PROJECT PROPOSAL

[RFID based Automatic Attendance system]

**Date**: 12th May 2022

Respected,

Head of Department of ICT,

VNSGU, Surat.

**Subject**: Hardware & software support required from the department

We hereby, students from B.Sc. (I.T.) (Sem – 4) present you with a project proposal regarding RFID based automatic attendance system for this department. A fully functional small prototype is already developed by us. Now we want to expand that prototype to real time deployable working model. Hence, we require the support and aid of the department to move further in this project.

We obligingly request you to go through the aforesaid proposal and grant us the requisite resources at the earliest.

Hoping for positive response.

Thanking You,

1)Harshil Ramani (Team Lead),

2) Tulsi Rathod

3) Shikhaa Tikiwala

4) Shubham Khunt

5) Drashti Dhola

6) Parth Mistri

7) Meet Makwana

8) Archit ghevariya

9) Jaydev Jadav

10)Krish Bhanderi

System Overview

* Automatic attendance capture with wide range RFID Reader in real-time.
* Web Application with the different user accounts from students to faculties and non-teaching staff
* Android Application for improving user experience
* PWA (Progressive web app) (new technology for low resource high-performance app)
* All data will be available in application in mean & real-time
* Customized report and attendance- setup creating functionalities for faculties

Tools & Technology

1. Tech Stack for the project:

1. ReactJS

2. NodeJS

3. Express JS

4. MongoDB

1. Tools for Project Management:

1. GitHub (for Project Version Control and cloud storage)

2. Skype (for Communication) & Google meet (for Discussion and presentation)

3. Trello (for Task Management among the team)

4. Arduino IDE (for hardware programming)

5. Postman (for Testing APIs)

6. Visual Studio Code (Code Editor for web application)

Hardware & Software Requirements

1. Hardware:
2. Software: