

## Criterion A: Planning

### Identifying the problem

Client Ms xx is a general manager of ProProperty company and is responsible for the real estate residential project development of the WILLA Kępa Potocka. She is in charge of overseeing the stage of construction of the apartments, as well as the sale of the real estate. Thus, it is important for her to maintain a good relationship with the clients/possible buyers. She does that by keeping track of the information in a notebook, including the client their name, contact information, whether they have previously bought an apartment from her, qualities they want in an apartment. She also writes down, any notes on the client, whether they are likely to buy the apartment very quickly or if they will need a mortgage loan. When a new client calls, Ms xx has to suggest the best-suited apartment for the qualities they are looking for, being able to list out parameters for each apartment.

I approached Ms xx with a proposition of a program solution for her problem. In a meeting, the client explained that she wants the program to be easy to use with graphics (see Appendix 1).

She also mentioned that the district a client lives in is a thing on which she classifies them, as in different districts in the city the price ranges of apartments differ and therefore some clients are more likely than others to buy the apartment. With such great importance of the districts in the sale process of the apartments, she remembers the clients based on them.

### Rationale for the Solution

My program will provide Ms xx with access to the client's information based on which district they live in and the ability to add new clients to the database by handling a text file using methods from FileWriter, FileReader and BufferedReader classes. It will also propose the best apartment(s) matched for a client based on the wanted qualities and display information on each apartment. The interface will have graphics of both the building and layout for all of the apartments.

I want to do the program in Java based on the following reasons. It allows me to make a user friendly GUI interface, with buttons, lists and many more for clear display and easy input of the information. The language is free, platform-independent and having been learning it at my school, it is the one I am most familiar with. I will be writing the program in the BlueJ development environment as it allows for easy debugging by showing any run time errors.

**word count: 417**

### Success criteria

- The program allows the client to add a new possible buyer with details (writing into a text file)
- Easy to navigate GUI interface with graphics of the apartments
- The program will suggest the apartment most suitable for the criteria wanted by the customer
- The program will display all information on a selected client (reading from a text file)
- The program will show all the information on a selected apartment
- The program allows search for a client in a selected district