

## Rise & Shine - Initial project documentation

Target release	29/07/2022
Epic	<input checked="" type="checkbox"/> RS-21 - Initial project documentation <b>IN PROGRESS</b>
Document status	<b>DRAFT</b>
Document owner	@ Kat Miksche
Designer	@ Kat Miksche



### Objective

Final project in CFG Nanodegree - SW developer.

Stock market app allowing you track and trade stocks. Manage multiple portfolios and see your gains in friendly graphic interface or check their status via web. Get automated evaluation of stock from machine learning model to help your purchase decisions.



### Success metrics

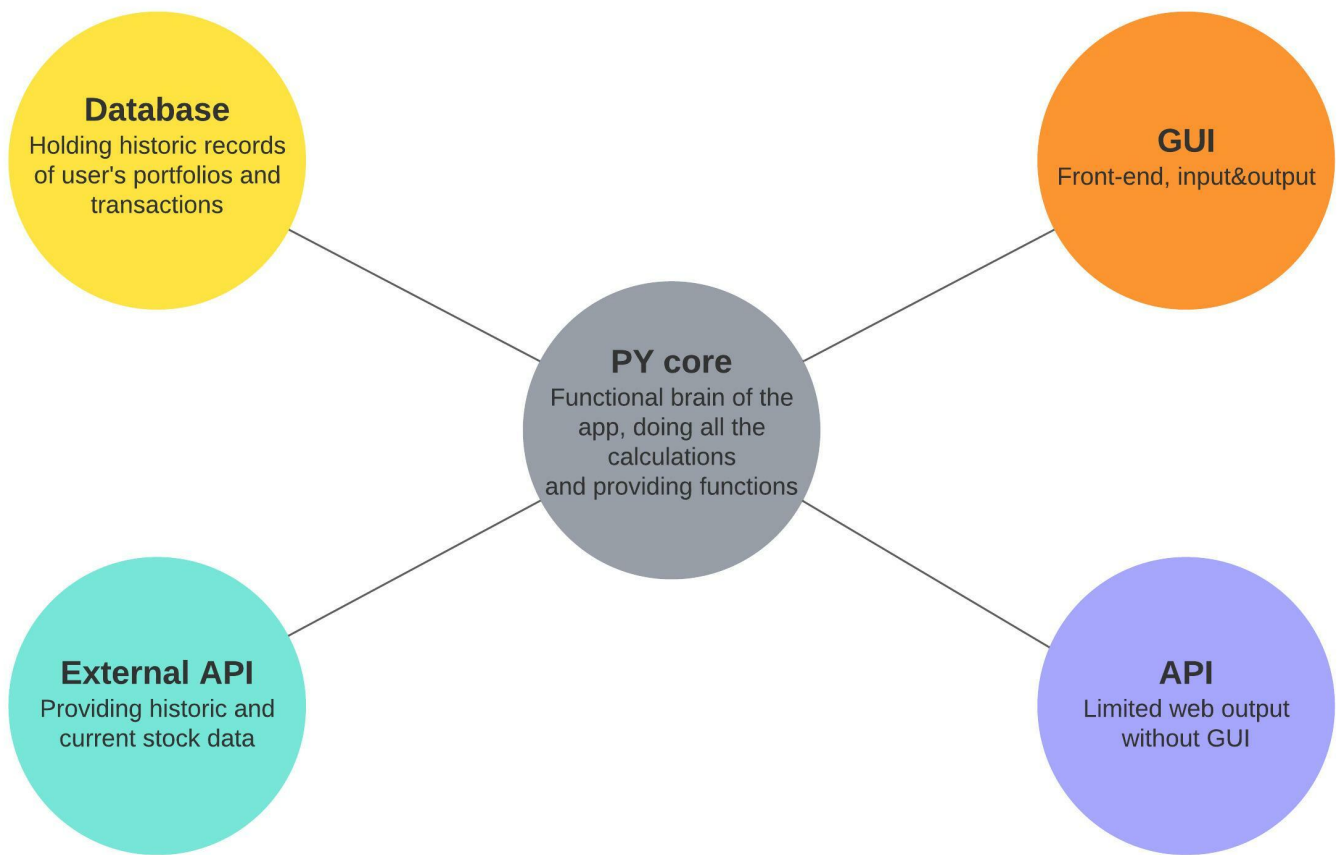
List of project goals:

Goal	Details
Fulfill final project requirements	Use all required technologies and methods
Have working app	PY Core, DB and external API working
Simplify the user experience	GUI
Allow web access	API
Provide automated evaluation of stock	Machine learning

