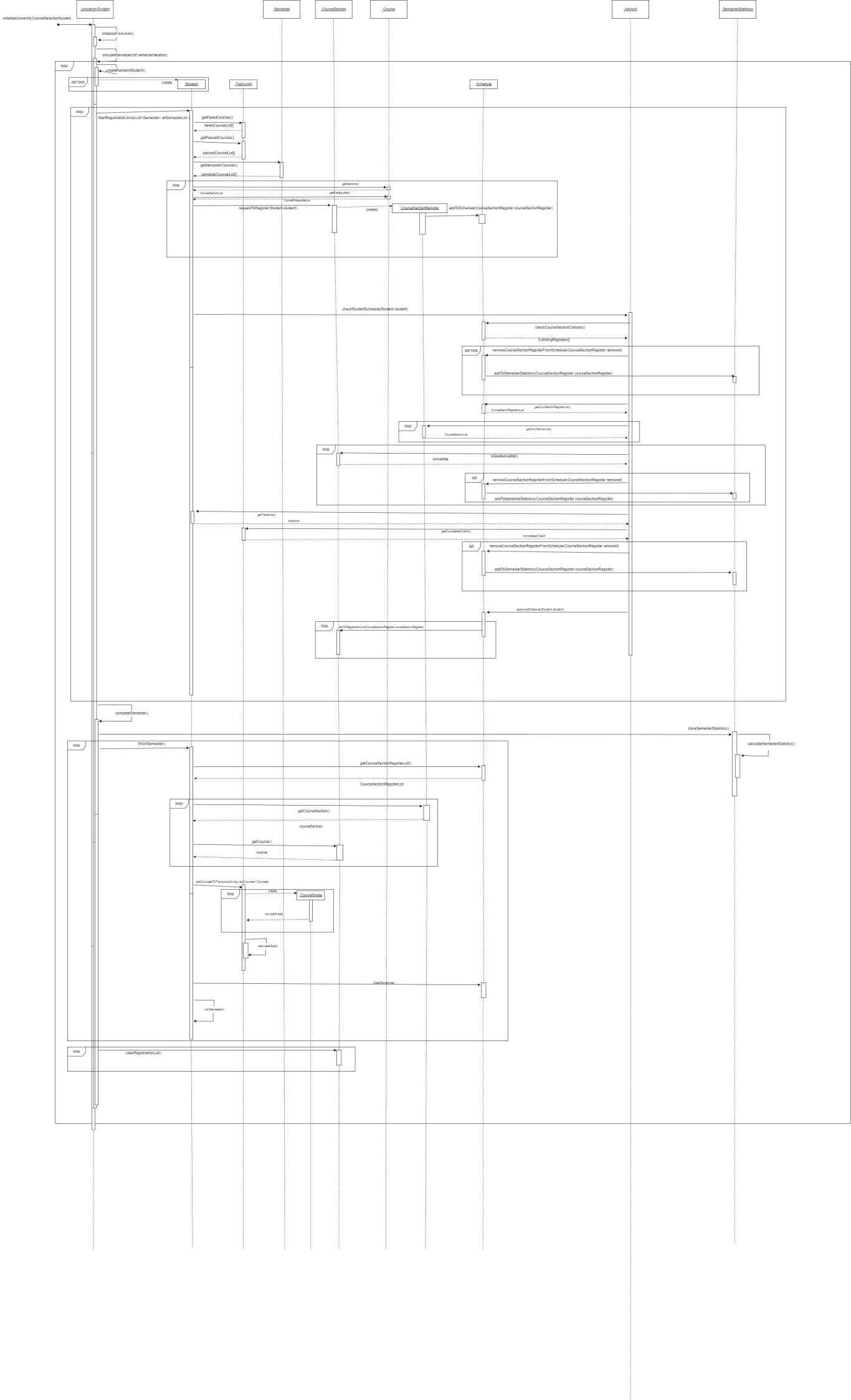
UniversitySystem
Semester
CourseSection
Course
Advisor
SemesterStatistics
initializeUniversityCourseSelectionSystem
initializeFromJson()
simulateSemester(int semesterIteration)
loop
createRandomStudent()
opt loop
create
Student
Transcript
Schedule
loop
StartRegistration(ArrayList<Semester> allSemesterList)
getFailedCourses()
failedCourseList[]
getPassedCourses()
passedCourseList[]
getSemesterCourses()
allSemesterCourseList[]
loop
getSections()
CourseSectionList
getPrerequisite()
coursePrerequisiteList
requestToRegister(Student student)
creates
CourseSectionRegister
addToSchedule(CourseSectionRegister courseSectionRegister)
checkStudentSchedule(Student student)
checkCourseSectionCollision()
collidingRegisters[]
opt loop
removeCourseSectionRegisterFromSchedule(CourseSectionRegister removed)
addToSemesterStatistics(CourseSectionRegister courseSectionRegister)
getCourseSectionRegisterList()
CourseSectionRegisterList
loop
getCourseSectionList()
CourseSectionList
loop
isQuotaAvailable()
isAvailible
opt
removeCourseSectionRegisterFromSchedule(CourseSectionRegister removed)
addToSemesterStatistics(CourseSectionRegister courseSectionRegister)
getTranscript()
transcript
getCompletedCredit()
completedCredit
opt
removeCourseSectionRegisterFromSchedule(CourseSectionRegister removed)
addToSemesterStatistics(CourseSectionRegister courseSectionRegister)
approveSchedule(Student student)
loop
addToRegistrationListCourseSectionRegister courseSectionRegister
completeSemester()
storeSemesterStatistics()
calculateSemesterStatistics()
loop
finishSemester()
getCourseSectionRegisterList()
CourseSectionRegisterList
loop
getCourseSection()
courseSection
getCourse()
course
addCoursesToTranscript(ArrayList<Course> Courses)
loop
creats
CourseGrade
courseGrade
calculateGpa()
ClearSchedule()
incrSemester()
loop
clearRegistrationList()