

C.E.G.M.S. User Documentation

Overview of Menu Options

The CourseManagementCLI class provides a user interface through a command-line menu. Each option in the menu corresponds to a specific operation within the system.

Menu Option Details

1. Add New Course

Description: This option allows the administrator to add a new course to the system.

How to Use:

- Select this option by entering 1.
- When prompted, enter the course code, course name, and maximum capacity.
- The course will be added to the system, and a confirmation message will be displayed.

Example:

Enter Course Code: C106

Enter Course Name: Secrets of the Philosopher's Stone

Enter Maximum Capacity: 40 (To test capacities, either lower this number when using an instantiated course, or set value to desired integer for new course.)

Course added successfully.

User Note:

The program initializes with 5 sample students to start with. Current Student information is available through 'Option 5 - "View Student Details"' (Program is currently locked to these sample students)

Student #1 - Name: "Izumi Curtis", ID"S1001"

Student # 2 - Name: "Roy Mustang", ID"S1002"

Student # 3 - Name: "Scar", ID"S1003"

Student # 4 - Name: "Edward Elric", ID"S1004"

Student # 5 - Name: "Alphonse Elric", ID"S1005"

2. Enroll Student in Course

Description: This option is used to enroll a specific student in a chosen course.

How to Use:

- Select this option by entering 2.
- When prompted, enter the student's ID and the course code.
- The system enrolls the student in the course if both exist and capacity allows, then displays a confirmation.

Example:

Enter Student ID: S1001

Enter Course Code: C101

Student enrolled successfully.

User Note:

The program initializes with 5 sample courses to start with, and can be viewed with "Option 6 - View All Available Courses" on program startup. (Using Option 1 to "Add new course" will overwrite these options if the same course ID's are assigned.)

Course Code: C101 Course Name: Transmutation 101

Course Code: C102 Course Name: Elixir Crafting

Course Code: C103 Course Name: Elemental Fusion

Course Code: C104 Course Name: Artisan Alchemy: Bringing Art to Life

Course Code: C105 Course Name: Intro to Chimeras

3. Assign Grade to Student

Description: Administrators can assign a grade to a student for a particular course using this option.

How to Use:

- Select this option by entering 3.
- Input the student's ID, course code, and the grade to be assigned.
- The system assigns the grade and confirms the operation.

Example:

Enter Student ID: S1001

Enter Course Code: C101

Enter Grade: A

Grade assigned successfully.

User Note:

System uses a letter grade system consisting of the following: A,B,C,D,F

4. Calculate Overall Grade for Student

Description: This option calculates and displays the overall grade for a specific student based on their course grades.

How to Use:

- Choose this option by entering 4.
- Enter the student's ID.
- The system calculates and displays the student's overall grade.

Example:

Enter Student ID: S1001

Overall Grade for S1001: B

5. View Student Details

Description: This option gives a list of the student's currently assigned information including:

- Name
- ID
- Courses
- Grade Per Course
- Overall Grade

How to Use:

- Choose this option by entering 5.
- Enter the student's ID.
- The system calculates and displays the student's overall grade.

Example:

Enter Student ID: S1001

Student Name: Izumi Curtis

Student ID: 1001

Enrolled Courses and Grades:

Course: Transmutation 101	Grade: "B"
Course: Elixir Crafting	Grade: "B"
Course: Elemental Fusion	Grade: "B"

Current Overall Grade: B

6. View All Available Courses

Description: This option gives a list of courses that are currently available in the system.

How to Use:

- Choose this option by entering 6.
- Displays a list of currently added courses by-
 - Course Code
 - Name
 - Max Capacity

Example:

Course Code: C101 Course Name: Transmutation 101

Course Code: C102 Course Name: Elixir Crafting

Course Code: C103 Course Name: Elemental Fusion

Course Code: C104 Course Name: Artisan Alchemy: Bringing Art to Life

Course Code: C105 Course Name: Intro to Chimeras

7. Exit

Description: Selecting this option exits the program.

How to Use:

- Enter 7 to close the program.

Other User Notes

- Input Accuracy: Ensure that the inputs (student IDs, course codes, grades, etc.) are accurate to avoid errors.
- Case Sensitivity: Be mindful of case sensitivity in student IDs and course codes.
- Error Handling: The system handles basic errors such as invalid options or full course enrollments.
- Data Persistence: In the current implementation, data is not persisted between runs of the program.
- Testing and Validation: Use the provided sample data for initial testing and familiarization with the system's functionalities.