07-Ideas

- Github - PDF (https://github.com/FrankBevr/100-Ideas/blob/main/practice/07/07-Ideas.pdf)
- Github - Code (https://github.com/FrankBevr/100-Ideas/blob/main/practice/07/citor/lib.rs)

Overview

🧠 Think

100 Words

Goal: Get rich pictures

Words					
Kiddo	Blocks	Garden	Icescream	Bicycle	Football , Goalkeeper
Bags	After Shopping Presentation	Kathrin	Gucci	Searching	Missing ,
University	Furtunty	Physics	Mathematics	Marketing	Project Management , Discreptance
Iot	Smart Clothes	ESP22	Particle Photon	Humidity	Heartbeat , Temperature
Kilt	Paris	Workshop	Dudley	Presentation	India , Identification , Certificate , Heatlh

10 Sentences

Theme	Words	Phrase	Rating
Iot	Humidity	Climate Change - Keep your City Healthy	5
Kidd	Goalkeeper	Football -Train your Up, Invest in uprising stars	5
Bags	Searching	Real Life Search -Track your Items	3
University	Discreptance	Dating - Aligmnetscoring	2
Kilt	Workshop	…	0

Select & Rate

Selected: Citor - Keep your City Healthy

📝 Sketch

Idea

Problem: Cities have a bad Climate

Idea: Citor - Keep your City Healthy

Solution: `Citor.xyz`

Requirements

Functional Requirements

- The Smart Contract must be able to control right funding
- The User must Allow to post Sensor Data
- The Gas Sensor must be able to store Data
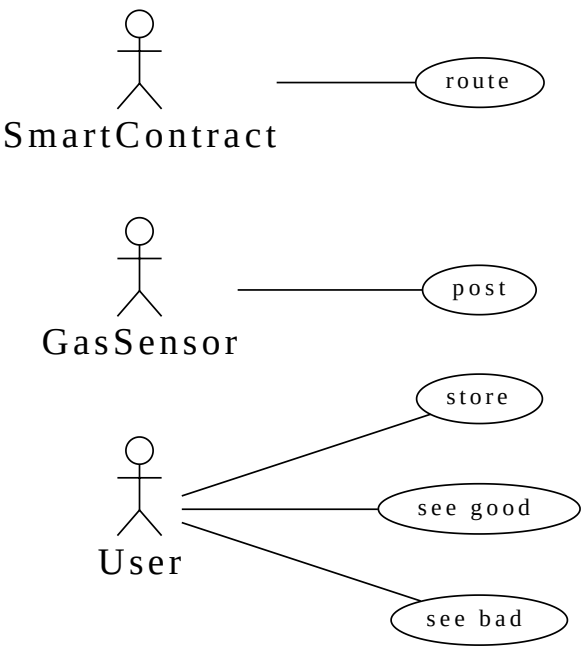
Non Functional Requirements

- Cities must be attracted to it

User Stories

- As a User I want to store my Sensor Data manually
- As a User I want to see which area is the worst
- As a User I want to see which area is the best
- As a Gas Sensor I want to post my data easily
- As a Smart Contract I want to be able to route funding

Diagrams

UseCase

SmartContract — (route)

GasSensor — (post)

User
- (store)
- (see good)
- (see bad)

