

# 01-Ideas

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- Youtube - Layout ([https://youtu.be/tnlLeOa\\_dto](https://youtu.be/tnlLeOa_dto)).
- Youtube - Think & Sketch (<https://youtu.be/AAIJumqYtns>).
- Youtube - Paint (<https://youtu.be/iWwVZAEXyZM>).
- Github - PDF (<https://github.com/FrankBevr/100-Ideas/blob/main/practice/01/01-Ideas.pdf>).
- Github - Code ([https://github.com/FrankBevr/100-Ideas/blob/main/practice/01/state\\_creator\\_04/lib.rs](https://github.com/FrankBevr/100-Ideas/blob/main/practice/01/state_creator_04/lib.rs)).

# Overview

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## Intro

- ✓ I'm Frank.

## Think

- ✓ Words
- ✓ Sentences
- ✓ Ideas
- ✓ Rate Ideas
- ✓ Select Idea

## Sketch

- ✓ Structure Idea (Design)
  - ✓ Ideas (Problem/Solution)
  - ✓ Requirements (Functional / NonFunctional)
  - ✓ Stories
  - ✓ Diagrams
    - ✓ UseCase (What)
    - ✓ Class (Data)
    - ✓ Sequence (Behaviour)

## Paint

- ✓ First Draft
  - ✓ `cargo contract new my_new_idea`
  - ✓ `cargo contract build`
  - ✓ `substrate-contracts-node --dev`
  - ✓ `cargo contract deploy`
  - ✓ `cargo contract call`

## Outro

- ✓ **What we did:** Think, Sketch, Paint
- ✓ **How we achieved it:** Markdown, UML, ink!
- ✓ **Why:** ?Great Ideas come from many?

Words				
Giraffe	Monkey	City	Tower	lot
Augumented Reality	Vision Pro	House	Chair	Female
Male	Lawyer	Doctor	Laptop	Scientist
Physicist	Chemist	Biologist	Germanist	Ethistics
Priest	Coffee	Latte Machiato	Shoes	Poland
Germany	Europe	China	Chenzhen	India
State	Candada	Paint	Color	HSL
Clothers	Music	Drop	Frequency	Universe
Family	Children	Toys	ToyStory	Animation
Weather	Sad	Shiny	Sun	Mercury
Elements	Plumbbumb	Metal	Oil	Plastic
Bell	Manufacturuing	Vertictes	Time	Smile
Band	aShields	Car	Machines	Packaging
aFirehelper	fusion	Switzerland	electron	Collider
Games	Psychology	Magazain	Ocean	Animals
Whale	Manga	theories	Books	Amazon
Netlify	AWS	Vercel	Vim	Blender
Models	Animation	Uv Mapping	Wheel	Motion Capture
Terminal	Plane	Airport	Raynair	Memes
Whatsapp	Instagram	Bumble	Tinder	Facebook

Sentences	Rating	Description
Animal tracking	5/10	As a User I want to track my animals in my reservoir
City Funding	3/10	As a City citizen I want to be able to fund projects in my city
Data Distribution	4/10	As a User I want to distribute Data without losing ownership
Health Safe	6/10	As a Doctor I want to have access to my Patients Health Data
Encyclopedia unstoppable	4/10	As a Human I want to be access to none censored data
State Creator	8/10	As a User I want to create my own empire.
My Color	4/10	As a User I want to have access to the latest color trends
Fashion Collector	2/10	As a User I want to collect the latest Fashions Trends
Music Distributer	3/10	As a Artist I want to distribute my Music in a fair manner
Elements Collector	8/10	As a Scientist I want to learn about elements and have a prove that I know things
Weather Forecast	3/10	As a Weather Scientist I want to share my forecast with the world without losing my credentials
Plastic Certificate	4/10	As a Manufacture I want to certificate my new plastics
Organic Snippet Collector	8/10	As a Biologist I want to share DNA Snippets anonymously without taking full ownership about the Data
Supply Chain Tracker	2/10	As a Manufactore I want to have a proof that my supply chain is child labor free
Animation Library	4/10	As a Animator I want to share my unique animation key frames with the world

Selected Idea:



State Creator - Create your Empire



# Sketch

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## Idea

State Creator - Create your Empire

## Problem

Its hard to create your own State

## Solution

`statecreator.xyz`

## Requirements

### Functional Requirements

- The App must do add citizens
- The App must allow elections
- The App must allow to buy land
- The App must allow festivals

### NonFunctional Requirements

- The App must be able easy to use
- The App must be open source

## User Stories

### Epic User

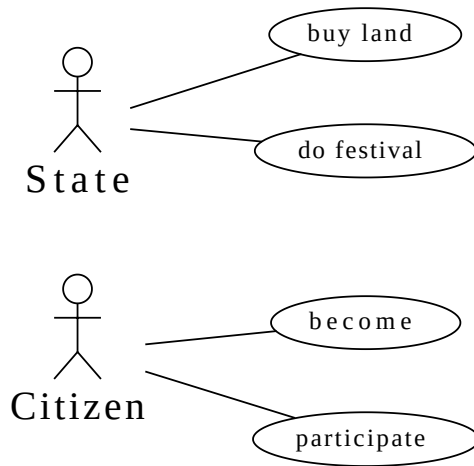
- As a User I want to become a citzien
- As a User I want to participate in elections

