

## **Problem: Design a Course Registration Platform**

Things:

Student

Data: Name, ID, term, degree

Behaviors: login, search, compare, register, cancel, drop

School

Data: Name, Authority

Behaviors: create, post, checkholds, checkterms

Course

Data: Name, Prerequisite, Time, Section

Behaviors:

Platform

Data: URL, name

Behaviors: showCourse, confirmRegistration, dropCourse

## **CourseRegistrationPlatform**

Student ching

School neu

Course info

Platform platform

If Platform.isAvailable

neu.loginPlatform -> platform

if indeed.identifyProcessFail

break

else

neu.postcourse -> name, prerequisite, time, sectionAvailable

end

else

neu.retryAfterAWhile

end

ching.loginPlatform

if platform.identifyProcessFail

Break

Else

ching.searchForcourse -> group of courses

ching.findsDesirableCourses -> platform, question, pageNumber: Platform

```
platform = Platform
if platform is not empty
    break
Else
    pageNumber = pageNumber + 1
end
info = Course
if info.hasAvailableSeats
    platform.checkholds
        if ching.hasNoHolds
            platform.checkTimeConflicts
                if ching.hasNoTimeConflicts
                    ching.courseRegistered
                    courseAvailableSeats = courseAvailableSeats + 1
                else
                    ching.hasTimeConflicts
                end
            else
                ching.hasHoldOnAccount
            end
        else
            ching.noMoreAvailableSeats
        end
    else
        ching.noMoreAvailableSeats
    end
End
```