

# SRS

## Software Requirement Specification

**Project name:**

# CPM

Crypto Portfolios Manager

**Developers:**

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<a href="#"><u>Overview</u></a> .....	2
<a href="#"><u>Problem Description and Motivation</u></a> .....	2
<a href="#"><u>Project Goals</u></a> .....	2
<a href="#"><u>The Approach</u></a> .....	3
<a href="#"><u>Scenarios</u></a> .....	3
<a href="#"><u>Functional Requirements</u></a> .....	4
<a href="#"><u>Non- Functional Requirements</u></a> .....	4
<a href="#"><u>System Flows</u></a> .....	5

## Overview:

Manage Partner is a program that gives crypto currency traders a set of tools that allows them to easily manage several crypto investors portfolios.

The program will show the information, profits, losses and more statistics to the trader for each of his clients (investors) - while providing a reliable user interface that will help the trader to trade, monitor and control all of the investors balances.

## Problem Description and Motivation:

The Cryptocurrencies market is growing fast these days. More and more Millennials believes that cryptocurrencies represent the future, and their money should be invested in crypto currencies (especially bitcoin), other than gold or stock market shares.

*sources:*

<https://www.ccn.com/generation-bitcoin-90-of-millennials-prefer-crypto-to-gold-etf-expert/>

<https://www.cnbc.com/2018/07/30/more-millennials-than-older-adults-say-bitcoin-is-the-best-way-to-save>

<https://www.forbes.com/sites/laurencebradford/2018/02/26/how-millennials-are-using-cryptocurrency-to-build-the-future/>

Despite the growing desire to invest in cryptocurrencies – we know (from experience) that a lot of people do not want to deal with trading on a daily basis or even study the field - they will prefer that professionals (from investment firms to even friends) will invest and trade their money.

Currently, the above need has not yet been adequately met for portfolios managers, - and it is very difficult, and completely not user friendly - to control (and monitor) multiple crypto investments of different people under one trader account.

## Our Project Goal :

Our goal is simple - giving crypto traders a useful tool that will help them easily manage several crypto investors portfolios – by a single account.

# The Approach:

**Program Language:** Python

**Libraries:** requests, json, os, binance\_client, time, tkinter, pyplot

**API:** api.Binance.com (As "Binance.com" is the most known crypto trading platform)

## Main Process:

Mission 1 – "**The User**" - Connect our main user to his account, and get his current balance.

Mission 2 – "**The Investors**" – Add, delete & edit each investor portfolio

Mission 3 – "**Information**" – Save, load & update the investors positions and holdings

Mission 3 – "**Actions**" - Set positions for each investor: buy/sell positions.

Mission 4 – "**Interface**" - Create a GUI for our main trader.

## Scenarios :

1. The trader is verified and enters his account
2. The trader has a new investor who gave him his money – so the trader creating a new portfolio for his customer
3. The trader buying/selling a cryptocurrency for an investor.
4. The trader is deleting a portfolio (the investor stopped working with the investor)
5. The trader is canceling an order
6. The investor wants to know his positions / the trader is checking the current investor positions
7. The Investor wants to know his profits and losses / the trader is checking the current investor profits and losses

## Functional Requirements :

1. Adding new portfolios
2. Adding a position to an investor
  - Set entry points to the deal
  - Set a goal to the deal for the exit point (take-profit )
  - Set stop – loss for the deal
3. Watching a portfolio status
  - Balance
  - Currencies
  - Profit/Loss percentage
  - Next entry/exit points
4. Watching total account balance
5. High level security
6. Accurate calculations
7. Data access

## Non- Functional Requirements :

1. Trade through Binance broker site and use the data it provides.
2. Easily understandable UI
3. Each portfolio will use only one strategy and will put all it`s money on one asset at the time
4. Mathematically and processually understand how to divide the overall balance into several people

## System Flows :

