

# PowaFinance

Requirements and analysis model

# Product description

- Crisp app for tracking expenses and searching for investment opportunities
- Team: Functor
  - Daniil Slobodeniuk — Project manager, Backend
  - Dmitry Egorov — Product manager, Android
  - Roman Dubinskiy — Business analyst, Frontend, Design
- Features:
  - ❖ tracking daily expenses
  - ❖ purchasing financial assets via third-party investment platform
  - ❖ projecting expenses for the next quarter
  - ❖ top-notch financial news from news agency
- **Project repository:** <https://github.com/SleeplessChallenger/PowaFinance>



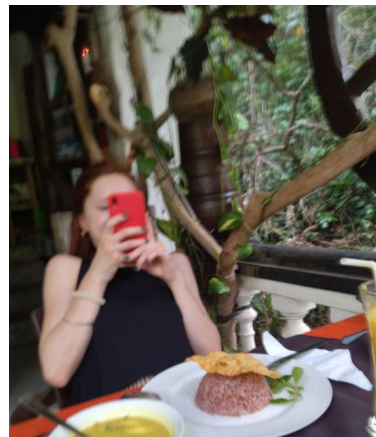
# Personas



Pavel Kozlov

24 y.o, Works at Raiffeisen Bank Russia as Software Engineer. Kotlin/Java Backend Developer. Uses financial app without smart tracking features. Wants to explore personal investment opportunities

[LinkedIn](#)



Valentina

23 y.o.e. student from HSE. Works at VK as frontend developer. Interested in finances and want to know more about them. Has desire to find out more info to manage finances smarter.

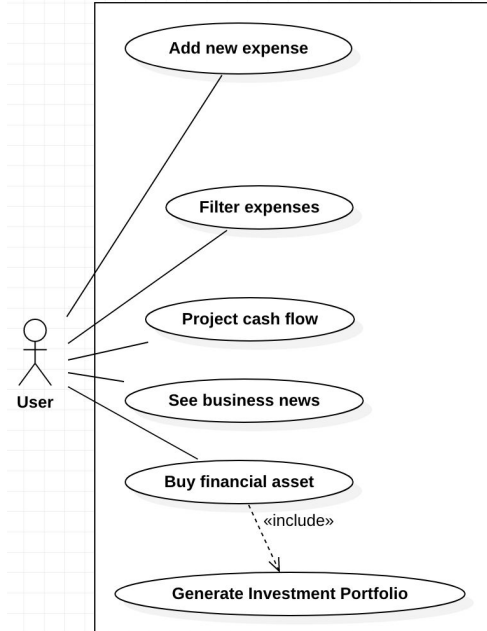
# Story map



See more: [https://github.com/SleeplessChallenger/PowaFinance/blob/master/project\\_resources/asd/Task3](https://github.com/SleeplessChallenger/PowaFinance/blob/master/project_resources/asd/Task3)

# Use case diagram

- Actors: User
- Primary scenario:
  1. A user inputs data:
    - value of expense - required
    - date - required
  2. The System submits a new Expense to the User's Wallet and returns an updated Wallet to the User

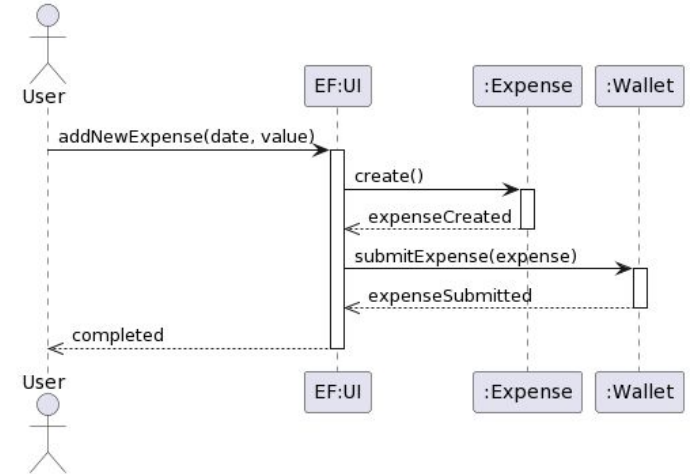
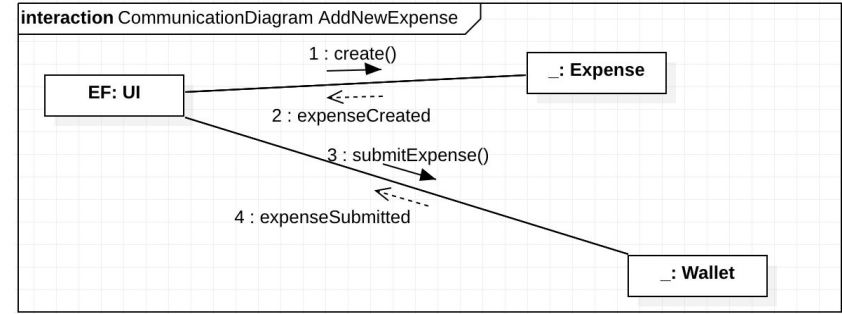