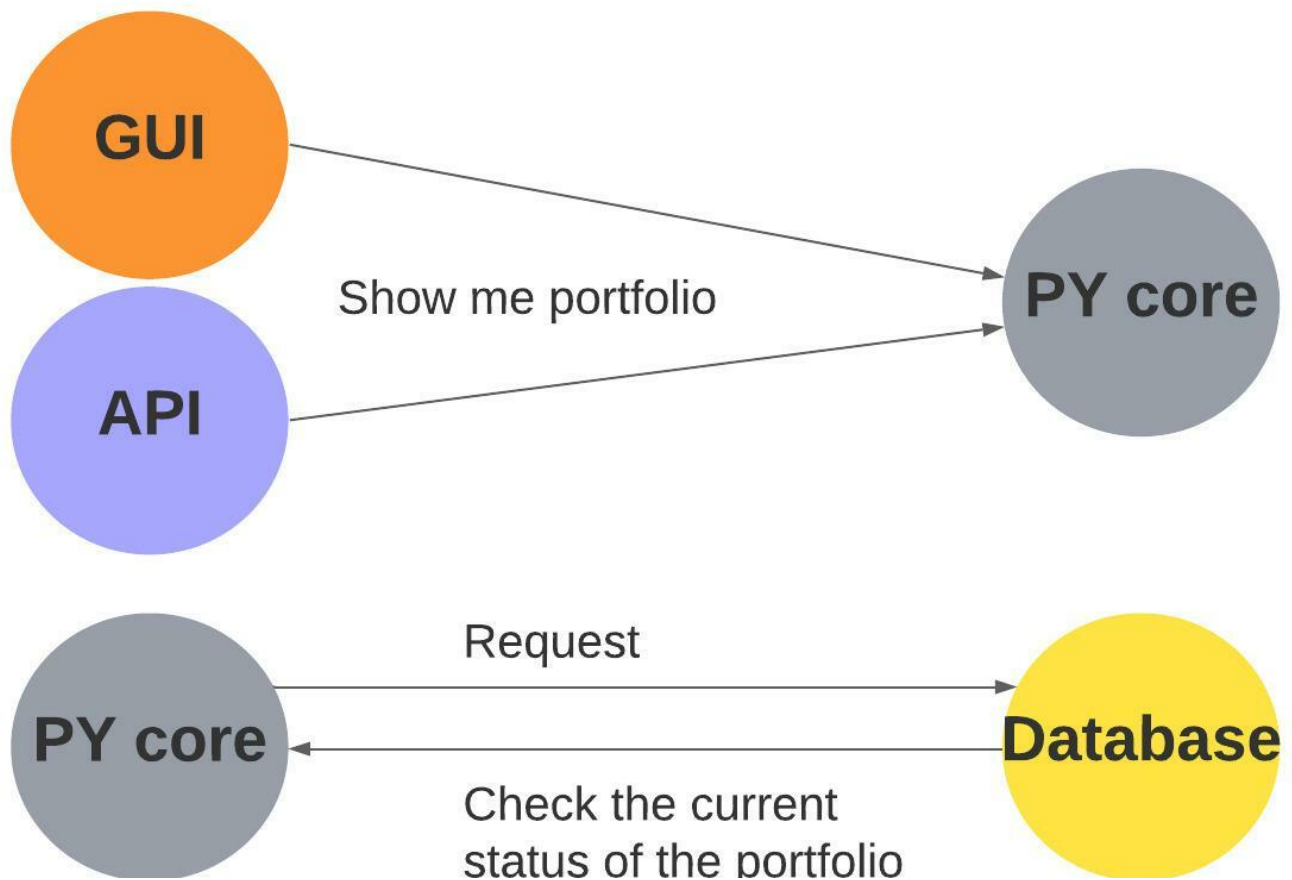


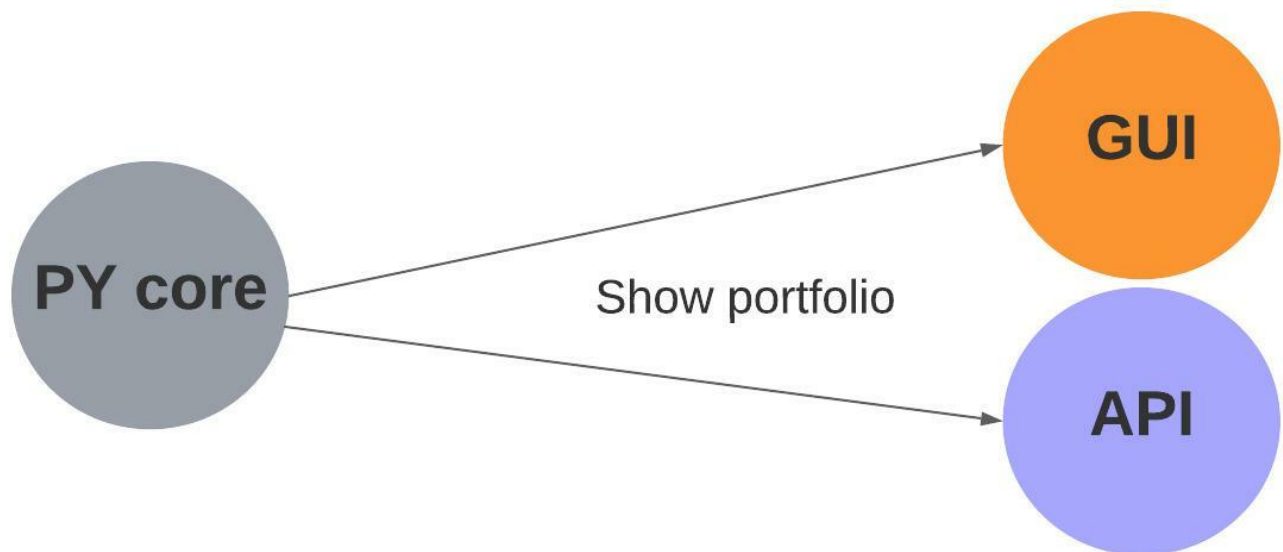
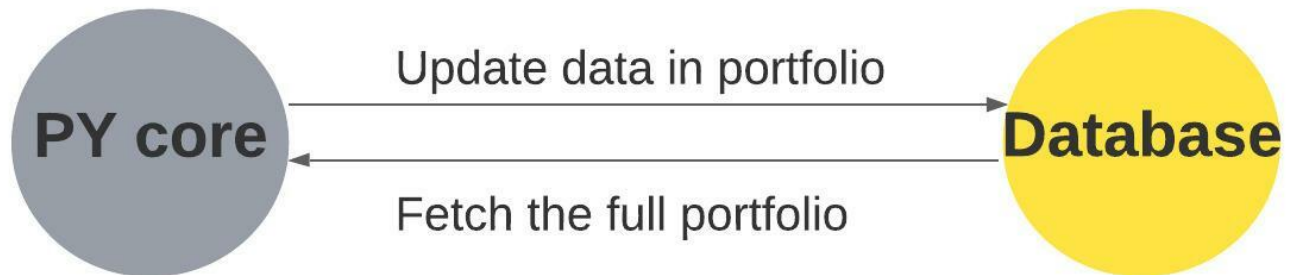
### Specifications and design

Architecture:






Example of function:













 Requirements

Database:

Child issues		Order by	...	+
		0% Done		
	RS-17 Basic architecture	1	KM	TO DO ▾
	RS-18 Indexing and Constrains	1	KM	TO DO ▾
	RS-19 Views	1	KM	TO DO ▾

PY core:

Child issues		Order by	...	+
		0% Done		
	RS-29 init connect to database	1	KM	TO DO ▾
	RS-28 fc update	3	KM	TO DO ▾
	RS-23 load/withdraw money ...	1	KM	TO DO ▾
	RS-27 more portfolios / start ...	1	KM	TO DO ▾
	RS-22 fc close portfolio	2	KM	TO DO ▾
	RS-24 buy stock	2	KM	TO DO ▾
	RS-26 portfolio value overview	3	KM	TO DO ▾
	RS-25 fc check any stock	3	KM	TO DO ▾

API:

## API



To Do ▾

### Description

API to check current portfolios, their tickers and their values, optional to check any ticker

#### Pinned fields



Story point estimate

3



Extensions:



Child issues

Order by ▾



0% Done

 RS-31 evaluate stock by model 5  TO DO ▾

 RS-30 bet on downcrease 0  TO DO ▾

GUI:

