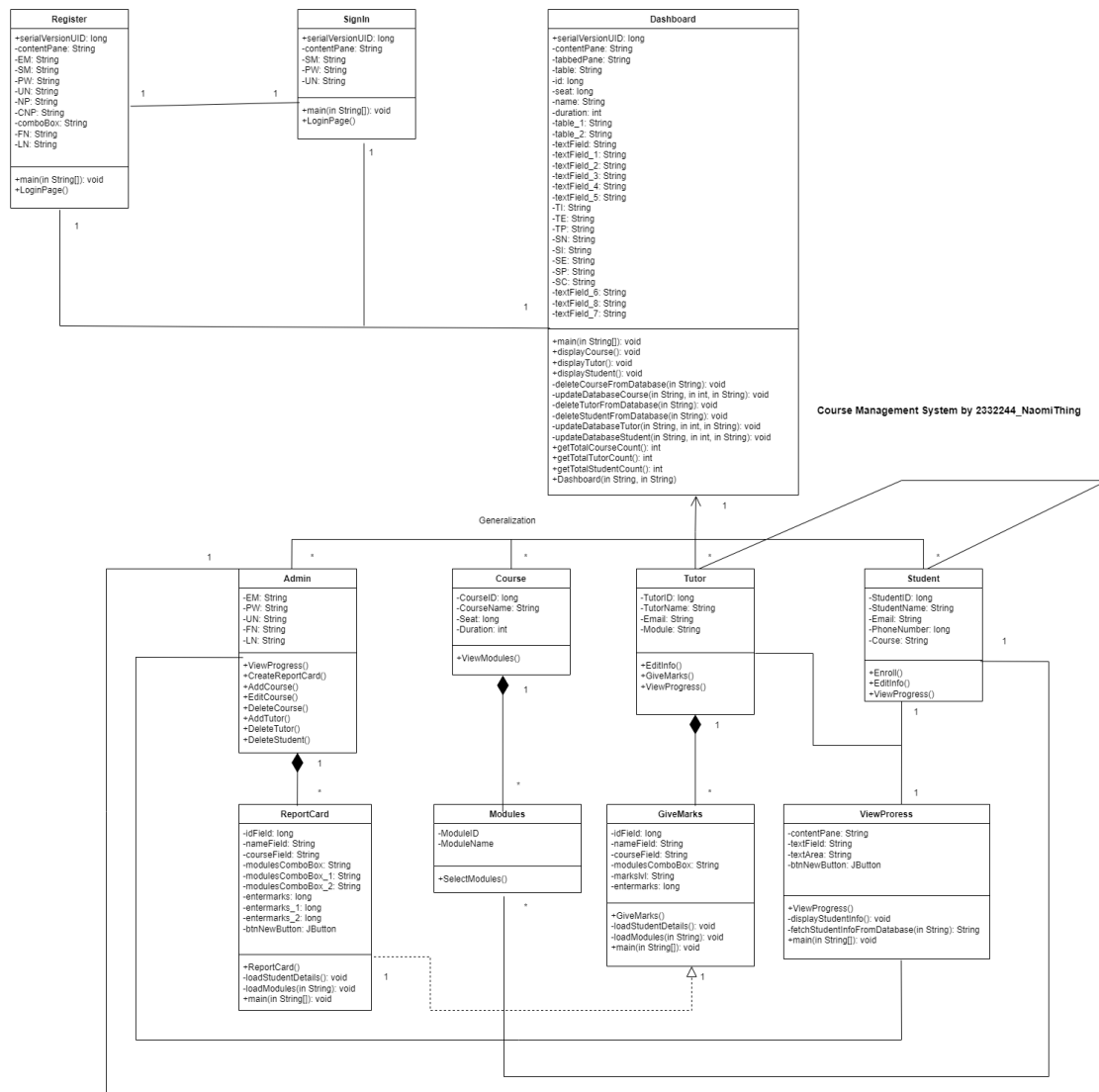


## 1. UML diagram



A Course Management System, as shown in the UML diagram, is a desktop application that oversees courses and modules. `Register`, `SignIn`, and `Dashboard` are the core classes of the system. User registration is managed by the `Register` class using data found in the "info" table of the "CMS" database. `SignIn`, which leads users to the `Dashboard` following a successful login, simplifies the process of verifying credentials. With configurable access to system modules and functions, the `Dashboard` changes its presentation based on the user's chosen mode.

## **2. Division of Work**

### **Admin:**

- Capable of adding, changing, or removing courses,
- Able to add and remove tutors,
- Able to remove Students,
- Constructs a report card,
- Examines the students, courses, and tutors,
- Reviews the progress report.

