



## Use Case Description

### Actors:

**Students:** After registration, students can log in to see course materials, attend exams and get exam notifications. Before attending the exam, their device camera will be open and their recorded video will be saved in the google drive. They will be able to see a timer during the examination and after finishing the exam, they can see the answers of the questions. Moreover, they will be able to see their progress in the course.

**Teachers:** Teachers can either be added by the admins or they can register themselves. After registration, they will be able to login, add students to their courses. They can also add exams for those courses and add the time limit, set the questions and answers for the exams. They can also delete an exam/question if that is required.

**Admins:** They can add another admin and the teachers to the system. They are the only actors who can add or delete a course. They will maintain the database and look after the system.

**Device Camera:** It will start recording the video of the student once the student appears to attend the exam.

**Google Drive:** The recorded video of the exam will be stored in the google drive.

### Relations:

**Include:** There are plenty of include relations in our use case diagram. Some of those are mentioned below:

- Attend exam includes record video
- Finish exam includes attend exam
- See course materials includes update course materials

**Extend:** Some of the extend relations that we have used are:

- Make questions extends delete questions
- Add exam extends delete exam
- Finish exam extends see the answers

**Generalization:** We haven't used generalization relation as the actors have only few things in common. As they differ much in their actions, we feel it is not necessary to generalize the users.