University of Calgary

Winter 2020

SENG 300 – L01 –T10

Introduction to Software Engineering

Assignment #2

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1)

Assumptions:

Instructors can teach multiple courses. Teaching Assistant can teach multiple courses.

Instructors teaches students and students learn from instructors.

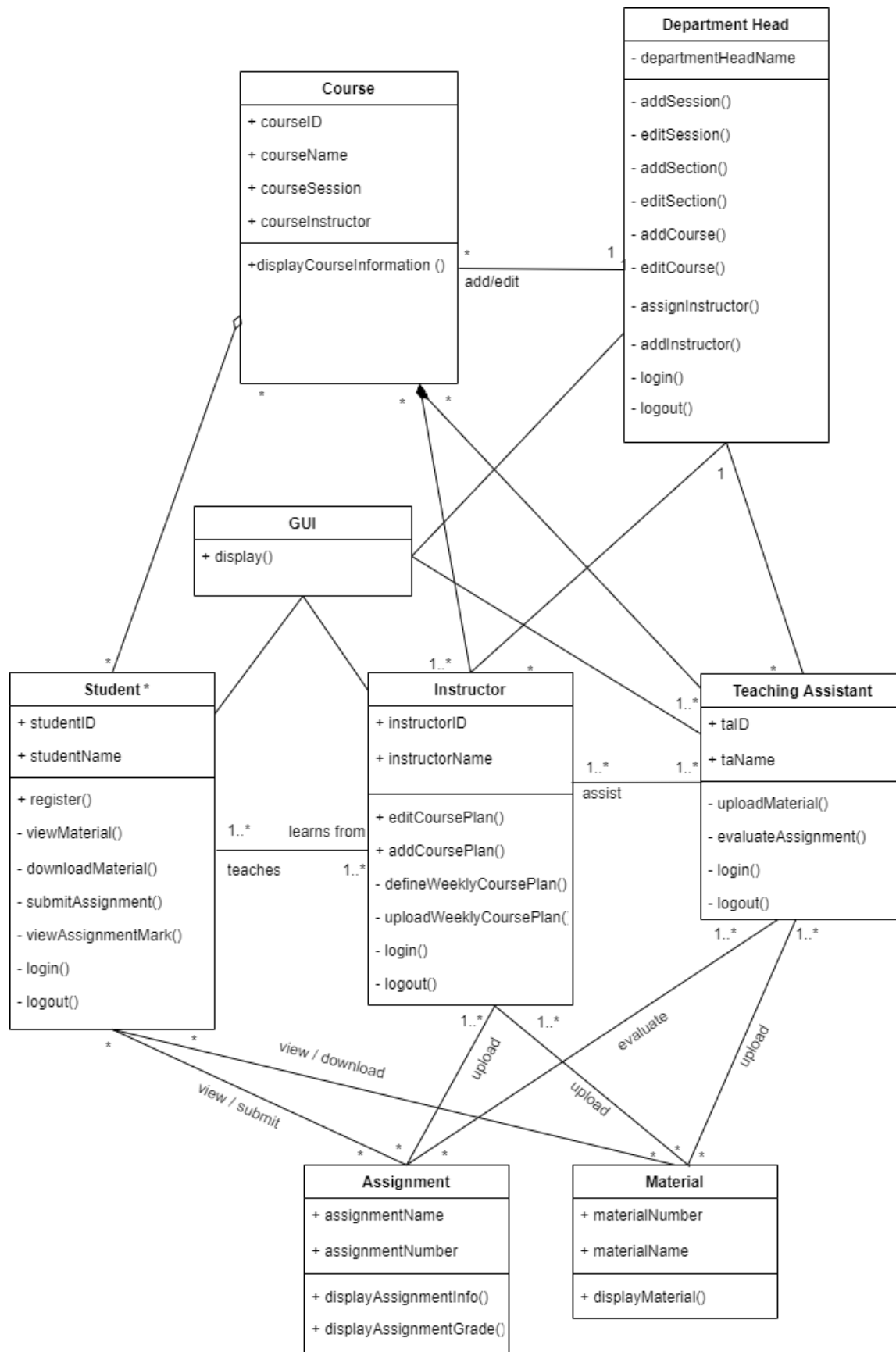Teaching Assistants assist instructors.

Courses have students. Each course has one instructor and one TA.

