



HNCC

HACKATHON & CODING CLUB, BIT SINDRI

PRESENTS

HACK-O-VERSE

CAPTURE THE FLAG

BIT CODE

UXATHON

GAMEATHON



TEAM ERROR 404

2024

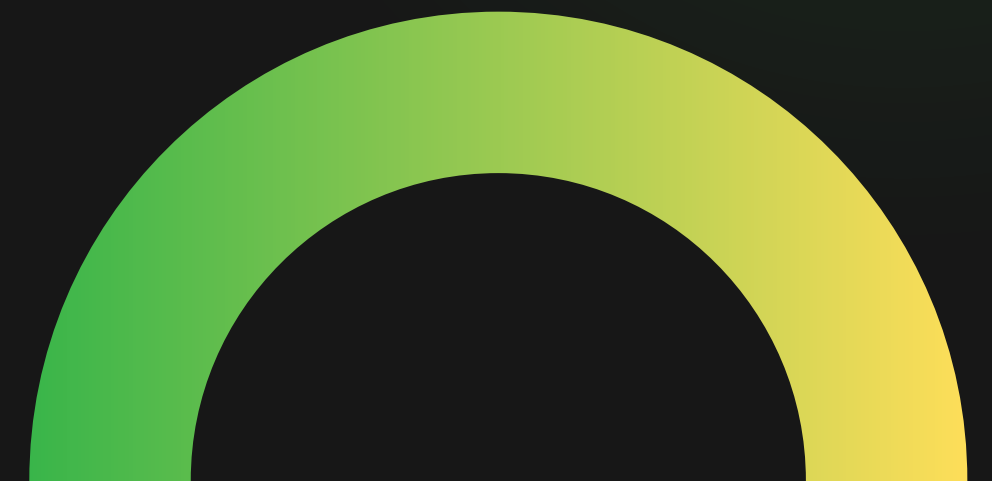
PROBLEM STATEMENT



- **INACCURATE ATTENDANCE TRACKING: MANUAL ATTENDANCE TRACKING METHODS CAN BE PRONE TO ERRORS AND MAY NOT ACCURATELY REFLECT STUDENT ATTENDANCE. CREATE A DIGITAL SOLUTION FOR MANAGING ATTENDANCE IN A CLASSROOM OR OFFICE SETTING. THE SOLUTION SHOULD ADDRESS CHALLENGES SUCH AS MANUAL TRACKING, ERRORS IN ATTENDANCE RECORDS, AND COMPLIANCE WITH ATTENDANCE POLICIES. THE SOLUTION SHOULD ALSO AIM TO PROVIDE REAL-TIME DATA AND INSIGHTS TO ADMINISTRATORS AND TEACHERS, AND BE EASILY CUSTOMIZABLE TO MEET THE NEEDS OF DIFFERENT INSTITUTIONS. ADDITIONALLY, THE SOLUTION SHOULD BE SECURE AND PROTECT THE PRIVACY OF STUDENT AND EMPLOYEE INFORMATION.**