## GUI



To Do ▾

### Description

graphical interface for the whole program

#### Pinned fields



Story point estimate

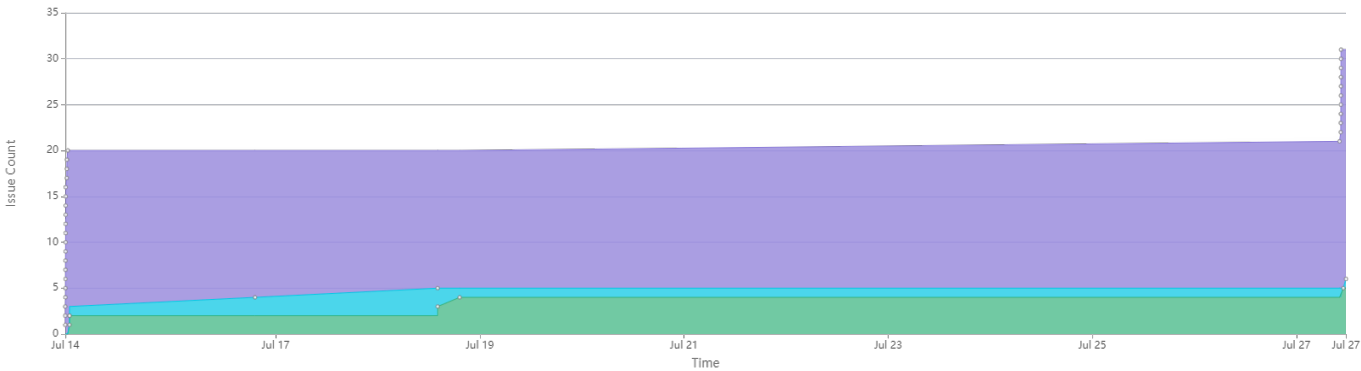
5

Will be done in Tkinter.

☀ Implementation and execution

Roadmap:  
<https://rise-shine.atlassian.net/jira/software/projects/RS/boards/1/roadmap>

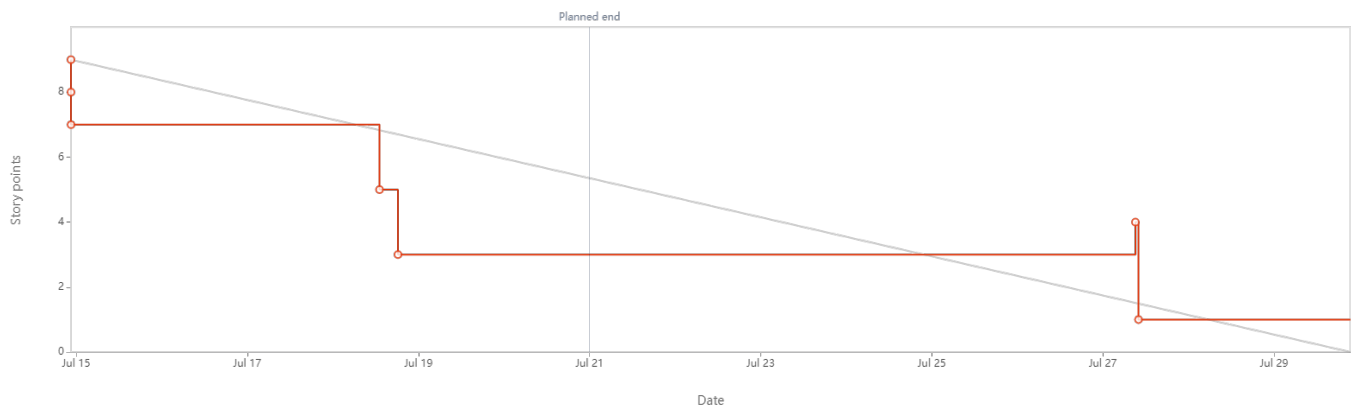
Cumulative flow diagram (29/07/2022):



Sprints planned:

▼ RS Sprint 1 14 Jul – 21 Jul (6 issues)			0 1 9	Complete sprint	...
design of the program					
✓ RS-4 SWOT	DESIGN		1	DONE	KM
✓ RS-5 Backlog, MOSCOW	DESIGN		3	DONE	KM
✓ RS-6 Sprints	DESIGN		1	DONE	KM
✓ RS-7 Find data source - API external	DESIGN		2	DONE	KM
✓ RS-8 DB design	DESIGN		2	DONE	KM
✓ RS-21 Initial project documentation	DESIGN		1	IN PROGRESS	KM
+ Create issue					
▼ RS Sprint 2 21 Jul – 8 Aug (3 issues)			3 1 0	Start sprint	...
✓ RS-9 DB	PROGRAM			TO DO	KM
✓ RS-10 Core	PROGRAM			TO DO	KM
✓ RS-11 API	PROGRAM		3	TO DO	KM
+ Create issue					
▼ RS Sprint 3 9 Aug – 18 Aug (2 issues)			5 0 0	Start sprint	...
✓ RS-20 Extension	PROGRAM			TO DO	KM
✓ RS-12 GUI	PROGRAM		5	TO DO	KM
+ Create issue					
▼ RS Sprint 4 19 Aug – 24 Aug (4 issues)			7 0 0	Start sprint	...
✓ RS-13 Test	DEPLOY		3	TO DO	KM
✓ RS-14 UML diagram	DEPLOY		1	TO DO	KM
✓ RS-15 Documentation and resources to GITHUB	DEPLOY		2	TO DO	KM
✓ RS-16 Presentation	DEPLOY		1	TO DO	KM
+ Create issue					

Sprint1 burndown chart (29/07/2022):



? Open Questions

Question	Answer	Date Answered

! Out of Scope

- Bet on downcrease