**Practice problem 3 CMPE 202 (Question no.1)**

**Use Case Id**: 1

**Use Case Title**: Student in the first lecture.

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| **Actor** | **Role** |
| Person() | Person(Professor)  Person(Student) |

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| --- | --- | --- | --- |
| **Class** | **Type** | **Attribute** | **Operation** |
| Person(Instructor) |  | name, emp\_id, sex, education | profile()  haveInteraction() |
| Person(Student) |  | name, sex, student\_id, education | profile()  haveInteraction() |
| Lectures() |  | lecturesPerWeek, lectureStartTime, lectureEndTime,  Finalexamdate, lectureRoom, | schedule()  locate() |
| LectureNotes() |  | Presentationpage,  openpagefortopic | explainTopics()  noteTopics() |
| TeamProjects() |  | teamMembers, projecttopics, teamName | formTeaminCanvas()  emailprofteam() |
| Canvas() |  | dueDate, assignments,  teamName, teamInfo, lectureMaterial | StudentNotified()  ProfessorSchedule() |
| Table() |  | color, height, width, length | provideSupport() |
| ClassSchedule() |  | time, lastClass, finalExam, scheduleDates | StudentNotified()  ProfessorSchedule() |
| Whiteboard() |  | width, length | explainIdeas() |
| Projector() |  | powerRequirement, resolution | pptPresentation() |
| Appointment() |  | officeHour, location | discussProblems() |
| Chair() |  | color, height, width, length | giveComfort() |
| DueDates() |  | date, time, projectNumber, assignmentNumber,  practicalProblems,  essays | StudentNotified()  ProfessorSchedule() |
| Website() |  | classHours, Assignments, assignmentDueDates,  referenceMaterials, | uploadMaterialinCanvas() downloadNotes() |

**Use Case Description:**

Instructor welcomes students and gives an introduction about himself, about structure of course, what can the students expect to learn at the end of the course and what does the professor expect from the students.

**Alternatives:**

No Introductory lecture.

**Use Case Id**: 2

**Use Case Title**: Student taking Quiz

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| **Actor** | **Role** |
| Person() | Person(Professor)  Person(Student) |

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| --- | --- | --- | --- |
| **Class** | **Type** | **Attribute** | **Operation** |
| Person(Instructor) |  | name, sex, emp\_id | scheduleQuiz()  monitorQuiz()  grade() |
| Person(Student) |  | name, sex, student\_id | takeQuiz()  submitQuiz() |
| Quiz() |  | questions, format, answers | testKnowledge() |
| Grade() |  | score, quizNumber, maxScore, minScore,  averageScore | giveGrade() |
| Table() |  | color, height, width, length | provideSupport() |
| Chair() |  | color, height, width, length | giveComfort() |
| Paper() |  | size, quantity, questions | provideQuiz()  printQuestions() |
| Pen() |  | color | answerQuiz() |

**Use Case Description:**

Students go to class to take a quiz. Professors takes the quiz to assess the knowledge of the students as well as to check the attendance of the students

**Alternatives:**

Students who are late, miss the quiz. They will have to talk to the professor to see if they can take the quiz again.