

## Problem: Course Registration Platform

Things:

Student

State: Name, JoinDate, Term, degree, Address, Phone

Behavior: login, register, drop, search

Course

State: Term, ProfessorName, Hours, Description

Platform

State: URL, collection of Courses

Behavior: authorize, register, drop, search

Term

State : Fall2018, Spring 2018

Registration

Behavior: assignStudentToCourse, selectCourse

Student divya

Course myCourse

Platform website

Term fall2018

Registration registration

Confirmation registeredConfirmation

Confirmation waitListConfirmation

Confirmation dropConfirmation

divya.login -> website : authorize

if(authorize is true)

divya.connect -> website : connected

```

divya.findDesirableTerm -> website : term
fall2018=term
if (fall2018 is not empty and fall2018 !=NULL)
    divya.searchCourse -> fall2018 : collection of courses
    divya.findDesirableCourse -> collection of courses : course
    mycourse = course
    response = null
    if course.availableSeats < course.totalSeats
        divya.registerCourse ->mycourse : registeredConfirmation
        course.availableSeats++
        website.assignStudentToCourse -> myCourse, divya, fall2018 :
registration
        response = registeredConfirmation
    else if course.availableWaitList < course.maximumWaitList
        divya.registerCourse ->mycourse : waitListConfirmation
        course.availableWaitList ++
        website.waitListStudentToCourse -> myCourse, divya, fall2018 :
registration
        response = waitListConfirmation
    else
        course.seatsfilled
else
    divya.cantBookAnyCourse
else
    divya.invalidCredentials

```

### **Drop a course:**

```
divya.selectTerm -> fall2018 : Collection of Registered course
```

divya.selectCourse -> Collection of Registered Course : registration

divya.dropCourse -> website, registration : dropConfirmation

website.getCourse -> registration : course

if course. status == "WAITLIST"

    course.waitList --

else

    course.availableSeats ++

    if course.waitList > 0

        website.assignSeatToWaitList -> course

    end

end