Design a course registration platform

Teachers

Data: name, TeacherID, title, coursesToTeach, emailAddress

Behavior: teach, communicate, LoginToPlatform, add, delete

SchoolStaff:

Data: name, emailAddress, ApproveAuthority

Behavior: approveTheCourseSelect, LoginToPlatform

Students

Data: name, studentID, CoursesTotake, transcript, credit

Behavior: search, compare, add, delete, cancel, MakeACoursePlan, LoginToPlatform

Platforms

Data: approveAuthority

Behavior: approveCourseAdd, comfirmLoginInfro, checkCourseSelect

Courses

Data: name, syllabus, teacher, classroom, totalnum, pre-requirement : collection of Course information

Behavior:

Sequence of invoking behaviors on objects:

Teachers teacher1, teacher2

SchoolStaff staff1

Students student1, student2

Platforms registrationplatform

Courses pre-requirementCourse, course1, course2, course3, course4

Teacher1.loginToPlatform

Teacher2.loginToPlatform

Student1.loginToPlatfrom

Student2.loginToPlatform

Staff1.loginToPlatform

If (courseNumber !=0)

Loop

If (student1.MakeACoursePlan is true and student1.comfirmLoginInfro is true)

//same for student2

Student1.submitCoursePlan

If (Platform. checkCourseSelect is true)

Platform. approveCourseAdd

Student1.courseChoiceResult = success;

Else

// choose a course have pre-request Course but the student did not take

// choose too much course in this semester

If (student1 meet the requirement of choose more courses)

Student.sendEmailtoSchoolStaff -> staff1.approve

Else

Student.search

student.compare -> name, syllabus, teacher, classroom, totalnum, pre-requirement : collection of Course information

student1. Add

Student1.MakeACoursePlan

End

End

Else

Student.search

student.compare -> name, syllabus, teacher, classroom, totalnum, pre-requirement : collection of Course information

student1. Add

Student1.MakeACoursePlan

End

End loop

Else

Platform. sendRemainderToSchoolStaff

If (staff1.comfirmLoginInfro is true)

Staff1.sendEmailToTeacherForCourseAdd

End

If (teacher1.comfirmLoginInfro is true)

Teacher1. AddCourseInPlatform -> course1, course2,course4

End

If (teacher1.comfirmLoginInfro is true)

Teacher2. AddCourseInPlatform ->pre-requirementCourse,course3

End

End