A blockChain based Voting system
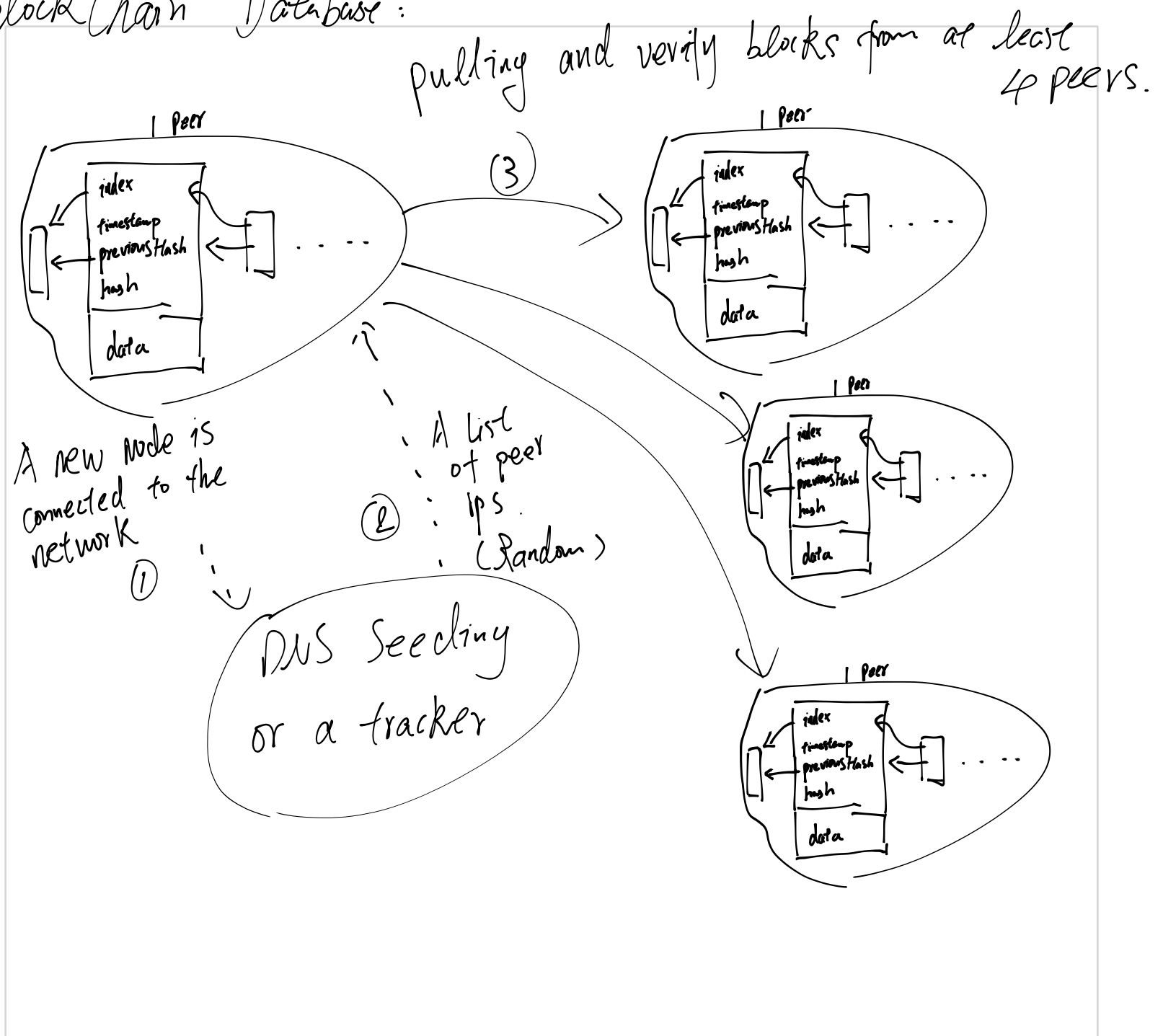
This project includes:

① A blockchain database with DNS seeding

② A voting system based on ① ; possible interface would be a webApp based on Flask.

