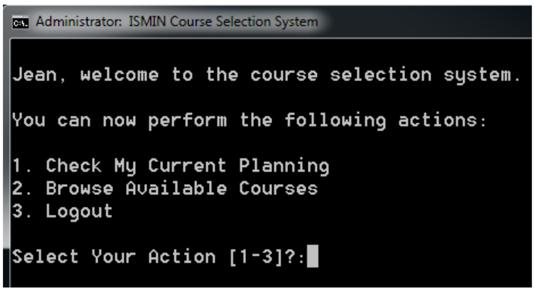
November, 2018

ISMIN 2A TP: UML2POO
Course Selection System (binôme)

Objective: design and implement a simplified course selection system

As a student who needs to select courses, you will firstly login to the system. The system will check your input with the account information stored in the file “account.txt”. Once validated, you will be granted to see the welcome page and options. For example:



```
Jean, welcome to the course selection system.

You can now perform the following actions:

1. Check My Current Planning
2. Browse Available Courses
3. Logout

Select Your Action [1-3]?:
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Entering option 1, you are redirected to see your course selection (which is initially empty) and offered with some options, such as: add more courses and remove a course.
Entering option 2, you are redirected to see all the available courses. You can then choose to add the courses of your interest in your own planning. In a slightly better design, you shall check if certain courses are already selected, and decide not to show or at least mark up the already-selected courses.

One school rule shall be obeyed: the maximal number of courses a student can select is 4, minimal # is 0. It means there shall be the exception handling mechanism when a student has selected 4 courses and wants to add one more.

The course and account data are stored in the two text files and shall be imported in the runtime. You are free to edit them into a more comfortable/convenient format for the development.

What has described above shows only a “minimal” implementation. Use your imagination to enhance it by creating more data files, imposing other rules (# of students registered in one course cannot exceed 25), offering more options (e.g., save planning), etc.

To evaluate this TP, you have to deliver a report (**in PDF format**) explaining your design (UML) and implementation (POO). The linkage between the two subjects will be the critical focus. Therefore, the report should be composed of two parts:

1. UML diagrams (at least Use-Case diagram and Class diagram, other diagrams will be the bonus)
2. C++ source codes

Please upload a report/compte-rendu here: https://seafile.emse.fr/u/d/2980dfa745674689af45/
Deadline: **no later than 23h59:59 Dec. 7, 2018**