+ CHALLENGES AND ERRORS IN MANUAL TRACKING

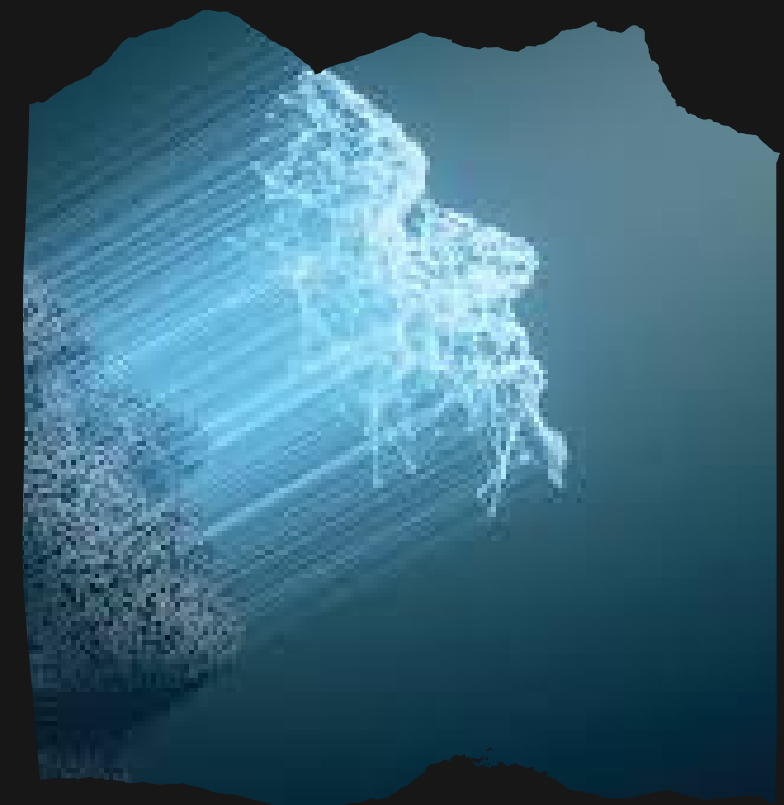
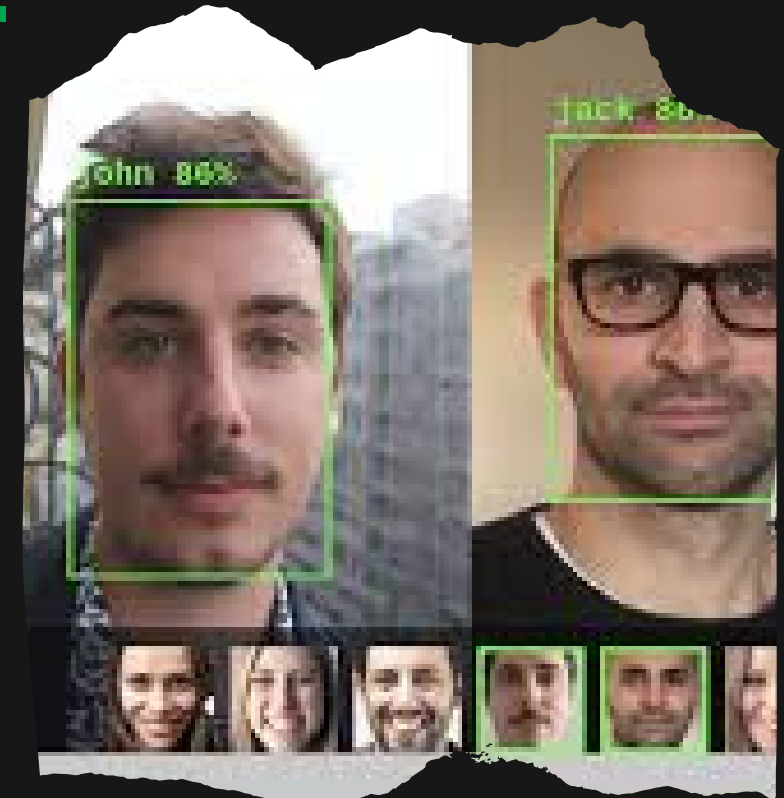
- 1.CONSUMES A LOT OF CLASS TIME.(FOR EXAMPLE, IN A CLASS OF 100 STUDENTS IT MIGHT TAKE UPTO 5-10 MINUTES.)**
- 2.REQUIRES MANUAL CALCULATION OF EACH AND EVERY STUDENT'S ATTENDANCE RECORD IN ORDER TO NOTIFY WTHETHER THE STUDENT CROSSED 75% CRITERIA.**
- 3.IN A CHAOTIC CLASS FULL OF STUDENTS, SOMETIMES PROBABILITY OF MISSING SOME STUDENT'S ATTENDANCE IS HIGH, THUS CREDIBILITY OF SUCH A SYSTEM AUTOMATICALLY DECREASES.**