# Interaction analysis

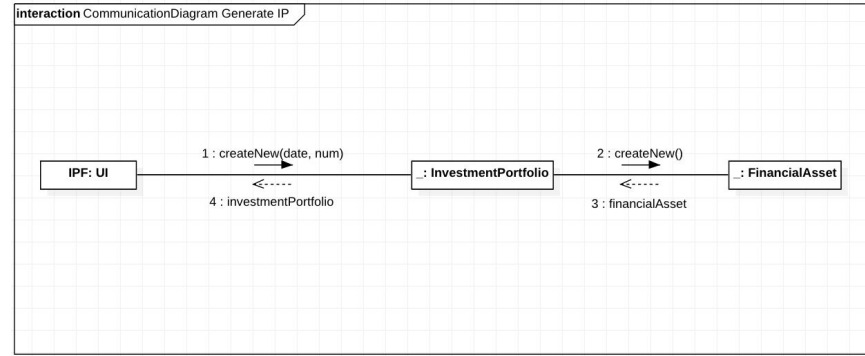
To identify candidate classes: Noun phrases method  
*E.g. A user can add a new expense. The user must enter the date and the value of the expense...*

Class-Responsibility-Collaborator cards

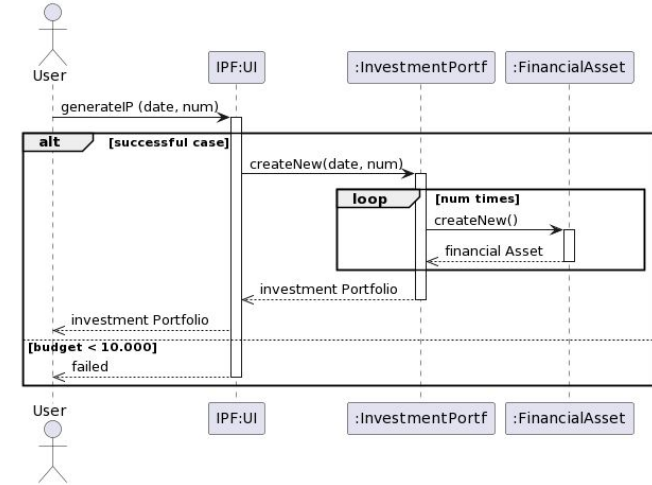
Candidate	Criteria	Stored Information	Operations
User	T		
Expense	SAU	Date Value	Create
Wallet	SIUT	Expenses	Submit expense



