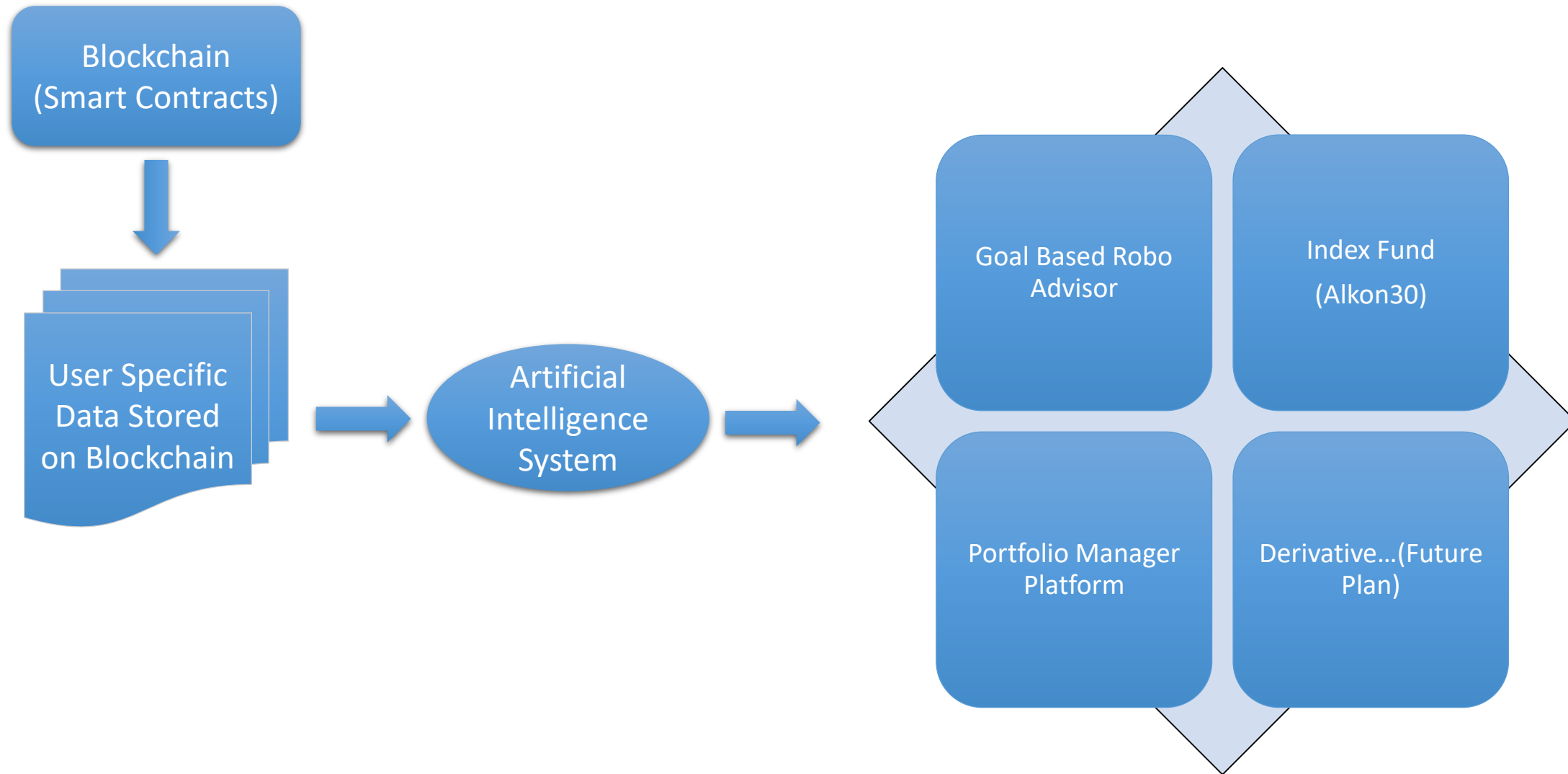
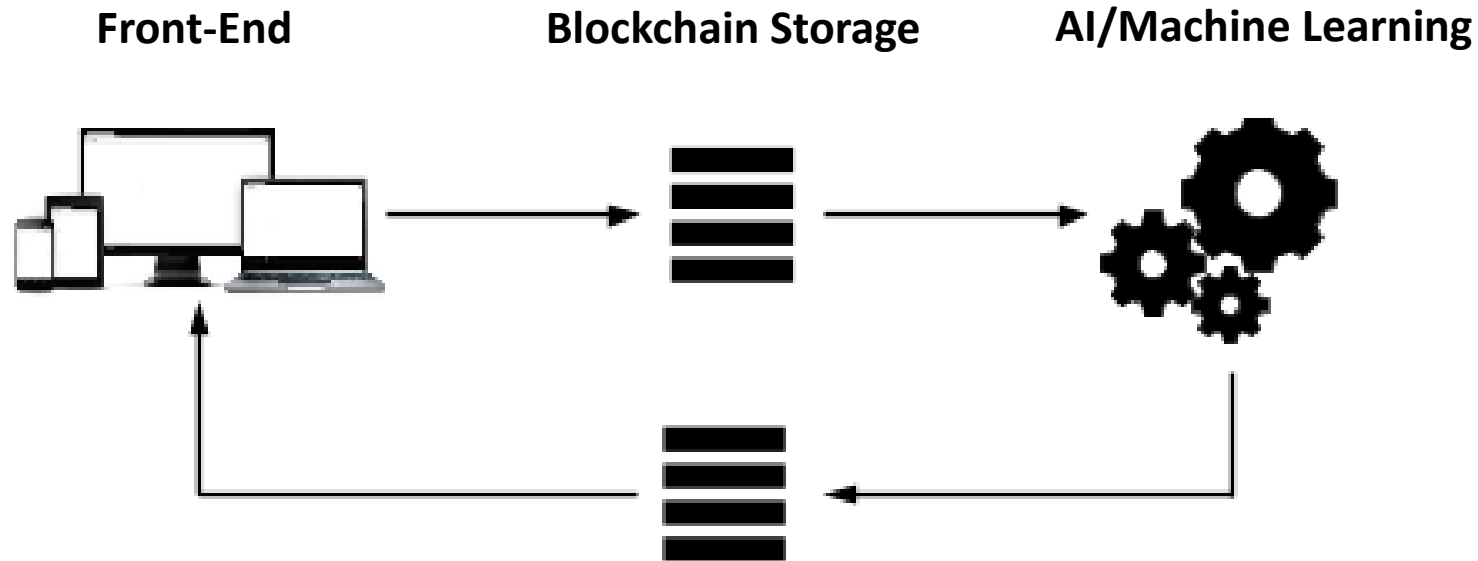
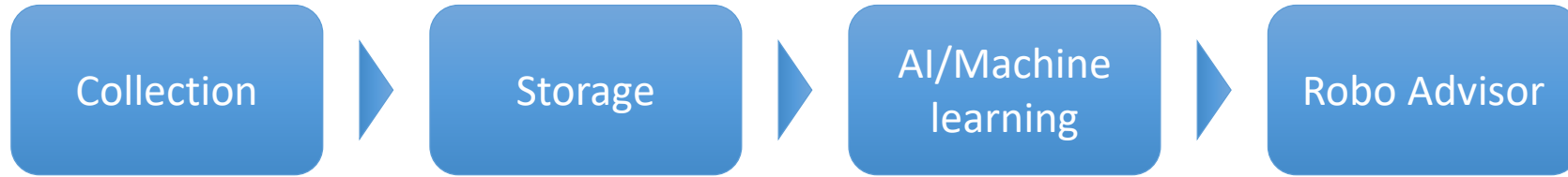


