**Week 5**

**5.1 | Solana wallet adapter, Client side solana**

* Ideally try to build a wallet on newer blockchains. Sui is one such new blockchain.
* Every blockchain has a wallet adapter.
* Wallet adapters let you connect your dapp to your wallet. So that the dapp can then send a transaction and request the wallet to approve/sign it. The most popular one is maintained by the anza team.
* The dapp does not have access to the user’s private key but the developers of the wallet have.
* Every wallet injects some code on the website and the wallet adapter checks for these injections.
* Examples of dapp: opensea (dapp on eth), magiceden (dapp on solana/eth), tensor (dapp in sol)
* Your private key is stored in the wallet. The dapp requests the wallet for confirmation and the wallet requests the user for confirmation.
* There are two kinds of wallet adapters available to us. One is the solana adapter and the other is the Jupiter adapter.
* We can use alchemy to create our own RPC url.
* The useWallet hook provides the wallet variable inside the Airdrop component.