### Epic State

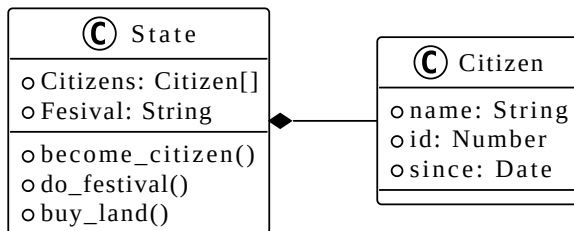
- As a State I want to be able to buy land
- As a State I want to create festivals

## Diagrams

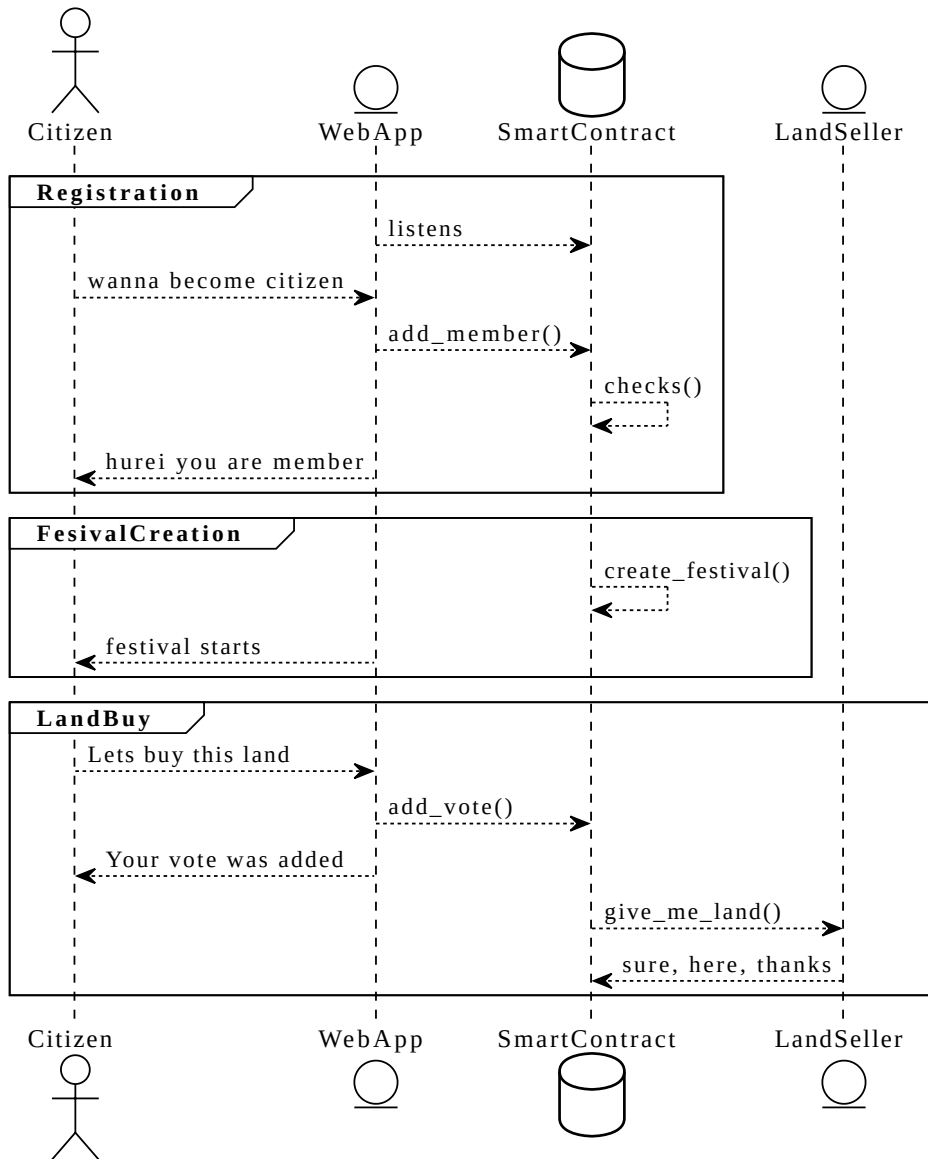
### Sketch - Use Case Diagram



### Sketch - Class Diagram



## Sketch - Sequence Diagram



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

#[ink::contract]
mod state_creator_04 {
    use ink::prelude::string::String;

    #[ink(storage)]
    pub struct StateCreator04 {
        value: bool,
        citizien: AccountId,
        festival: String,
    }

    impl StateCreator04 {
        #[ink(constructor)]
        pub fn new() -> Self {
            Self {
                value: true,
                citizien: AccountId::from([0x0; 32]),
                festival: String::from(""),
            }
        }

        #[ink(message)]
        pub fn become_citizen(&mut self){
            self.citizien = self.env().caller();
        }

        #[ink(message)]
        pub fn get_citizen(&self) -> AccountId{
            self.citizien
        }

        #[ink(message)]
        pub fn do_festival(&mut self){
            self.festival = "20240324,Herbert,50".into();
        }

        #[ink(message)]
        pub fn get_festival(&mut self) -> String {
            self.festival.clone()
        }

        #[ink(message)]
        pub fn buy_land(& self){}

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



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