

# 02-Ideas

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- Youtube ([https://youtu.be/P\\_xxstTo5zY](https://youtu.be/P_xxstTo5zY)).
- Github - PDF (<https://github.com/FrankBevr/100-Ideas/blob/main/practice/02/02-Ideas.pdf>).
- Github - Code (<https://github.com/FrankBevr/100-Ideas/blob/main/practice/02/researcho/lib.rs>).

# Overview

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## Intro

- ✓ I'm Frank

## Think

- ✓ Words
- ✓ Sentences
- ✓ Rate
- ✓ Select

## Sketch


- ✓ Idea
  - ✓ Problem
  - ✓ Solution
- ✓ Requirements
  - ✓ Functional Requirements
  - ✓ Non Functional Requirements
- ✓ Stories
- ✓ Diagrams
  - ✓ Use Case
  - ✓ Class
  - ✓ Sequence

## Paint


- ✓ cargo contract new our\_great\_idea
- ✓ cargo contract build
- ✓ cargo contract call

## Outro

- ✓ What: Think, Sketch, Paint
- ✓ How: Markdown, UML, ink!
- ✓ Why: Fast

 Goal Write 100 Words

Words				
monkey	health	orthesis	services	craftsmens
lawyer	packaging	wallpainting	iot	ar
xr	mr	art	3d	2d
krita	blender	figma	uiux	thailand
city	funding	germany	azerbajan	kyrgystan
politics	state	statesmen	light	physics
chemisit	biologist	germanist	lingustic	ethics
religion	school	education	chair	fashion
online shops	jackets	consulting	lawyer	games
mmorpg	spaceships	rockets	asteroids	planets
solarsystem	cars	tractors	farming	food
banana	dirt	excavator	neurofeedback	construction
datastructures	youtube	facebook	whatsapp	tinder
bumble	erotic	internet	history	technology
sitting	walking	sports	athletics	fitness
rope jumping	inline skating	skating	music	r&b
rock	metal	electro	electro swing	jazz
piano	instruments	gitare	eyes	mouth
ears	senses	conductor	capacity	newton
joule	gravity	cpu	memory	personalities
sub0	polkadot	smart contract	xcm	2024

 Goal: Write 10 sentences & rate it

Name	Catchphrase	Rating
Craftsmen Tooling	Track your productivity	6
Digital Production	Distrubte your creations	2
Corruption	keep politicians accountable	7
Clothes	your clothes your production your distribution	4
History	real history safe for the history no screwnity	5
Universe	own your new planet	3
Chemistry	fund the unknown	7
Sports	get fair training	2
Instruments	you voice your song	2
Hardware	opensource next level	4
Calender	time can be different	2



Goal Select: Chemistry - Fund the unknown

## **Idea**

### **Problem**

Fund research with unknown outcome is difficult

### **Solution**

research.xyz

## **Requirements**

### **Functional Requirements**

- The app must allow the User to login
- The contract must fund projects
- The contract should be apply for funding

### **Non Functional Requirements**

- The smart contract must be accessible to everyone

## **Stories**

### **User Story**

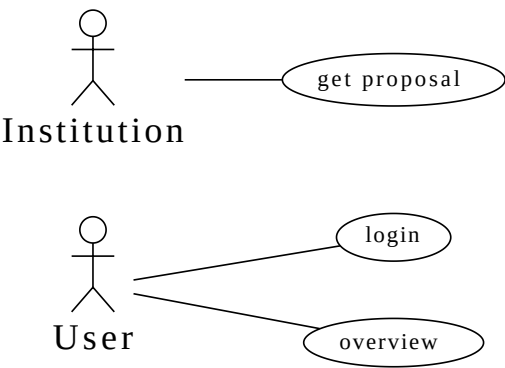
- As a User I want to be able to login
- As a User I want to overview the current funded projects

### **Institution Story**

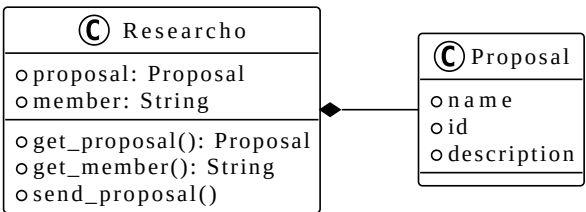
- As a Institution I want reliable funding proposals

# Diagrams

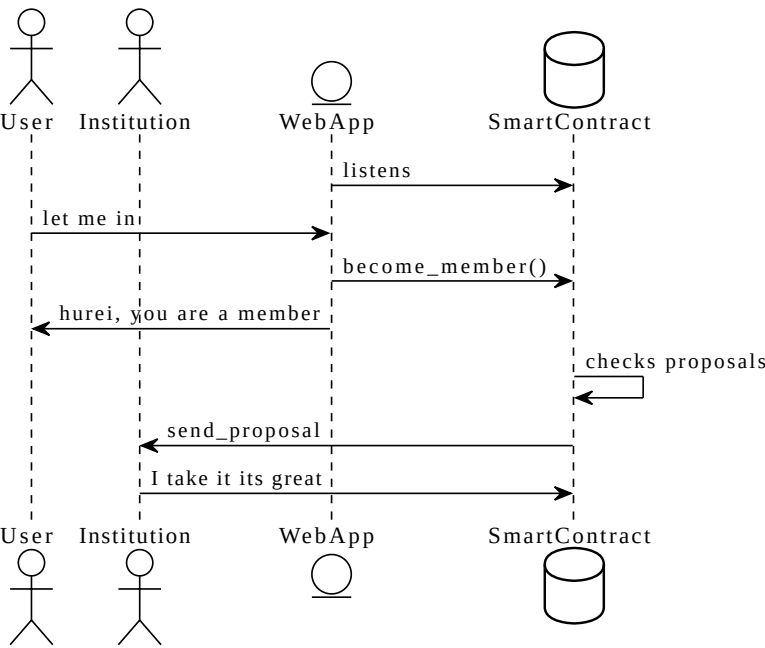
Use Case Diagram



Class Diagram



Sequence Diagram



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

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

    #[ink(storage)]
    pub struct Researcho {
        value: bool,
        proposal: String,
        member: AccountId,
    }

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

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

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

        #[ink(message)]
        pub fn get_member(&mut self) -> AccountId{
            self.member
        }

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

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

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