QR Attendance System

CENG396 TERM PROJECT

TEAM

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QR Attendance System

We will apply the attendance system for schools. Users will log in to the app with school mails and scan the QR code. Once the scanning is completed, they will be seen as in the class. This will create practicality and time saving with technology involved.

Functional Requirements

User Log In:

1. A user enters mail and password.
2. The user logs in as a student via role selector.
3. The user logs in as a teacher via role selector.
4. Each user are able to access different types of data.

QR Scanning for Students:

1. After log-in students automatically directed to QR Scanning Screen.
2. User will allow the camera of her/his mobile phone.
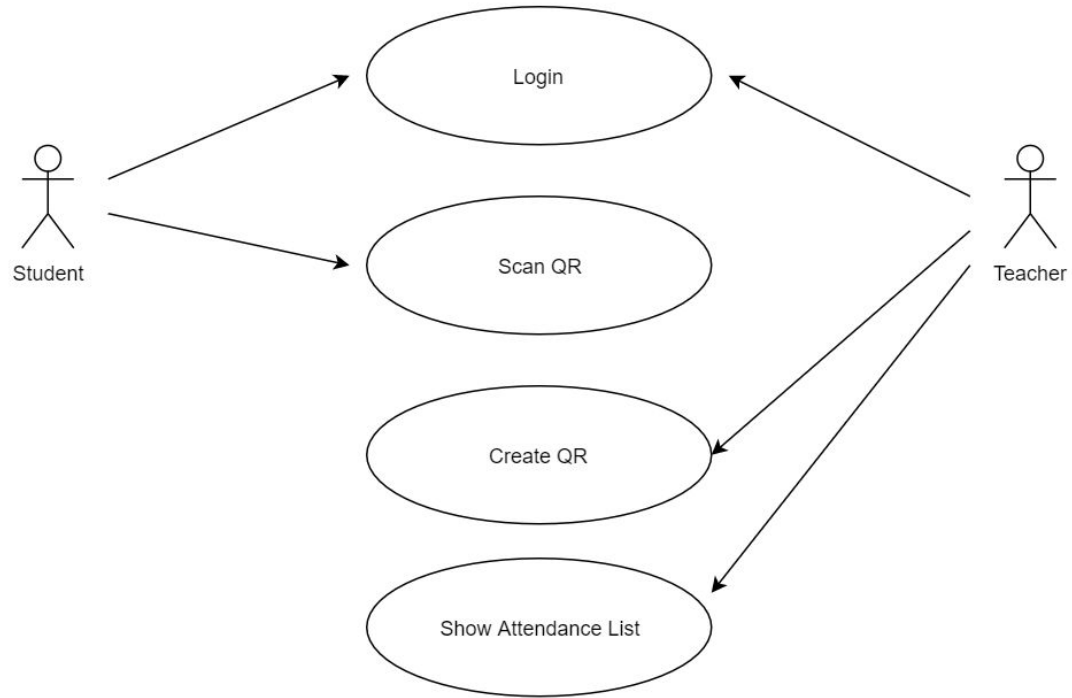3. With stable angle app will scan the code and sends info to database.
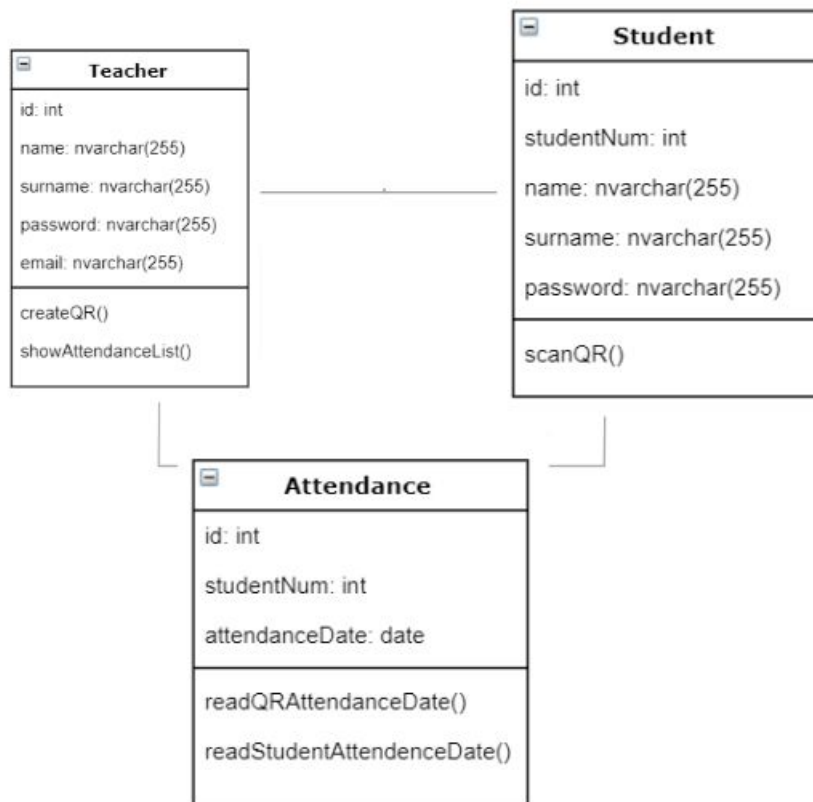
Functional Requirements

QR Creation for Teachers:

1. Teacher logins to the system from webpage.
2. Webpage automatically creates QR Code when Teacher logins to the system.
3. After 15 seconds system will lock down and no more scans for the students will be available.
4. Teacher can see the attendance list of students.

Use Case Model

Class Diagram

Teacher

id: int

name: nvarchar(255)

surname: nvarchar(255)

password: nvarchar(255)

email: nvarchar(255)

createQR()

showAttendanceList()

Student

id: int

studentNum: int

name: nvarchar(255)

surname: nvarchar(255)

password: nvarchar(255)

scanQR()

Attendance

id: int

studentNum: int

attendanceDate: date

readQRAttendanceDate()

readStudentAttendenceDate()

Database

mtlbl_db teacher
- # id : int(11)
- name : text
- surname : text
- email : text
- password : text

mtlbl_db attendance
- attendance_id : int(11)
- # student_number : int(11)
- date : varchar(255)

mtlbl_db student
- id : int(11)
- # studentNum : int(11)
- name : varchar(40)
- surname : varchar(40)
- password : text

GitHub

PHP C. Koral ADALI

Android Berkan GÜREL

DBMS N. Cem ALTUNBULDUK

https://github.com/cemaltunbulduk/Attendance-System-by-QR-Code