purchase NFT** 

# Modular authentication to allow user to define the dapp's level of access

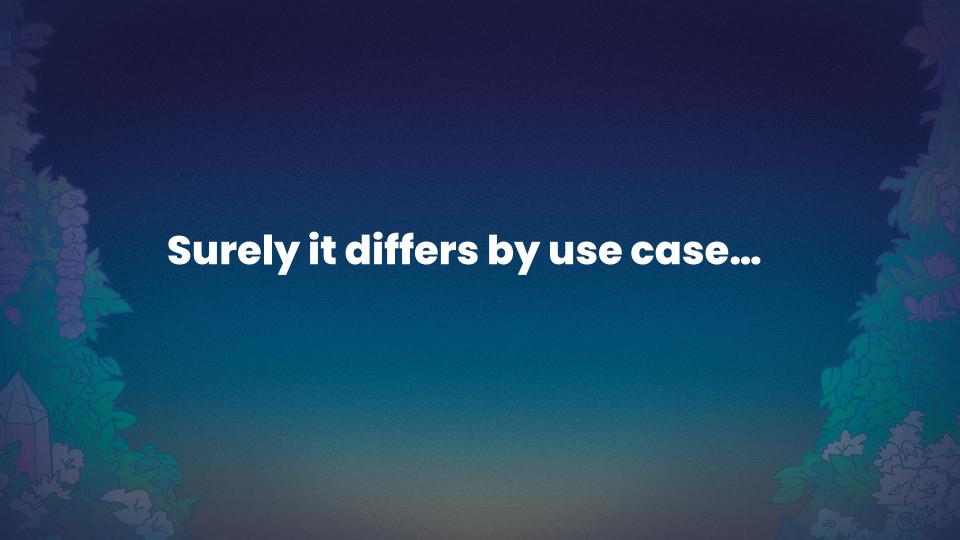


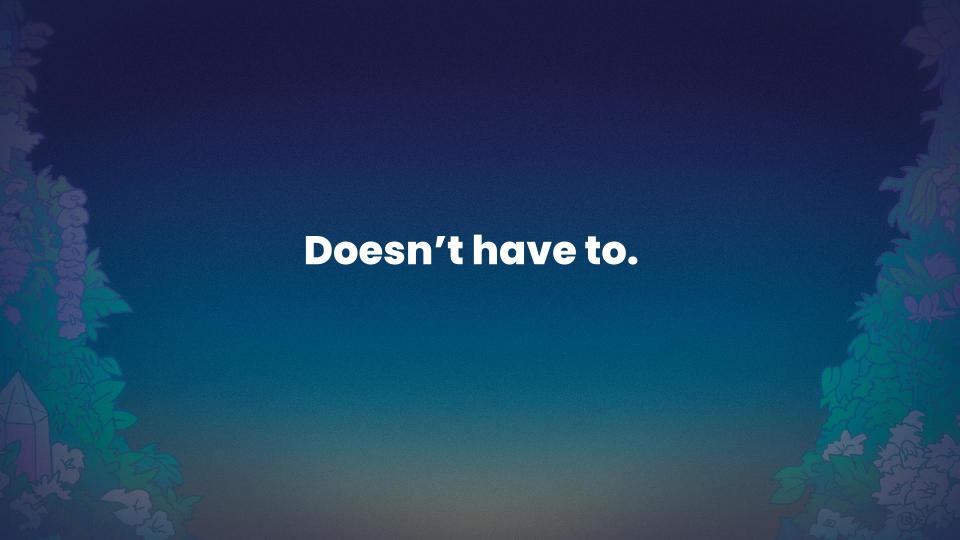




UX Enhancement	New user friction & risks
Fewer approvals	Account and funds need to migrate; new address!
Enhanced programmability	EOA is still initial signer for it
Gas abstraction	4337-compatibility before 7702 = not gas optimized
Account Recovery	Unfamiliar user patterns
Modular Authentication or Session Keys	Increased complexity for implementing account methods; you've issued a new wallet for the user







# The improvements that will get us there

**CAIP-275** 

ERC-4337

EIP-7702

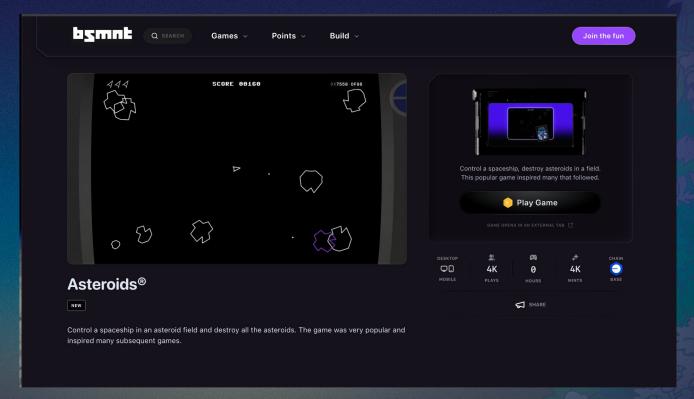
EIP-7755

EIP-7715

EIP-7676

RIP-7575

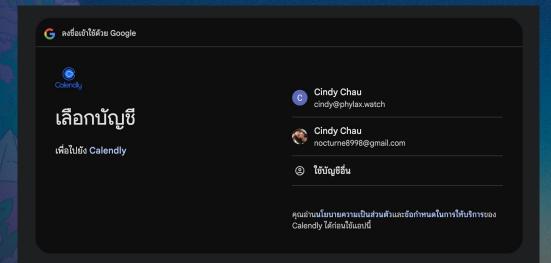
# 1. Let the user browse the app without logging in first with a silent embedded wallet.

