

College Information System

(1) Classes Identification

→ User, Admin, Teacher, Librarian and Student,
(Superadmin) Event, Book

So, classes are: -

- User
- Admin
- Teacher
- Librarian
- Student
- Event
- Book

Attributes and operations

User: Attributes: Name, Email, DOB, Mobile, Address
operation: login(), viewdata(), update data().

Admin: Attributes: id, password.

operation: Add Student, Add Teacher, Add Admin, View Event
Add: Event(), add Time table, view data()

Librarian:

operation: addbook(), update book(), newbook(),
issuebook().

Book:

attribute: title, author, ISBN.

operation: getbook().

Event: attribute: date, time, location

operation: update event().

Teacher: attribute: department, Subject, class, degree

post
operation: Add assignment(), update assignment(),
upload result().

Student attribute: department, class, year, Semester, e.g.
Operation: new people!, new timetable, new assignments

Multiplicity is btw:

- Event and User with 0..* to 1..*
- Event and Admin with 1 to 0..*
- Book and Librarian with 0..* to 1.

Associations
Association and name

Association b/w the Librarian, Book with 15 books
Event and Admin associations with the Add event
User and Event with the new event

generalization between the User \leftarrow (Admin, Teacher, Student, Librarian)