

Basic Details of the Team and Problem Statement

Theme Name: Smart Education

Problem Statement Title: Bringing power of AI/ML to aid of teacher in a classroom

Team Name:

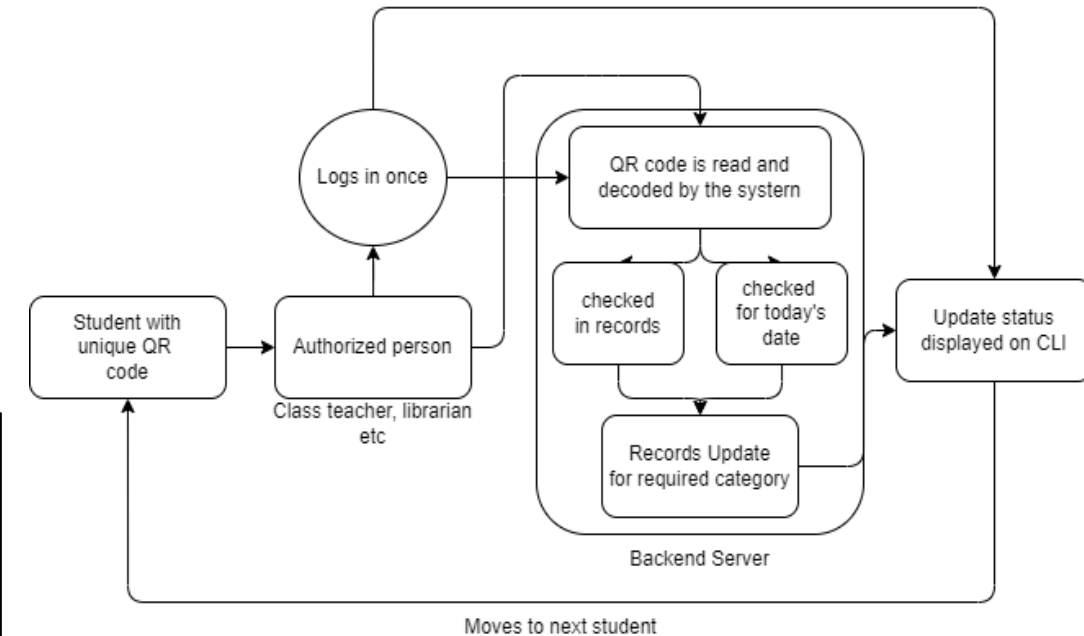
Team Leader Name: Hrushikesh Kachgunde

Institute Name: Dr. D Y Patil Institute of Engineering
Management and Research

Idea/Approach Details

Describe your idea/Solution/Prototype here:

- Generate QR codes for each individual student.
- The UI will be a website where the authorized person will log in and start scanning QR codes.
- Records will be updated and maintained digitally.
- Time and resource efficient.



Describe your Technology stack here:

- Python for system building; **html**, **css** and **js** for web front end.
- **Pandas** and **Numpy** for record manipulation.
- **Opencv**, **Pyzbar** and **Qrcode** libraries to generate qrcodes and read data from them.

Idea/Approach Details

Describe your Use Cases here

- The student will carry his unique QR code printed behind his ID card.
- This QR code will be scanned by authorized person.
- Authorized person logs in to access the QR code scanning functionality on his phone.
- The records are updated automatically and saved for later reference.

Describe your Dependencies / Show stopper here

- Authorized person needs an access to a mobile phone and internet connection.
- If the student loses his QR/ID card and the authorities are not informed about this, the QR can be misused.
- Students have a habit of forgetting things.

Team Member Details

Team Leader Name: Hrushikesh Kachgunde

Branch (Btech/Mtech/PhD etc): B.E.

Stream (ECE, CSE etc): AI & Data Science

Year (I,II,III,IV): II

Team Member 1 Name: Prathamesh Parit

Branch (Btech/Mtech/PhD etc): B.E.

Stream (ECE, CSE etc): AI & Data Science

Year (I,II,III,IV): II

Team Member 2 Name: Riddhi Gujarathi

Branch (Btech/Mtech/PhD etc): B.E.

Stream (ECE, CSE etc): AI & Data Science

Year (I,II,III,IV): II

Team Member 3 Name: Type Rupesh Suryawanshi

Branch (Btech/Mtech/PhD etc): B.E.

Stream (ECE, CSE etc): AI & Data Science

Year (I,II,III,IV): II

Team Member 4 Name: Type Saniya Mulla

Branch (Btech/Mtech/PhD etc): B.E.

Stream (ECE, CSE etc): AI & Data Science

Year (I,II,III,IV): II

Team Member 5 Name: Type Sukanya Biradar

Branch (Btech/Mtech/PhD etc): B.E.

Stream (ECE, CSE etc): AI & Data Science

Year (I,II,III,IV): II

Team Mentor 1 Name: Type Your Name Here

Category (Academic/Industry):

Expertise (AI/ML/Blockchain etc):

Domain Experience (in years):

Team Mentor 2 Name: Type Your Name Here

Category (Academic/Industry):

Expertise (AI/ML/Blockchain etc):

Domain Experience (in years):

Technology Stack



Please mention the technology stack

- Python, Html, css and javascript
- Flask
- Sql_alchemy
- Pandas, Numpy & Matplotlib
- Opencv
- Qrcode, Pyzbar