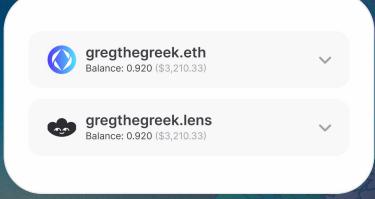


#### 2. Deliver an OAuth experience to let the user sign in with the account they want.

**CAIP-275: Discovery** 

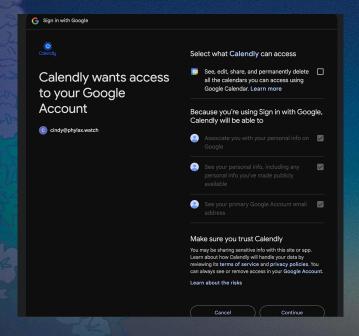
EIP-7555: OAuth

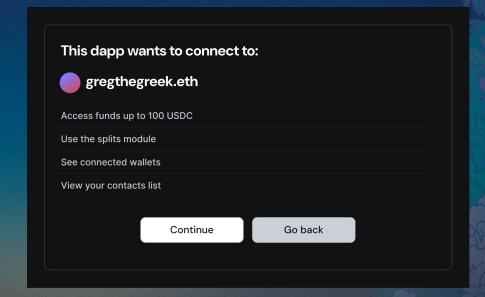




#### 3. Let the user decide what the app gets to do with it

#### EIP-7715: Permissions Controls Authorize a spend limit, session key creation

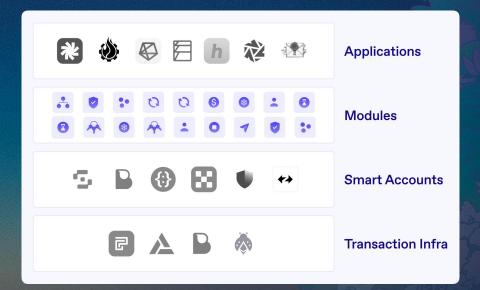




## 4. Greater programmability and personalized app experiences

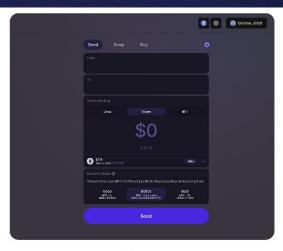
#### EIP-7579: Minimal Modular Smart Accounts