# Interaction analysis

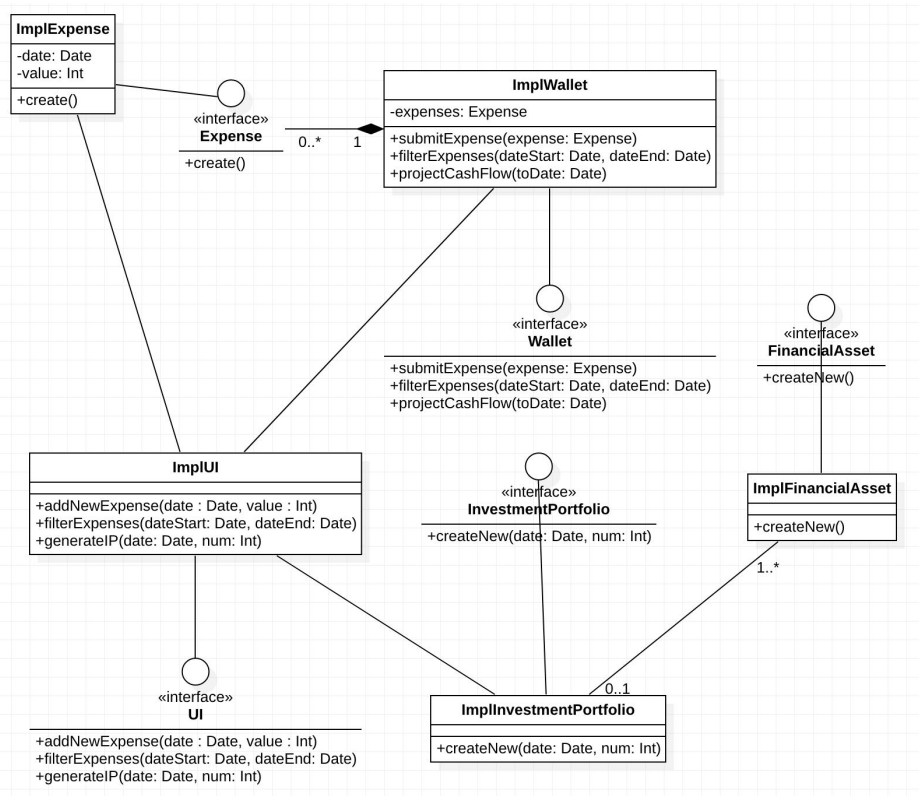


Candidate	Criteria	Stored Information	Operations
User	T		
FinancialAsset	SAU	Price	CreateNew
InvestmentPortfolio	SIUT	FinancialAssets	CreateNew



See more: [https://github.com/SleeplessChallenger/PowaFinance/tree/master/project\\_resources/asd/FinalTask1/Diagrams](https://github.com/SleeplessChallenger/PowaFinance/tree/master/project_resources/asd/FinalTask1/Diagrams)

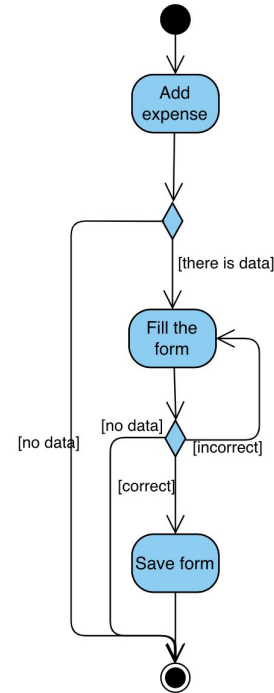
# Final class diagram





# Detailed behavior

Use Case: Add new expense



See more: [https://github.com/SleeplessChallenger/PowaFinance/tree/master/project\\_resources/asd/FinalTask1/Diagrams](https://github.com/SleeplessChallenger/PowaFinance/tree/master/project_resources/asd/FinalTask1/Diagrams)

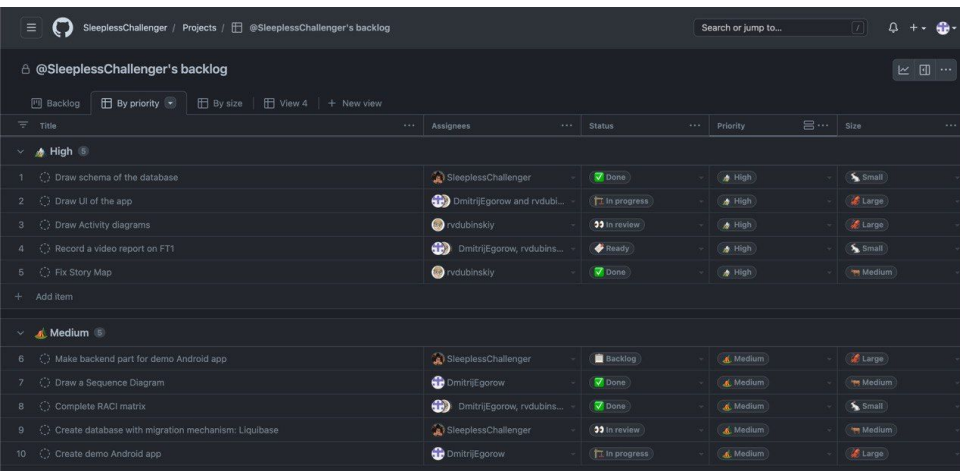
# Repository structure

See more:

