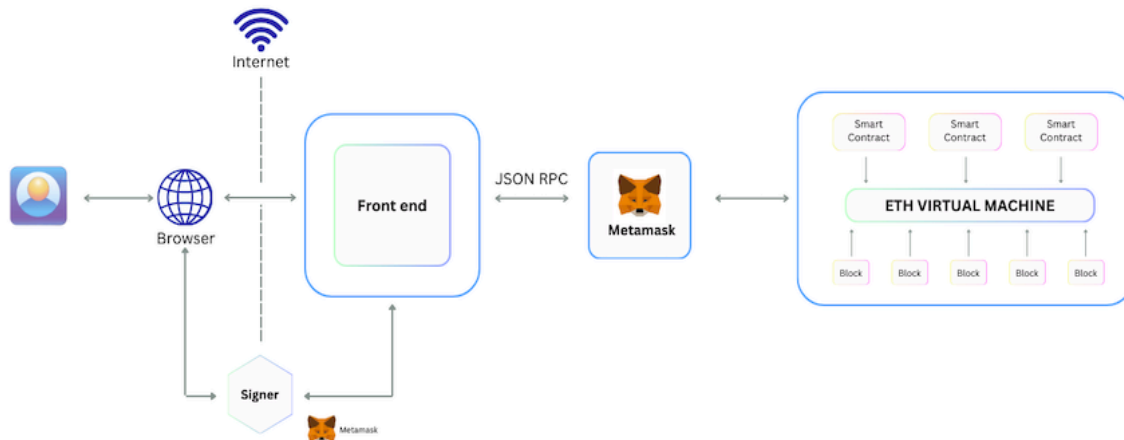


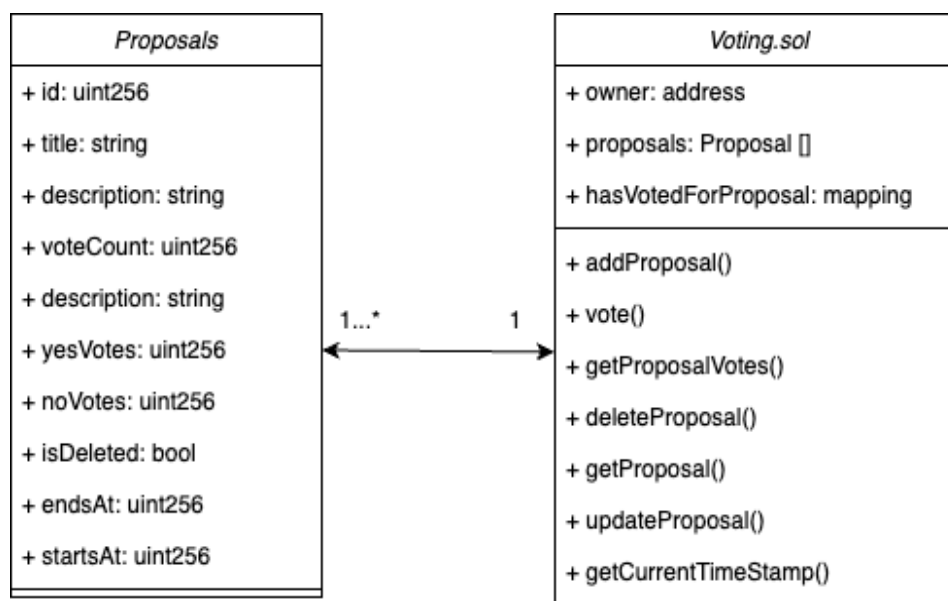
# SOFTWARE DESIGN

## FUNIX VOTING DAAP

### 1. Architecture



### 2. Application Design



### 3. Functional Design

#### ➤ `addProposal()`

- *Function Name:* addProposal
- *Function Purpose:* Adds a new proposal to the list of proposals.
- *Parameters:*
  - `_title` (string): Title of the proposal.
  - `_description` (string): Description of the proposal.
  - `_endsAt` (uint256): Timestamp when the proposal ends.
- *Modifiers:*
  - `nonEmptyString`: Checks that strings are not empty.
- *Access:* Public
- *Return Type:* None
- *Events:* Emits ProposalAdded event.

#### ➤ `vote()`

- *Function Name:* vote
- *Function Purpose:* Allows a user to vote on a specific proposal.
- *Parameters:*
  - `_proposalId` (uint256): Identifier of the proposal.
  - `_yesVote` (bool): Indicates whether the vote is "yes" or "no".
- *Access:* Public
- *Return Type:* None

#### ➤ `getProposalVotes()`

- *Function Name:* getProposalVotes
- *Function Purpose:* Retrieves the number of "yes" and "no" votes for a specific proposal.
- *Parameters:*
  - `_proposalId` (uint256): Identifier of the proposal.
- *Access:* Public
- *Return Type:* Two uint256 values (yesVotes, noVotes).

#### ➤ `updateProposal()`

- *Function Name:* updateProposal
- *Function Purpose:* Allows the owner to update the details of a proposal.

- *Parameters:*
  - `_proposalId` (uint256): Identifier of the proposal.
  - `_title` (string): New title of the proposal.
  - `_description` (string): New description of the proposal.
  - `_endsAt` (uint256): New time in minutes when the proposal ends.
- *Modifiers:*
  - `onlyOwner`: Restricts access to the owner of the contract.
- *Access:* Public
- *Return Type:* None

#### ➤ `deleteProposal()`

- *Function Name:* deleteProposal
- *Function Purpose:* Allows the owner to delete a proposal.
- *Parameters:*
  - `_proposalId` (uint256): Identifier of the proposal.
- *Modifiers:*
  - `onlyOwner`: Restricts access to the owner of the contract.
- *Access:* Public
- *Return Type:* None

#### ➤ `getProposals()`

- *Function Name:* getProposals
- *Function Purpose:* Retrieves all non-deleted proposals.
- *Access:* Public
- *Return Type:* Array of Proposal structs.

#### ➤ `getCurrentTimestamp()`

- *Function Name:* getCurrentTimestamp
- *Function Purpose:* Retrieves the current timestamp.
- *Access:* External
- *Return Type:* uint256