- Fewer approvals, more functionality
- Bundle transactions and complex logic





Wallet

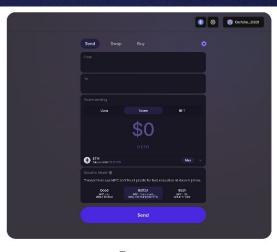


Dapp



Wallet

ERC-4337



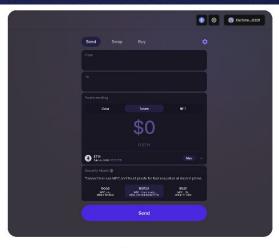
Dapp



Wallet

ERC-4337

Passkey



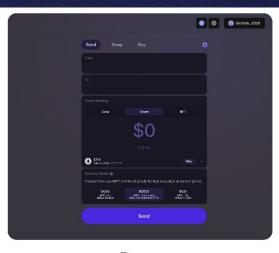
Dapp



Wallet

ERC-4337

Passkey



Dapp

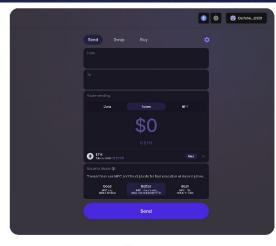
Embedded Wallet



Wallet

ERC-4337

Passkey

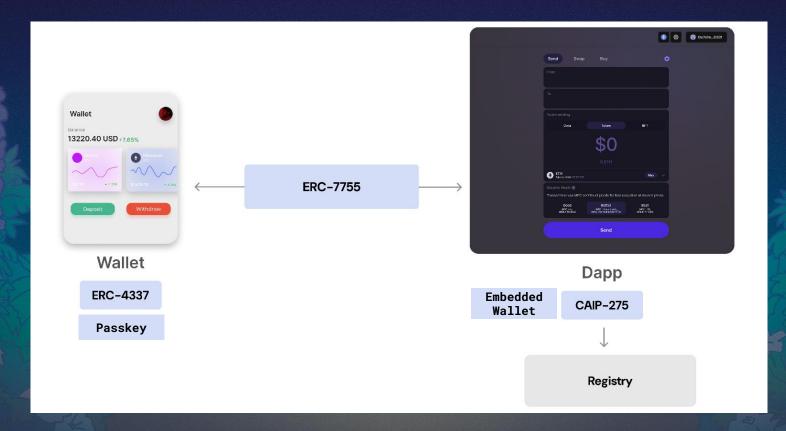


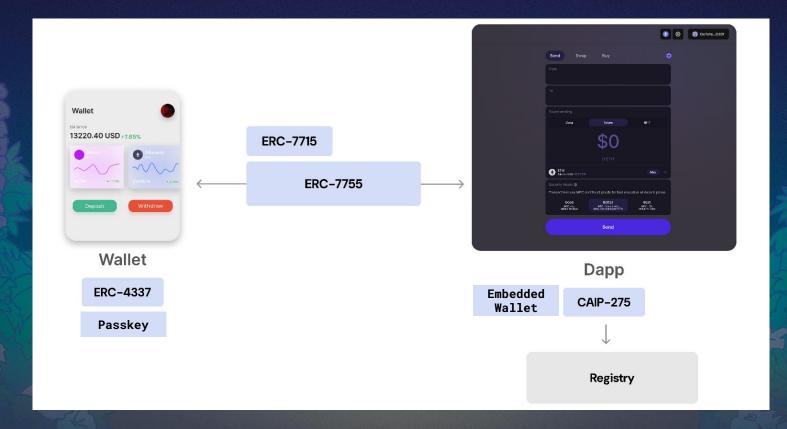
Dapp

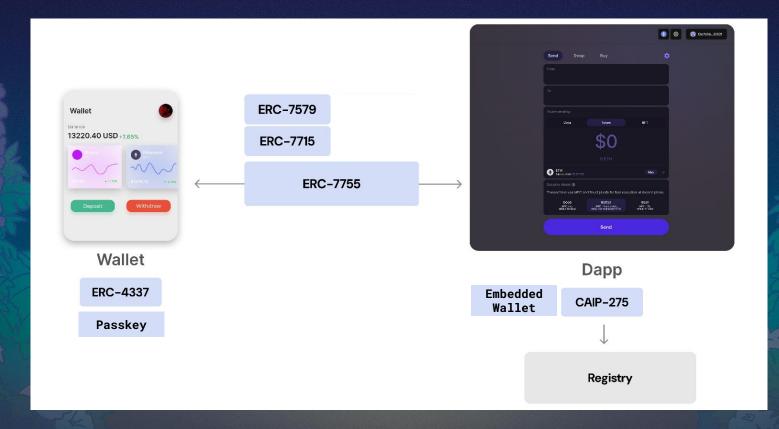
Embedded Wallet

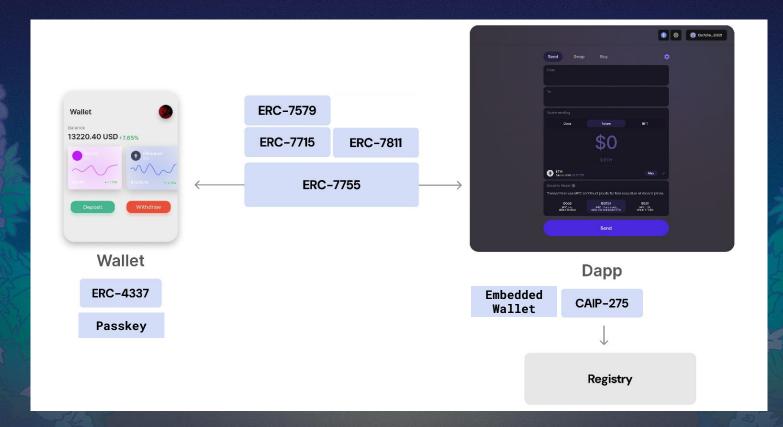
CAIP-275

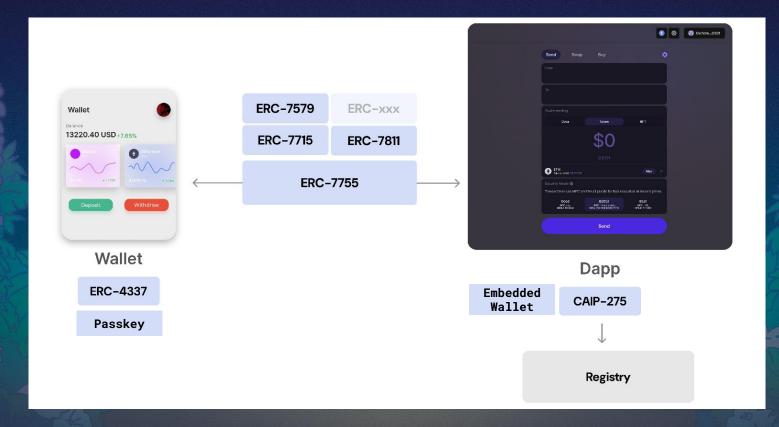
Registry











# The time for greater ground-zero dapp experience is here.