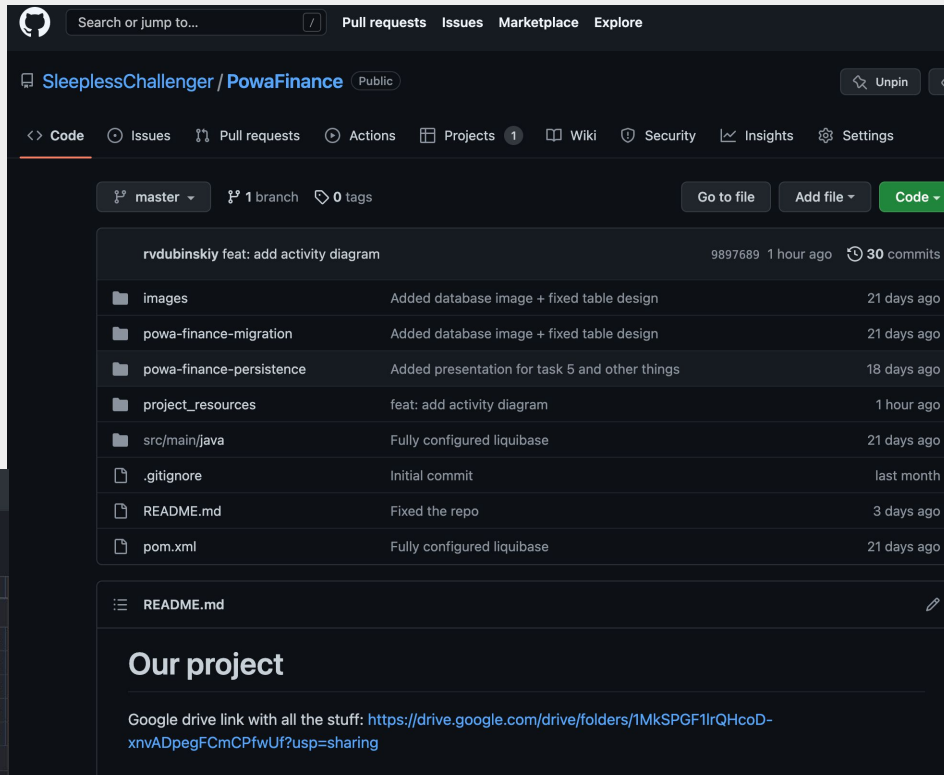
[https://github.com/SleeplessChallenger/PowaFinance/tree/master/project\\_resources/asd/FinalTask1/RepositoryStructure](https://github.com/SleeplessChallenger/PowaFinance/tree/master/project_resources/asd/FinalTask1/RepositoryStructure)

In the repo you can observe the following structure:

- project\_resources/asd: all tasks for the topics that we covered
- powa-finance-migration: here you can find liquibase migration
- src/main/java: Spring Server
- README.md: all the links and main information



Title	Assignees	Status	Priority	Size
<strong>High</strong>				
1 Draw schema of the database	SleeplessChallenger	Done	High	Small
2 Draw UI of the app	DmitriyEgorov and rvdubinskiy	In progress	High	Large
3 Draw Activity diagrams	rvdubinskiy	In review	High	Large
4 Record a video report on FT1	DmitriyEgorov, rvdubinskiy	Ready	High	Small
5 Fix Story Map	rvdubinskiy	Done	High	Medium
<strong>Medium</strong>				
6 Make backend part for demo Android app	SleeplessChallenger	Backlog	Medium	Large
7 Draw a Sequence Diagram	DmitriyEgorov	Done	Medium	Medium
8 Complete RACI matrix	DmitriyEgorov, rvdubinskiy	Done	Medium	Small
9 Create database with migration mechanism: Liquibase	SleeplessChallenger	In review	Medium	Medium
10 Create demo Android app	DmitriyEgorov	In progress	Medium	Large



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rvdubinskiy feat: add activity diagram 9897689 1 hour ago 30 commits

images	Added database image + fixed table design	21 days ago
powa-finance-migration	Added database image + fixed table design	21 days ago
powa-finance-persistence	Added presentation for task 5 and other things	18 days ago
project_resources	feat: add activity diagram	1 hour ago
src/main/java	Fully configured liquibase	21 days ago
.gitignore	Initial commit	last month
README.md	Fixed the repo	3 days ago
pom.xml	Fully configured liquibase	21 days ago

README.md

## Our project

Google drive link with all the stuff: <https://drive.google.com/drive/folders/1MkSPGF1rQHcoD-xnvADpegFCmCPfwUf?usp=sharing>

# Team and roles

Daniil Slobodeniuk	@SleeplessChallenger	Resp. for UCs: See BN, Log in, Proj CF
Dmitry Egorov	@dmitrijegorow	Resp. for UCs: Add NE, Filter E, Gen IP
Roman Dubinskiy	@rvdubinskiy	Resp. for UCs: Buy FA, Gen IP, See BN