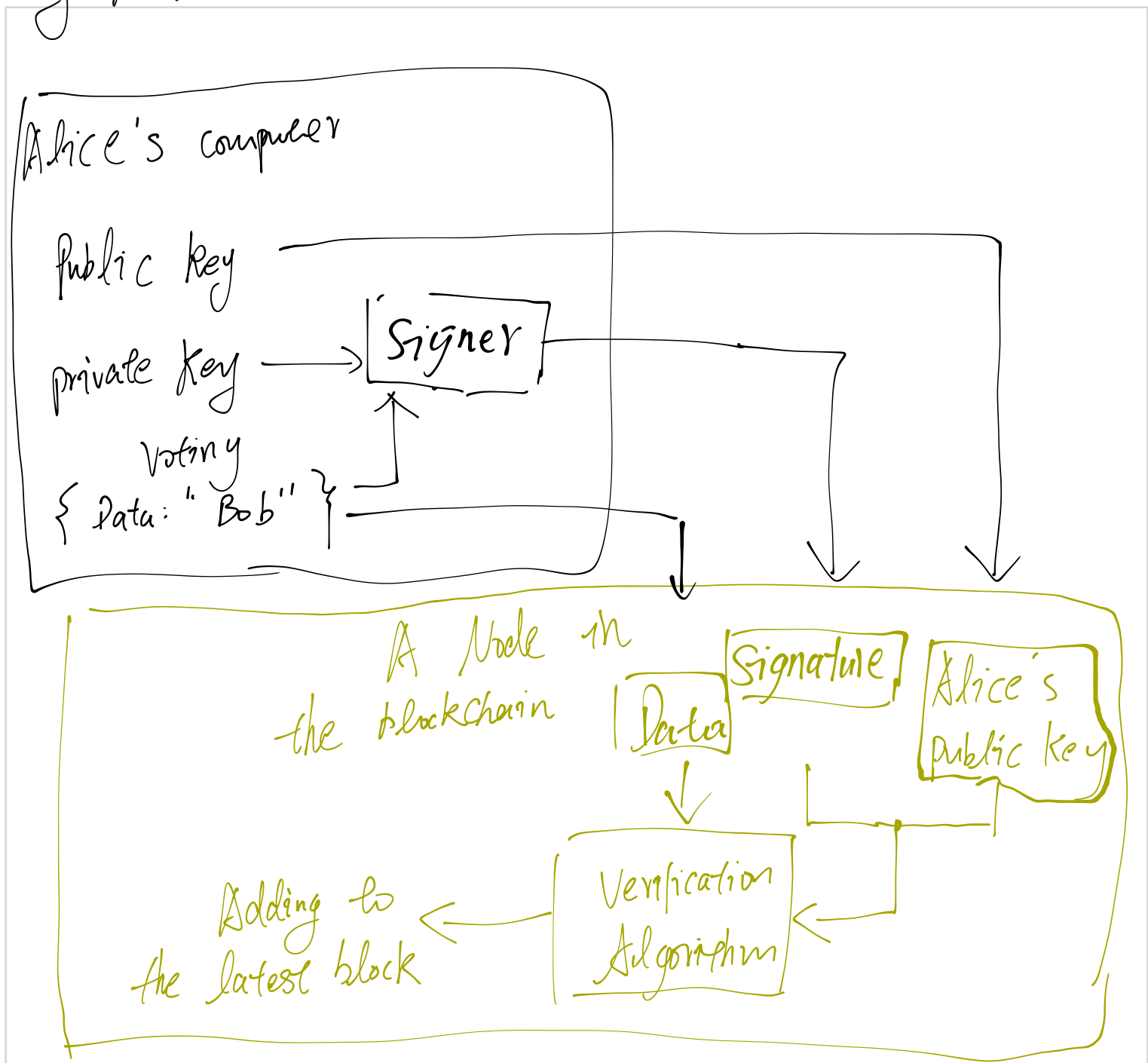③ I would pack all of these into a Docker image to unify testing and developing environments.

The Blockchain Database:

pulling and verify blocks from at least 4 peers.

A new node is connected to the network ①

② A list of peer IPs. (Random)

DNS Seedling or a tracker

The challenging part of the P2P blockchain database is the handle of synchronization of peers as following:
   i) Proof of Work Algorithm
   ii) Conflicts resolving.

The voting module

Alice's computer

Public Key

private Key ⟶ Signer

Voting
{ Data: "Bob" }

A Node in the blockchain

| Data | Signature | Alice's Public Key |

Data ⟶ Verification Algorithm

Adding to the latest block ⟵ Verification Algorithm

Vote·Counting □→□→ .... □   go through all blocks

The voting part is quite simple once we have a functional blockchain database.