Student, Department Head, Instructor and Teaching Assistant can log in and log out.
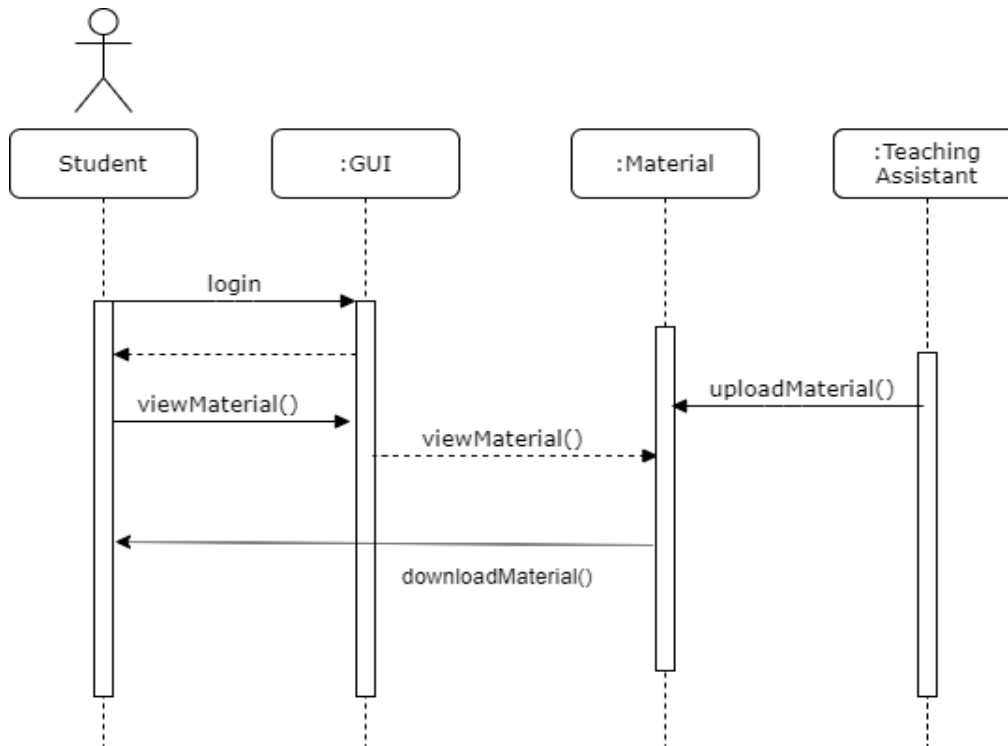
Each student can register multiple courses.

All students can view/submit their assignments.

There is only 1 Department Head.

Course

+ courseID

+ courseName

+ courseSession

+ courseInstructor

+displayCourseInformation ()

Department Head

- departmentHeadName

- addSession()

- editSession()

- addSection()

- editSection()

- addCourse()

- editCourse()

- assignInstructor()

- addInstructor()

- login()

- logout()

add/edit

GUI

+ display()

Student *

+ studentID

+ studentName

+ register()

- viewMaterial()

- downloadMaterial()

- submitAssignment()

- viewAssignmentMark()

- login()

- logout()

Instructor

+ instructorID

+ instructorName

+ editCoursePlan()

+ addCoursePlan()

- defineWeeklyCoursePlan()

- uploadWeeklyCoursePlan(

- login()

- logout()

Teaching Assistant

+ taID

+ taName

- uploadMaterial()

- evaluateAssignment()

- login()

- logout()

assist

learns from

teaches

view / download

view / submit

upload

upload

evaluate

upload

Assignment

+ assignmentName

+ assignmentNumber

+ displayAssignmentInfo()

+ displayAssignmentGrade()

Material

+ materialNumber
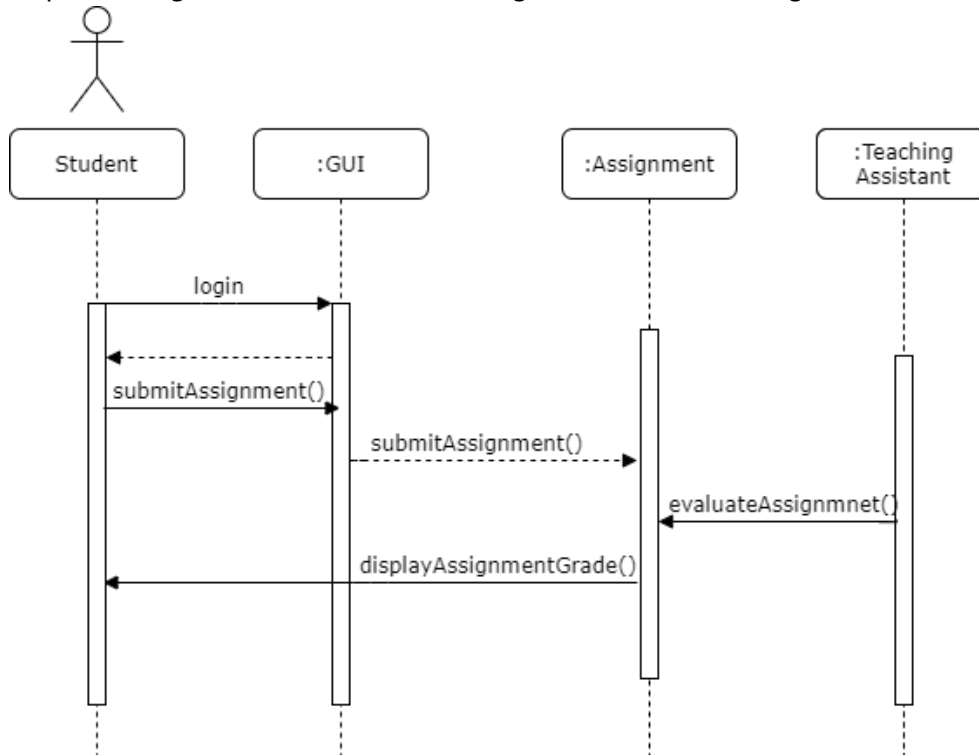
+ materialName

+ displayMaterial()

2)

Sequence Diagram 1: Students view and download material

Sequence Diagram 2: Students submit assignment and view their grades

Sequence Diagram 3: Department Head assign instructors to a course