Vision Doc of Sofware Engineering project - Planner

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The idea for the project is to create a planner to organize users' plans. Due to the convenience, transparency, and the possibility of access from various devices, as well as easy sorting of information, the application will connect to the global database. The final project involves creation of a convenient, legible, and useful planner. Due to the specification of the project's requirements, we will focus on writing essential functions that can be easily expanded or adapted to a specific group of users in the future. The project will use the Rust language. It will be a desktop application for Windows or Linux.

Team members:

- Rafał Szulc
- Adam Boguszewski
- Wojciech Przytuła
- Maciej Herdon

Assumptions of the first iteration:

- Learning to work as a team, establishing the detailed functions and possibilities of the planner to maximize its usefulness.
- Learning the Rust language that we want to use in our project.
- Creating a well-thought-out database that is easy to expand in the future, adapted to logging and scheduling functions. (script in SQL)

- Ability to perform any transactions with the database.
- Creating an engine for adding, removing, searching, displaying and modifying events.
- Creating CLI.
- One user only.

Assumptions of the second iteration:

- Creating a GUI for our application.
- Enabling user logging in.
- Alerting the user about upcoming events.

Assumptions of the third iteration:

- Developing the scheduling capabilities so that users can use them clearly, have easy access to certain information. (e.g., a specific type of day events)
- Possibility to edit flags (e.g., completed, under construction, in the future) of events.
- Polishing the interface, adding various small functionalities regarding practical usage of the application.

Possible further steps in the future (the project requires writing the majority part of a large project, so here are possible further steps in the development of the planner):

- More functions to make it easier for the user to read the information from the planner, more sophisticated and specific than those in the third iteration.
- Creating an Android version so the planner can be used on mobiles.
- Due to the inscription of the project so that it is easy to develop, it can be customized for a specific company or group of users.
- Creating a website version.

- Adding option to export data into txt files.

After each iteration, the code will compile and will have visible effects. There is a possibility that we will include some of the further steps in the third iteration or there will be small changes in iterations themselves.