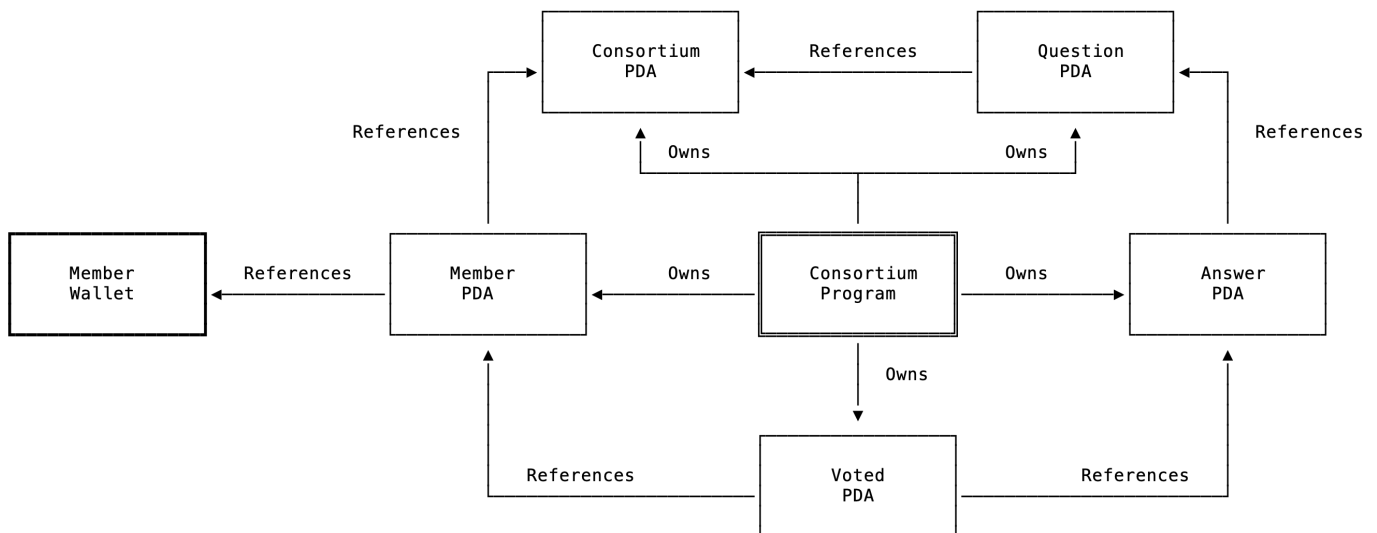


# example3-consortium

## Service:

Program that allows people to propose issues, solutions to these issues and for others to vote on the best solution to a given issue. Chairperson can add new members and propose issues.

## Account diagram:



## Flow:

### 1. Create consortium PDA : `initialise_consortium`

Consortium PDA is initialised.

Seeds for the PDA is composed off:

- chairperson's public key
- word picked by the chairperson

### 2. Chairperson adds a new member: `add_member`

This action can only be done by the chairperson.

Member PDA is initialised.

Seeds for the PDA is composed off:

- consortium's public key
- member's wallet public key

In member's PDA vote size is set in the `weight` field and whether they can create answers.

### **3. Chairperson asks a question:** `add_question`

This action can only be done by the chairperson.

Question PDA is initialised.

Seeds for the PDA is composed off:

- consortium's public key
- consortium's question counter

Counter is incremented.

### **4. Answer is proposed:** `add_answer`

This action can only be done by a permitted member.

Answer PDA is initialised.

Seeds for the PDA is composed off:

- questions's public key
- questions's answer counter

### **5. Member casts vote:** `vote`

This action can only be done by the member of this consortium.

Voted PDA is initialised.

Seeds for the PDA is composed off:

- member's PDA's public key
- questions's public key

This account is empty, but with fixed seed schema it prevents member from voting again.

### **6. Chairperson ends the vote:** `tally`

This action can only be done by the chairperson provided vote deadline has expired.

Answer PDA array has to be provided with each account being in the correct.

For each provided account it's expected PDA is calculated to compare against to ensure correct accounts were provided.

Index of the answer with the highest amount of votes is set as the winner in the question PDA.