

Implement an Education Portal program to help users improve their skills by completing various courses.

The course consists of a set of materials and a list of skills that the user will acquire after completing the course.

If several courses contain the same material, after passing this material in one course, it will be automatically enrolled in another course.

Course materials can be of three types: video materials, electronic copies of printed publications, or online articles.

All types of materials have unique fields characteristic of a certain type, so for videos, it is duration and quality, for books, the author(s), the number of pages, format, and year of publication, and for articles, the date of publication and the resource on which this article is located.

To create courses, the user has the appropriate functionality.

When adding a course, the user must give it a name, add a short description, and add a list of materials and a corresponding list of skills that will be obtained after completing it.

You can add materials from the list in the system (previously added) to the course or add a new one.

A course can contain a different number of materials and their number is not limited for each course.

After passing each course, the user receives a certain number of skills defined in the course. If, after completing the course, the user already has skills that are the same as in the course, then the level of these skills increases by one point.

The user also has the opportunity to view the list of courses that are available to him, the list of courses that he has completed, the list of courses that he is currently in the process of studying, and the percentage of completion of these courses.

The user also has the opportunity to view his personal information and a list of his skills and their levels.