# Artificial Intelligence System Architecture for Alkon



# Data Architecture Framework for Robo Advisor



**Front End:** UI platform for Robo Advisor investment options

**Blockchain Storage:** Blockchain storage where all the data related to clients will be stored

**AI/Machine learning Engine:** AI and ML products are integrated on platform for end users

## Goal Based Robo Advisor

# Goal Based Robo Advisor & Investment Recommendation Engine

X1,X2,  
Xn

Robo Advisor  
Engine

List of User Specific Questions  
Such as users annual income,  
Age, initial investment. Etc.

Automobile Education Vacation Home Emergency Fund Jewellery Fashion Sport Fanatics



Buy my  
first Car



Payment  
for Balance



Buy Ferrari  
in 20 yrs



Payment  
for Celerio



Recommended Investment options Based on AI Algorithms

Robo Advisor  
Engine


We are using below advanced AI, and Machine learning algorithms for our  
Goal Based Robo Advisor

1. Neural Networks
  - LSTM
  - GRU(Gated Recurrent Unit), Bi-LSTM
2. Time series
3. Unsupervised Algorithms


Our recommendations are based on your age, life style, and income.

AutomobileEducationVacationHomeEmergency FundJewelleryFashionSport Fanatics


AllCarClassicSUVLuxuryBikeSuper Bike




Buy my first Car




Down Payment for Baleno





Buy Ferrari in 20 yrs





Down Payment for Celerio




















The logo consists of a blue rounded rectangle with the text "Index Fund Alkon30" inside. A thin blue line forms an oval shape around the rectangle.

## Index Fund Alkon30

## Index Fund (Alkon30)

The Alkon30 Cryptocurrency Index is a benchmark for the crypto market. It is dedicated to give everyone, who is interested, insight about the current and past movement of this young market.

Currently, the Index consists of 30 index members.

### Methodology

The Alkon30 Index is a market index and follows for the derivation the Laspeyres Index. The index of Laspeyres is defined as

$$INDEX_t^{Laspeyres} = \frac{\sum_i P_{it} Q_{i0}}{\sum_i P_{i0} Q_{i0}}$$

### **Liquidity rule:**

1. Percentiles of the Average Daily Trading Volume (ADTV)
2. Percentile of Average Daily Traded Coins (ADTC)

**Condition:** Crypto fulfils at least one of the two rules , it is eligible for the Alkon30

### **Number of Constituents:**

1. To be able to find always the best benchmark, is it better to variate the amount of member such that always the best benchmark is provided.
2. The used procedure for Alkon30 is based on the **AIC** and **BIC** criterion, which are the Akaike Information Criterion and the Schwartz Information Criterion respectively.

### **Weights:**

Each cryptos in Alkon30 is weighted with its market capitalization.

### **Ranking:**

1. After excluding cryptos which doesn't fulfill the Liquidity rule will the cryptos be ranked by their market capitalization in the last period from highest to lowest.
2. The number of cryptos, obtained from the rule for the Number of Constituents, with the highest market capitalization will be taken.

### **Reallocation:**

The reallocation period of the Alkon30 is 7 Days to ensure that the index is always up to date. This period is taken rather short such that the Alkon30 can react faster to changes in the crypto market

AI Based Estate  
Chain Hotspot

Listing of Portfolio  
Mangers on Platform

The diagram consists of two blue shapes. At the top is a small rounded rectangle with the text 'AI Based Estate Chain Hotspot'. Below it is a larger rounded rectangle with the text 'Listing of Portfolio Mangers on Platform'. A thin blue line connects the top of the larger rectangle to the bottom of the smaller one, forming a loop.

## Portfolio Manager Platform

There are three levels needs to be fulfilled to list on Platform

There are three Levels:

