|  |  |  |
| --- | --- | --- |
| **Potential Classes** | **Potential Associated Properties** | **Potential Associated Methods** |
| Student | * userID * password * email * course(s)   Since course is made up of unitClusters, and unitClusters is made up of units, and units is made up of assignments, and assignments have results. This should trickle back up to the student. | * enrolCourse * deferCourse   A student can enrol in more than one course in one semester. Enrolments must be at the same college.  **A student may not be enrolled in a semester.** |
| Teacher | * userID * password * email * course(s) | A teacher can only teach one cluster in a course. |
| Course | * Course Name * campusLocation * Three modes: Full-time, part-time, online (enum values?) * unitCluster(s) * available location(s) * duration * teachers ?? -> The teachers assigned depend on the course and the location. E.g. Mount Druitt Diploma does not have the same teachers as Granville Diploma   A course is made up of multiple unit clusters, and a cluster is made up of individual units.  Should prob make a unit class.  A course can be taught at more than one college/location. Location must therefore be an assignable property..?  **A teacher can teach more than one course and a course can be taught by more than one teacher ??** |  |
| unitCluster | * unit(s) * teacher |  |
| Unit | * Assignment(s) * Type (core vs elective unit)   A unit may belong to multiple courses.  Since a unit comprises of multiple assignments, should make an assignment class? |  |
| Assignment | * Resource(s) * Due date * Bool Marked * Result * Type (project vs theory exam) |  |
| Timetable | * classTime * classLocation * classTeacher (s)   Since a timetable is made up of multiple classes, and each class have a time, a location, and a teacher. Should prob make a class class. |  |
|  |  |  |
|  |  |  |

# User Stories/Functionalities

* All staff is allocated a user id, password, and an email address
* **Students can enrol in a course by making a payment, which varies from course to course**
* Upon enrolment, students are given a **timetable** which lists the time and locations of the classes and teachers teaching the course/s
* Assignments for each unit can be downloaded
* Assignment solutions can be uploaded
* ~~Users can log in this app with their user id and password~~
* ~~Users are assigned a student id at the time of enrolment~~
* ~~Users are assigned an email address at the time of enrolment~~
* Students can defer their courses and resume it in the future
* Assessments are marked, the results are revealed at the end of the course

Business Requirements

* Be able to search by teacher, and display all the courses and their locations taught by that teacher
* Be able to search by teacher and display the history of all the courses that teacher has ever taught
* Be able to show all teachers teaching in a particular location
* Be able to show teachers teaching at more than one location
* ~~Be able to display all courses, including those that are not offered in any semester~~
* ~~Be able to search by course, and display all subjects for that specific course~~
* ~~Be able to search by course and display the students enrolled in the course~~
* Be able to display the timetable for a specific course
* Be able to display all units and subjects, including those which are not allocated to a course
* Be able to search by student, and display the course results of that student
* Be able to display all students who have not paid the fees