

MOBILE ATTENDANCE SYSTEM

🚫SOFTWARE ENGINEERING🚫

SUBMITTED TO: MD. ANWARUL KABIR

SECTION: F

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Project Details:

The mobile attendance system has been built to eliminate the time and effort wasted in taking attendances in schools and colleges. It also greatly reduces the amount of paper resources needed in attendance data management. The system is divided into following modules:

- This android app runs on android phones. It's built to be used for school/college faculty so that they may take student attendance on their phones.
- **Student Attendance List Creation:** Once this App is installed on a phone, it allows user to create a student attendance sheet consisting of name, roll number, date, Absent/Present mark and subject, providing a unique QR Code.
- **Attendance Marking:** The faculty has the QR Code on his phone now. He may provide the code to the student so that they can give their attendance by scanning the code.
- **Attendance Storage:** This data is now stored in the faculty mobile phone. Faculty may also view it anytime on their phone.
- **Attendance sheet transfer:** The faculty can transfer the file to a server (normal computer) via a Wi-Fi connection where this data can be stored and maintained by the school or college.

Thus this system automates attendance system and eliminates the use of paperwork needed for attendance marking and monitoring student attendance.

Software Requirements:

- Windows 7 or Higher
- Android Development Toolkit(ADT)
- Android 4.0 or Higher

Hardware Requirements:

- i3 Processor Based Computer or Higher
- Memory: 1 GB RAM
- Hard Drive: 20 GB
- Internet Connection
- Android Device

Diagram:

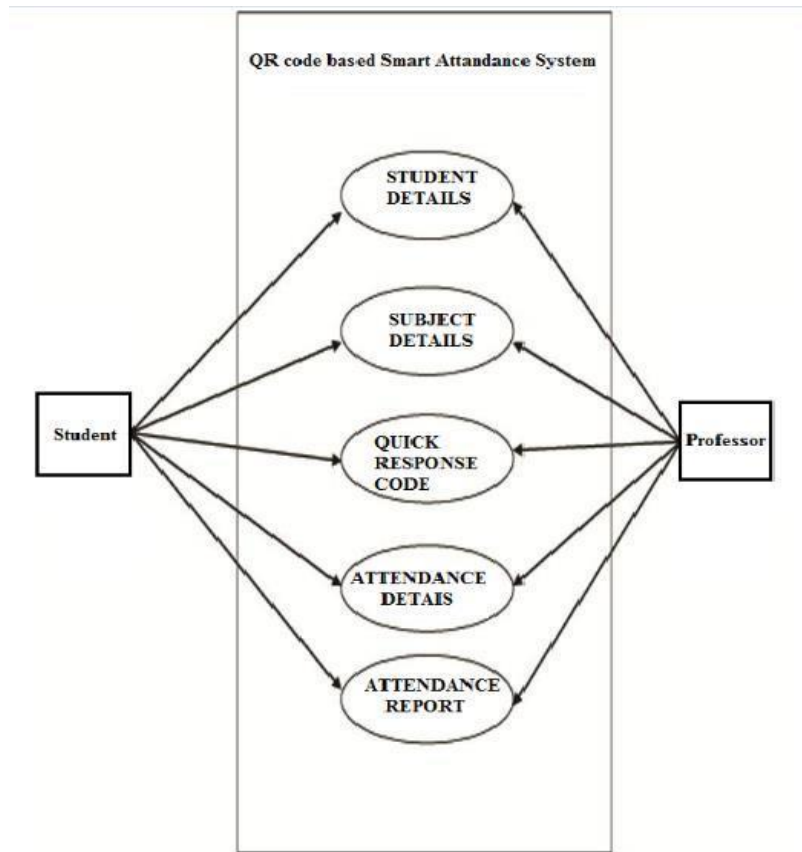


Fig: Use Case Diagram

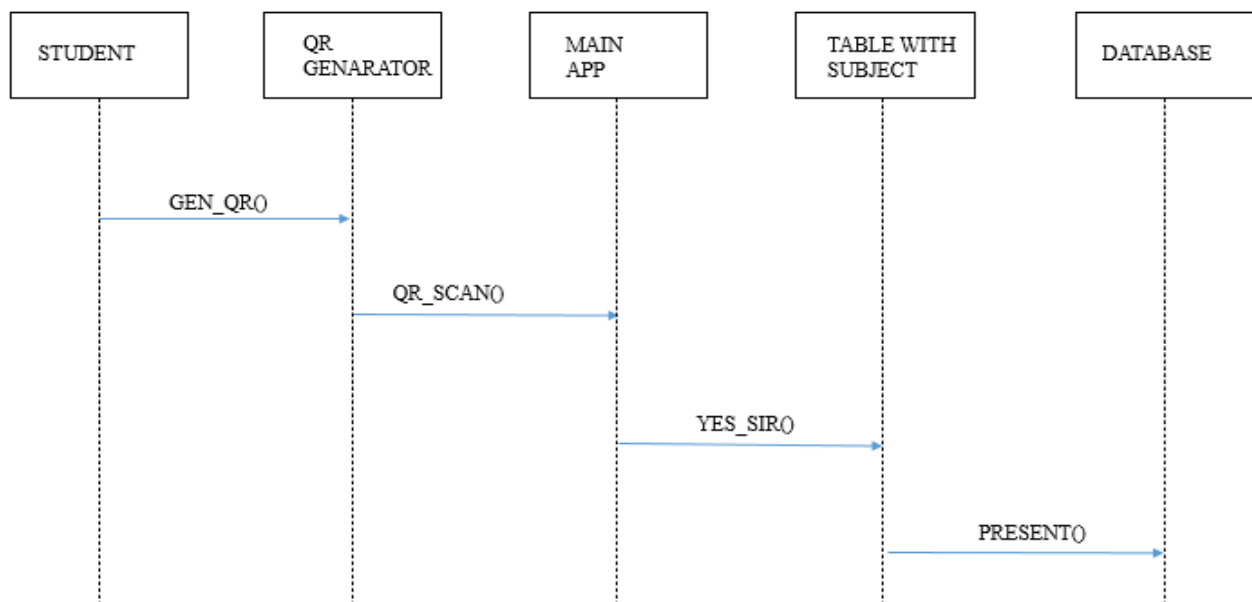


Fig: Sequence Diagram

Scanning Process:



Software Development Model:

We are going to use an Agile method called the Extreme Programming (XP). Because we have a time limit of six months to complete the software so we will use 8 time box for building the project each time box's length will be three weeks. The requirements are very clear. This is a very simple project so it will be easy to make the student attendance software using Extreme Programming (XP).

Advantages:

- The system eliminates the use of paperwork needed for attendance marking and monitoring.
- The file can be transferred from mobile to computer or server via Bluetooth.
- This gives the overall performance of class in attendance.
- There is no need for laptop or computer in every class to run the system as the system is run on mobile so no need of extra efforts and resources.
- The app is easy to install and use.

Disadvantages:

- The system can be run on android platform only. Though most of the mobiles now are android version and available in reasonable rate so it won't be a big issue.

Applications:

- The system can be used in schools, college or coaching classes.