InstaDapp Notes

Documentation

Official Docs (https://docs.instadapp.io/)

The Instadapp platform is a full feature platform for both users and developers to leverage the full potential of DeFi. The Instadapp protocol ('DSL') acts as the middleware that aggregates multiple DeFi protocols into one upgradable smart contract layer.
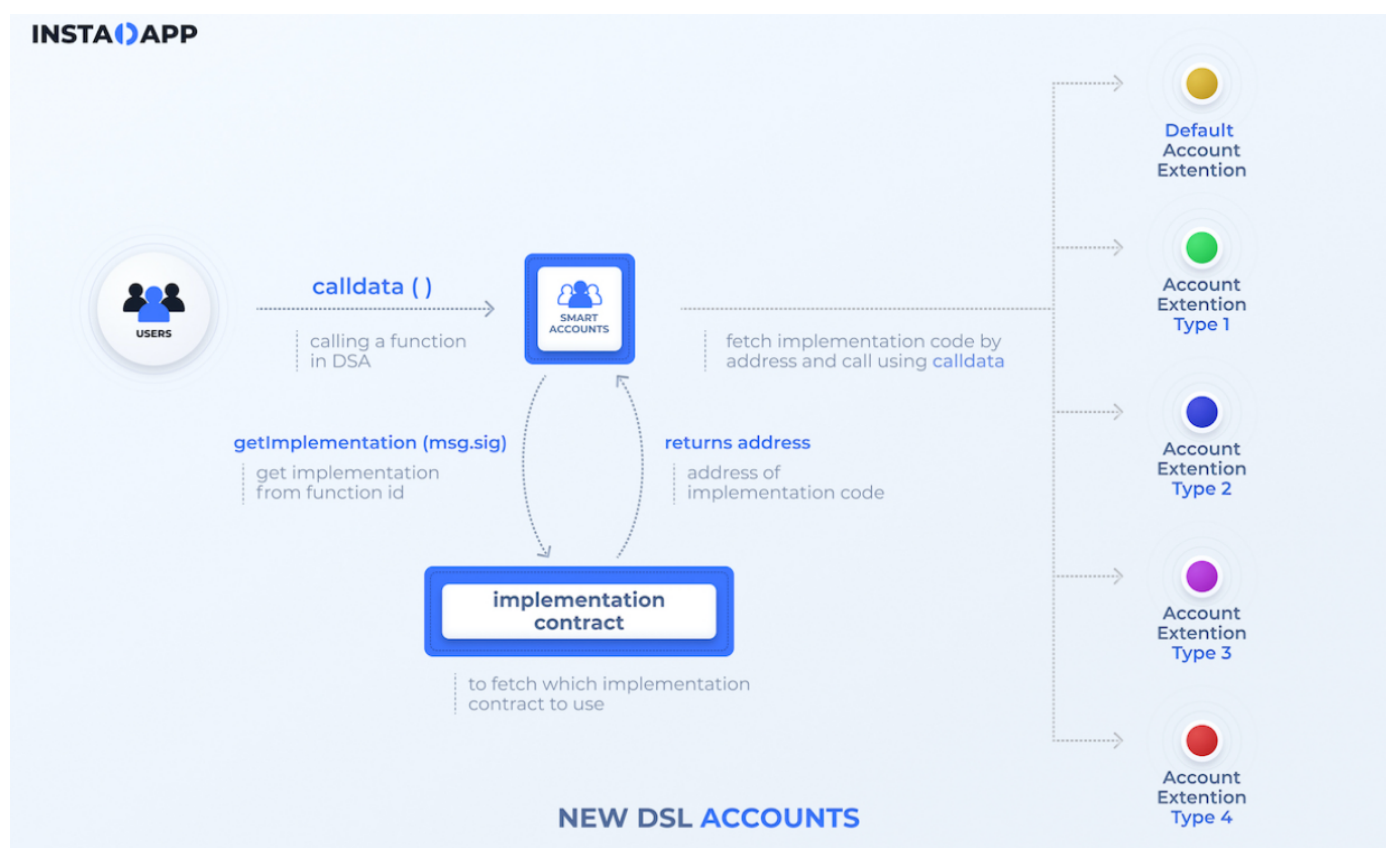The DSL consists of three components, which are:

- Smart accounts that users trustlessly own. Users also utilize the accounts to store assets and execute transactions across connectors.
- Connectors refer to standardized modules that interact with DeFi protocols and give smart contracts access to DeFi services. Smart contracts are written by developers then execute the DeFi transactions across protocols.
- Authority is given to users to set guardians, managers, or automation bots to manage their DSAs. Users can set customized permissions depending on the standardized modules so the addresses under those modules can execute specific functions and nothing else.
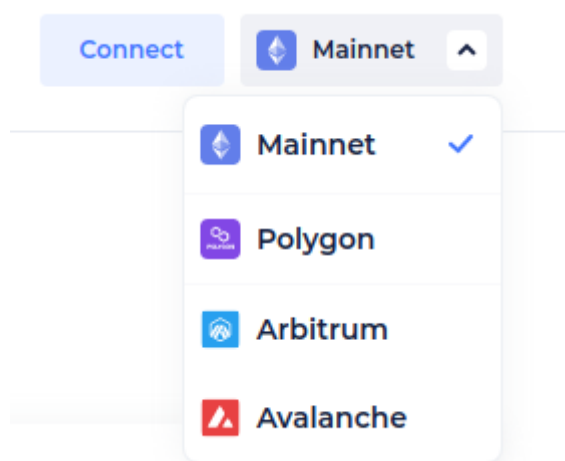
There is a default layer, plus extensions / layers that allow functionality not currently possible in DeFi.
The extensions include

- Flashloan Extension (Flashloan Aggregator)
- Optimiser Extension (yield)
- Authority Extension
- Market making extension (to create limit orders across multiple protocols to create unique non-protocol specific 'DeFi positions'.)
- Automation Extension
- Layer2 Extension to easily migrate positions from layer 1 to layer 2 and vice versa. Also, between different layer 2s.

Supported Chains

Flashloan Aggregator

Routes

- **Route 1 –** Aave route. Flashloan provider is aave.

- **Route 2 –** Maker route. Flashloan provider is makerDAO. Provides flashloan only for DAI.

- **Route 3 –** Maker–Compound route. **Advanced Routing Pair** MakerDAO – Compound.

- **Route 4 –** Maker–Aave route. **Advanced Routing Pair** MakerDAO – Aave.

- **Route 5 –** Balancer route. Flashloan provider is balancer.

- **Route 6 –** Balancer–Compound route. **Advanced Routing Pair** Balancer – Compound.

- **Route 7 –** Balancer–Aave route. **Advanced Routing Pair** Balancer – Aave.

Chains\Routes	1	2	3	4	5	6	7
Arbitrum	✗	✗	✗	✗	✓	✗	✗
Avalanche	✓	✗	✗	✗	✗	✗	✗
Mainnet	✓	✓	✓	✓	✓	✓	✓
Polygon	✓	✗	✗	✗	✓	✗	✓

Multiple Accounts and Authority

You can have multiple accounts in your dashboard with one address.
These accounts can be managed from different roles

Interacting with InstaDapp using code

Instadapp sdk allows you to interact with the DSL by casting 'spells' using node.js

```
spells.add({
  connector: "aave",
  method: "deposit",
  args: [
    "0xeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee",
    "1000000000000000000", // 1 ETH (10^18 wei)
    0,
    0
  ]
})
```

You can also interact with InstaDapp on smart-contract level. See more here
(https://docs.instadapp.io/get-started/cast-smart-contract)