**Book recommendation system**

**Developed by TEAMENT:**

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The aim of the project “book recommendation system” is to create a numeric tool that will suggest books to readers based on their profiles and previous reading.

Users can register the database, enter what books they have read and get new books recommended for them.

The recommendation algorithm is based on a mathematic formula that computes the similarity between readers.

There is no GUI (graphic user interface), we use the terminal as support.

And because we know terminal is not always easy to understand, we made it explicit and clear so that anyone can use the “book recommendation system”.

Firstly, we decided to put ourself 3 main goals that will be our red line:

* We wanted to have 1 file by part. So, there are 3 python files (.py) that contain the 3 parts of the project (readers part, books part, recommendation part). And one main.py python file, managing the run of the three other ones.
* We also wanted to have a **clear interface**. At first, we wanted to make a GUI but we realized that we had done a huge work on making the terminal interface shapely. So, we decided to continue the terminal interface and make it even more clear.
* And finally, we wanted the user to have the possibility to **back or exit** the program at any time.

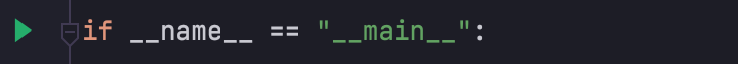
**Exit System:**

In order to be able to exit the program, every function with an input returns a variable that we called “power”.

If the function returns a power equal to 1 the program keeps going.

Otherwise, if power returned is equal to 0, all the functions that called this function return power = 0 as well until the main program that check if power == 0. If it is, it displays “Hope you enjoyed! Bye!” and the program ends.

We started developing by the **main file**.

This file, (after imports) starts by the  that runs the main program.

This program permits the user to choose between the functions of the 3 parts he wants to access.

He has to type 1 to access part 1 functions, 2 for part 2, etc.

Since we are at the root of the project, the user can’t back.

If he tries, it displays "you cannot go back from here".

Example when we are in the main menu:

