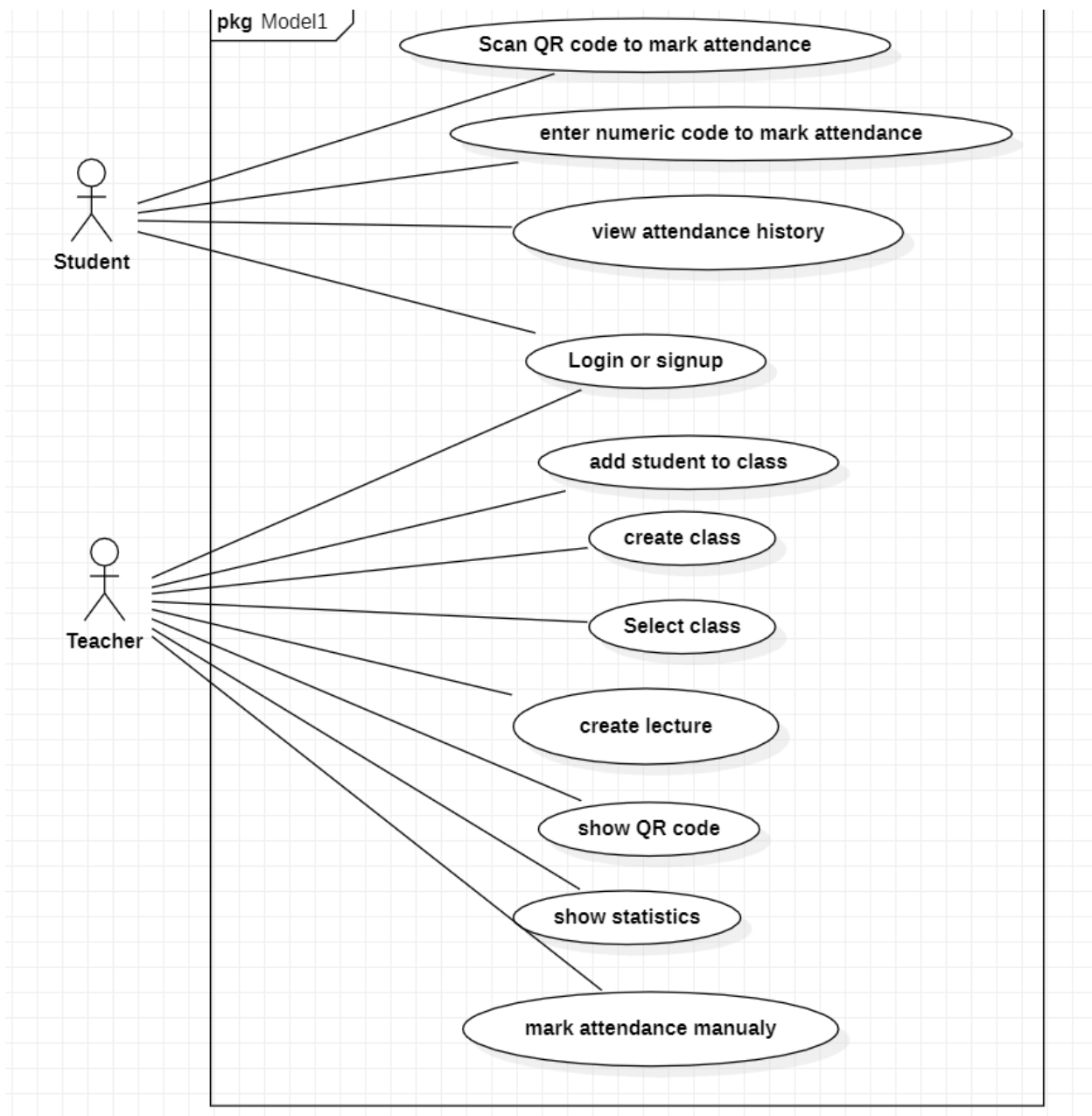


Attendance Marking Application UML diagram

This is an application for teachers to mark their students attendance at each lecture, the idea is that the teacher will only start a new lecture and the students are supposed to scan a new generated QR code to mark their attendance, below is a diagram that shows each actor and the use cases and a breakdown of each use case:



Breakdown:

- **Scan QR code to mark attendance:** the student can scan a QR code of a specific lecture to mark their attendance to that lecture.
- **enter numeric code to mark attendance:** the student can enter a 6 digits number instead of a QR code to mark their attendance to that lecture.
- **view attendance history:** Students can view their attendance history where every lecture attended would be shown.
- **Login or Signup:** both actors can either login or create a new account.
- **Add student to class:** teacher can add students to class by input or importing excel sheet.
- **Create class:** teachers can create a class in which they could create lectures and add students. Class is a course represents entire period.
- **Select Class:** teachers can select class from their existing classes.
- **Create Lecture:** Teachers can create lectures inside a specific class.
- **Show QR code:** Teachers can show the QR code of a created lecture for students to scan and mark their attendance.
- **Show statistics:** Teachers can view a course specific statistics related to student attendance. Example : the percentage of student A attendance.
- **Mark attendance Manually:** Teachers can mark attendance of a specific student manually just in case the student is not able to do so(Or cheat somehow)