Class

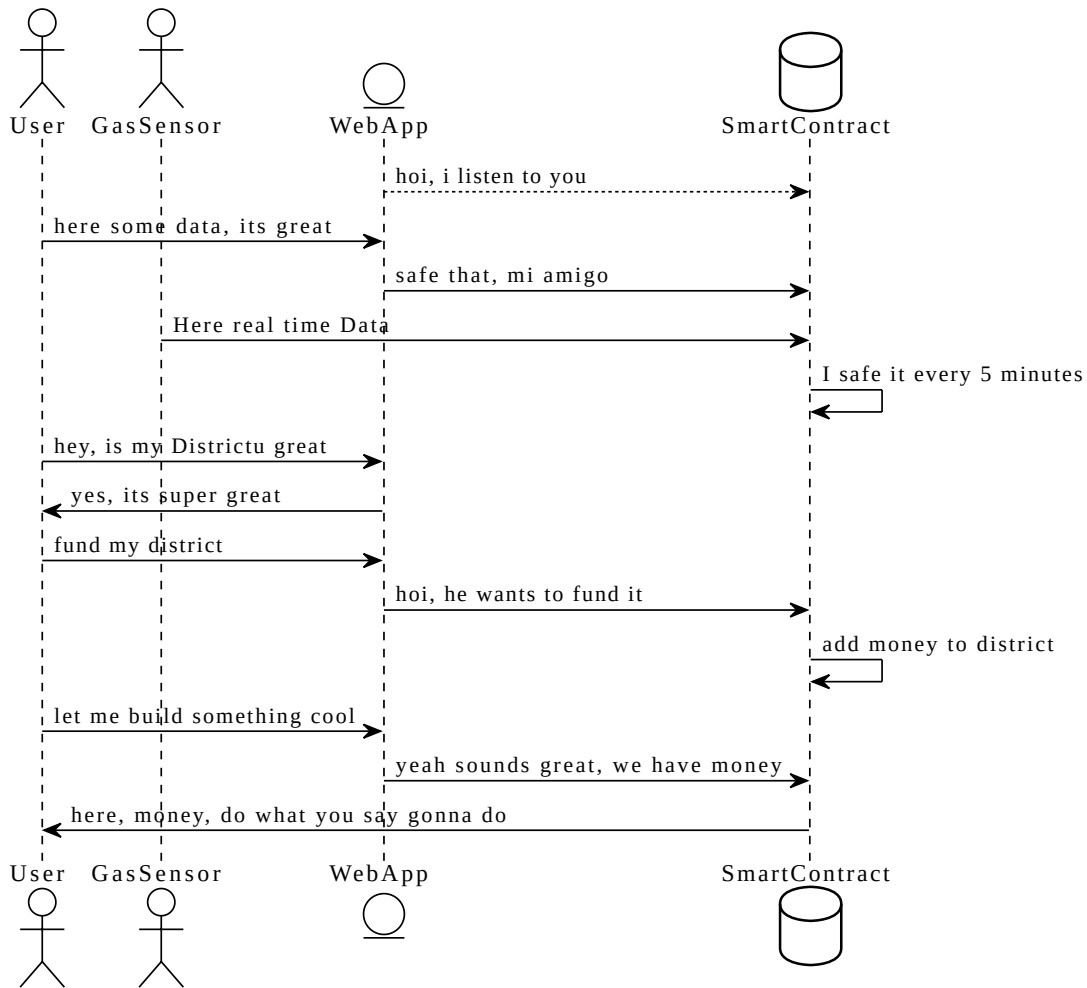| © Citor |
| --- |
| o area: distrcitcs[] |
| o gasData: String |
| o store(_gasData: String) |
| o get_gas_data(): String |
| o add_district(_district: District) |
| o is_good(_district: District): String |

S e q u e n c e

User　　GasSensor　　WebApp　　　　　　　　SmartContract

WebApp - - > SmartContract: hoi, i listen to you

User -> WebApp: here some data, its great

WebApp -> SmartContract: safe that, mi amigo

GasSensor -> SmartContract: Here real time Data

SmartContract: I safe it every 5 minutes

User -> WebApp: hey, is my Districtu great

WebApp -> User: yes, its super great

User -> WebApp: fund my district

WebApp -> SmartContract: hoi, he wants to fund it

SmartContract: add money to district

User -> WebApp: let me build something cool

WebApp -> SmartContract: yeah sounds great, we have money

SmartContract -> User: here, money, do what you say gonna do

User　　GasSensor　　WebApp　　　　　　　　SmartContract

🎨 Paint

```rust
#![cfg_attr(not(feature = "std"), no_std, no_main)]

#[ink::contract]
mod citor {
    use ink::prelude::string::String;

    #[ink(storage)]
    pub struct Citor {
        value: bool,
        area: String,
        gas_data: String,
    }

    impl Citor {
        #[ink(constructor)]
        pub fn new() -> Self {
            Self {
                value: true,
                area: String::from("Area52,"),
                gas_data: String::from("5,Good; "),
            }
        }

        #[ink(message)]
        pub fn get_area(&self) -> String {
            self.area.clone()
        }

        #[ink(message)]
        pub fn add_area(&mut self) {
            self.area.push_str(" Area 53,");
        }

        #[ink(message)]
        pub fn get_gas_data(&self) -> String {
            self.gas_data.clone()
        }

        #[ink(message)]
        pub fn flip(&mut self) {
            self.value = !self.value;
        }

        #[ink(message)]
        pub fn get(&self) -> bool {
            self.value
        }
    }
}
```

Outro

- Think, Sketch, Paint
- Adaptable
- Potential