### **Instructors:**

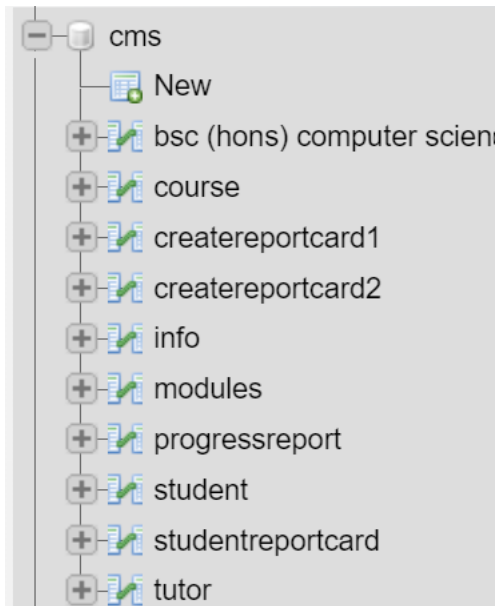
- Able to update their data,
- Give the students their grades,
- View the course, students, and tutors.
- Review the report on progress.

### **Students:**

- Capable of enrolling,
- Modify their information,
- Check out their progress report,
- View students, instructors, and courses.

## Screenshots of the databases:

### Database with tables:



### Info Table:

| Firstname | Lastname | Email              | Username    | Password   | Mode       |
|-----------|----------|--------------------|-------------|------------|------------|
| Naomi     | Thing    | naomi121@gmail.com | nahyuhmeh_1 | naomi@123  | Admin      |
| Tarang    | Regmi    | trgrtrg@reg.com    | trgrtg121   | trg123     | Student    |
| Jenny     | Rajak    | jenny@hck.com      | jennyjen    | jennyjen12 | Instructor |
| Saksham   | Sharma   | saksam@sar.com     | saksar1     | saksar1    | Student    |
| Shubham   | Shrestha | shubs@2.com        | hrishub     | hrishub2   | Student    |
| Viraj     | Subedi   | viru@sube.com      | virusube    | virusube   | Student    |

### Course Table:

2332244  
Naomi Thing  
Course Management System  
5CS019

| CourseID | CourseName                  | Seat | Duration |
|----------|-----------------------------|------|----------|
| NEO23    | Bsc (Hons) Computer Science | 2000 | 3 years  |

### Student Table

| StudentID | StudentName      | Email         | PhoneNumber | Course                                       |
|-----------|------------------|---------------|-------------|--|
| 2332941   | Tarang Regmi     | trg@reg.com   | 9800000000  | Bsc (Hons) Computer Science                  |
| 2122223   | Saksham Sharma   | sak@sar.com   | 9800000000  | Bsc (Hons) International Business Management |
| 2122132   | Shubham Shrestha | shubs@2.com   | 9800000000  | Bsc (Hons) Computer Science                  |
| 2329762   | Viraj Subedi     | viru@sube.com | 9800000000  | Bsc (Hons) Computer Science                  |

### Tutor Table

| TutorID | TutorName      | Email         | Module |
|---------|----------------|---------------|--------|
| 1234567 | Jenny Rajak    | jenny@hck.com | C      |
| 7654321 | Ronit Shrestha | ronit@hck.com | AI     |

### Module Table

| CourseName                                   | Module1          | Module2 | Module3 |
|--|------------------|---------|---------|
| Bsc (Hons) Computer Science                  | OODP             | C       | AI      |
| Bsc (Hons) International Business Management | Business Studies | Finance | HM      |

### Progress Report Card Table

| StudentID | StudentName    | Course                                       | Modules          | MarksObtained |
|-----------|----------------|--|------------------|---------------|
| 2332941   | Tarang Regmi   | Bsc (Hons) Computer Science                  | C                | 90            |
| 2122223   | Saksham Sharma | Bsc (Hons) International Business Management | Business Studies | 46            |
| 2332941   | Tarang Regmi   | Bsc (Hons) Computer Science                  | AI               | 56            |

2332244  
Naomi Thing  
Course Management System  
5CS019

### Create Report Card 1 Table

| StudentID | StudentName  | Course                      | OODP | C  | AI |
|-----------|--------------|-----------------------------|------|----|----|
| 2332941   | Tarang Regmi | Bsc (Hons) Computer Science | 66   | 56 | 76 |

### Create Report Card 2 Table

| StudentID | StudentName    | Course                                       | BusinessStudies | Finance | HotelManagement |
|-----------|----------------|--|-----------------|---------|-----------------|
| 2122223   | Saksham Sharma | Bsc (Hons) International Business Management | 34              | 45      | 56              |