1. Junior
2. Pro
3. Master

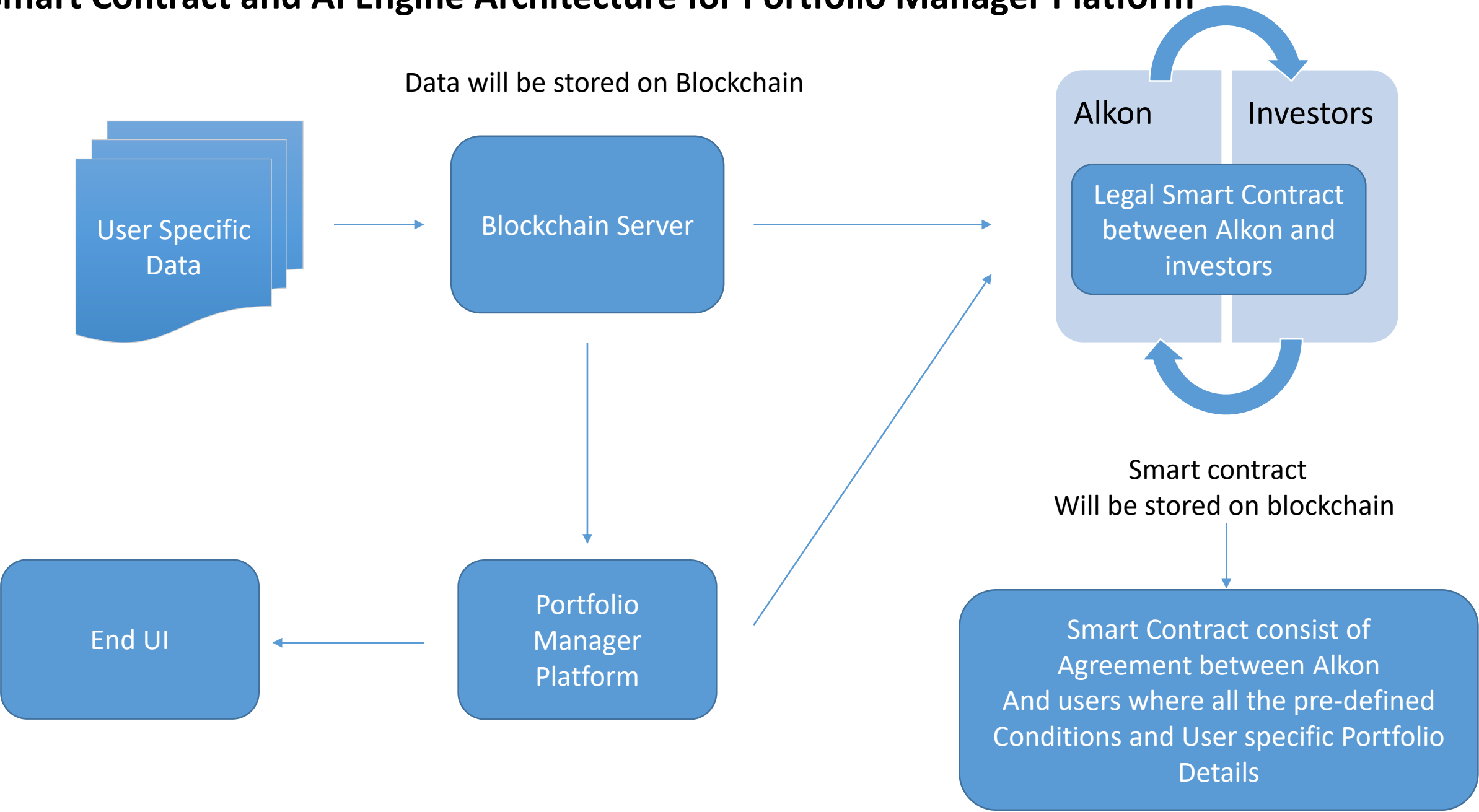
Each Portfolio Manger must needs to create a portfolio which can tracked by Alkon's Committee for performance review.

Committee will decide which portfolio mangers will get listed on platform based on following criteria's:

1. Historical Gains
2. Trading Style
3. Risk Factor



# Smart Contract and AI Engine Architecture for Portfolio Manager Platform



## Market Research

### Competitors

#### 1. Robo Advisor Product

Currently There were no competitors in this space.

#### 2. Index Fund

##### 1. **Crypto20:** Top 20 Index....(They don't have ready MVP)

They have tested their index on private trading...(Currently we can't see their holdings with returns)

##### 1. **SwissBorg:** Large Cap Index (Consist of 20 cryptos).....(They don't have ready MVP)

#### 3. Portfolio Manger Platform

##### 1. **Iconomi:** Currently they have platform where portfolio mangers can create their index where people can invest according to their conditions