

Assignment requirements

Prescription Course Management System

This case study is relatively straightforward, and hence can be tackled by most beginning modelers fairly effortlessly.

Background

A School wishes for us to design and develop an automated Course Management System (CM). The requirements are as follows:

The system is to keep track of the following information for each course:

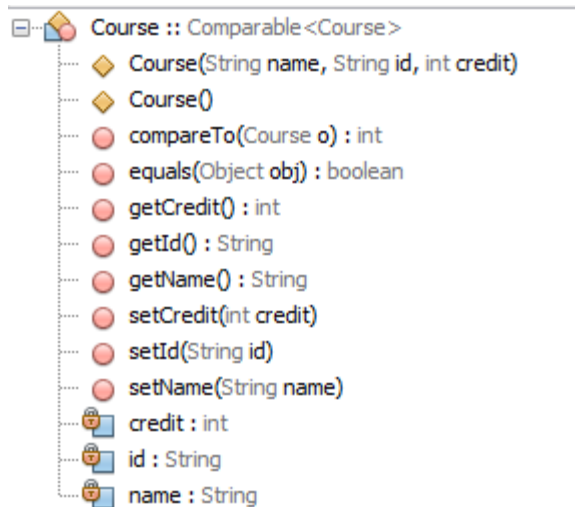
- Course id as a string
- Course name as a string
- Number of credit as a whole number

The system is required to support the following queries:

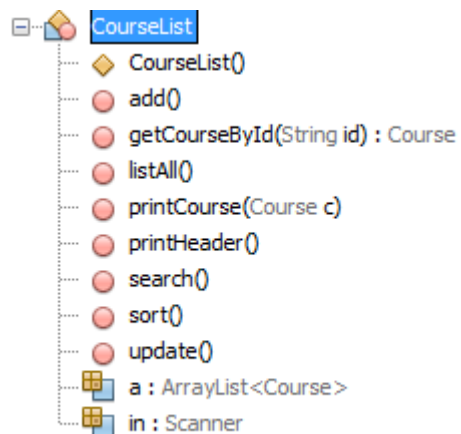
1. A list of all available courses in the system
2. Search and display information of a course by course id
3. Record/Add information of course
4. Sort all courses by number of credit as ascending
5. Update information of a specific course (by course id)

You should des:

1. Course class: This will hold the information of course and add some needed operation.



2. `CourseList` class: This will hold and manage the list of courses, the list of courses can be used as collection.



3. And finally, make your own main function and test all the above operations

The program output might look something like:

COURSE MANAGEMENT SYSTEM

1. A list of all available courses in the system
2. Search and display information of a course by course id
3. Record/Add information of course
4. Sort all courses by number of credit as ascending
5. Update information of a specific course (by course id)
0. Exit

Select your choice: 3

Enter course id: PRO192

Enter course name: OOP with Java

Enter course credit: 3

Information of course has been added

COURSE MANAGEMENT SYSTEM

1. A list of all available courses in the system
2. Search and display information of a course by course id
3. Record/Add information of course
4. Sort all courses by number of credit as ascending
5. Update information of a specific course (by course id)
0. Exit

Select your choice: 1

Course id	Course name	Course credit
PRO192	OOP with Java	3

COURSE MANAGEMENT SYSTEM

1. A list of all available courses in the system
2. Search and display information of a course by course id
3. Record/Add information of course
4. Sort all courses by number of credit as ascending
5. Update information of a specific course (by course id)
0. Exit

Select your choice: 5

Enter course id: PRO192

Information of course

PRO192	OOP with Java	3
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Enter new course credit: 4

Information of course has been updated

COURSE MANAGEMENT SYSTEM

1. A list of all available courses in the system
2. Search and display information of a course by course id
3. Record/Add information of course
4. Sort all courses by number of credit as ascending
5. Update information of a specific course (by course id)
0. Exit

Select your choice: 1

Course id	Course name	Course credit
PRO192	OOP with Java	4

COURSE MANAGEMENT SYSTEM

1. A list of all available courses in the system
2. Search and display information of a course by course id
3. Record/Add information of course
4. Sort all courses by number of credit as ascending
5. Update information of a specific course (by course id)
0. Exit

Select your choice: 2

Enter course id: pro192

Information of course

PRO192 OOP with Java

3