IDEA/APPROACH

STUDENT INTERFACE

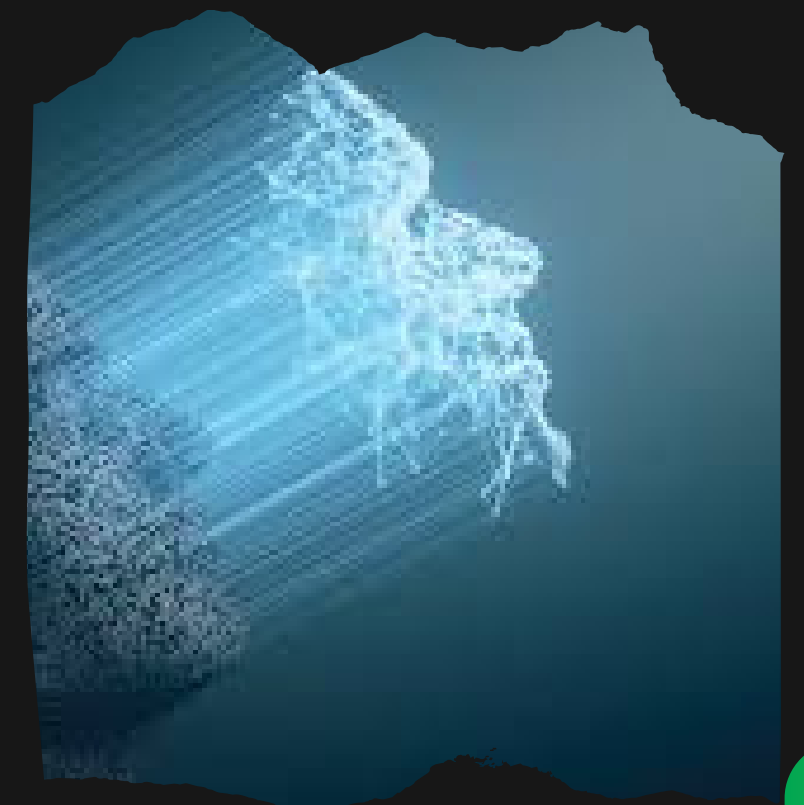
- THE STUDENT THE STUDENT REGISTERS HIS CANDIDATE INTO THE WEB PAGE .HEY IS IS CONDITIONAL GET STORED ON THE BACKEND DATABASE
- NOW NOW THE STUDENT LOCKS INTO THE WEB PAGE THROUGH HIS CREDENTIALS
- IN THE WEB PAGE THE STUDENT SCANS IS FACE PHOTO WE HAVE USED OPENCV LIBRARY IN PYTHON FOR FACE RECOGNITION .
- DURING THE CLASS DURATION THE THE STUDENT PHONE MUST BE CONNECTED TO THE CLASS WIFI.
- A UNIQUE CODE IS GENERATED FOR EACH STUDENT WHICH WE HAS TO ENTER ON THE WEB PAGE IN ORDER TO CONFIRM HIS PRESENCE IN THE CLASS



IDEA/APPROACH

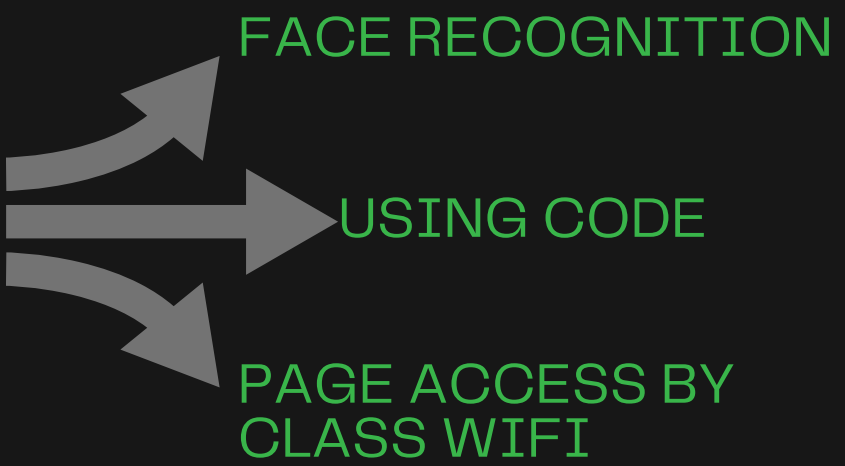
TEACHER INTERFACE

- THE TEACHER REGISTERS TEACHER REGISTERS INTO HIS WEB PAGE AND THEN LOGINS IN
- THE TEACHER WILL GENERATE A CODE FOR A PARTICULAR DAY WITH THE HELP OF THIS CODE STUDENT CAN MAKE HIS OWN ATTENDANCE USING ONLY CLASS WIFI
- AFTER BE SUCCESSFUL FACE DETECTION THE REPORT THAT WHICH ALL STUDENTS ARE PRESENT IN SENT TO THE TEACHER
- HERE THE TEACHER GET MANY FEATURES TO INFORMATICALLY REPRESENT THE ATTENDANCE DATA OF THE ENTIRE CLASS THROUGH GRAPH AND HISTOGRAM
- THE TEACHER CAN THE TEACHER CAN NOTIFY TO THE STUDENT WHETHER THEIR ATTENDANCE CROSSED THE 75% BARRIER THIS CAN BE USED AS A SOURCE OF SENDING MATERIAL RESOURCES ALSO.

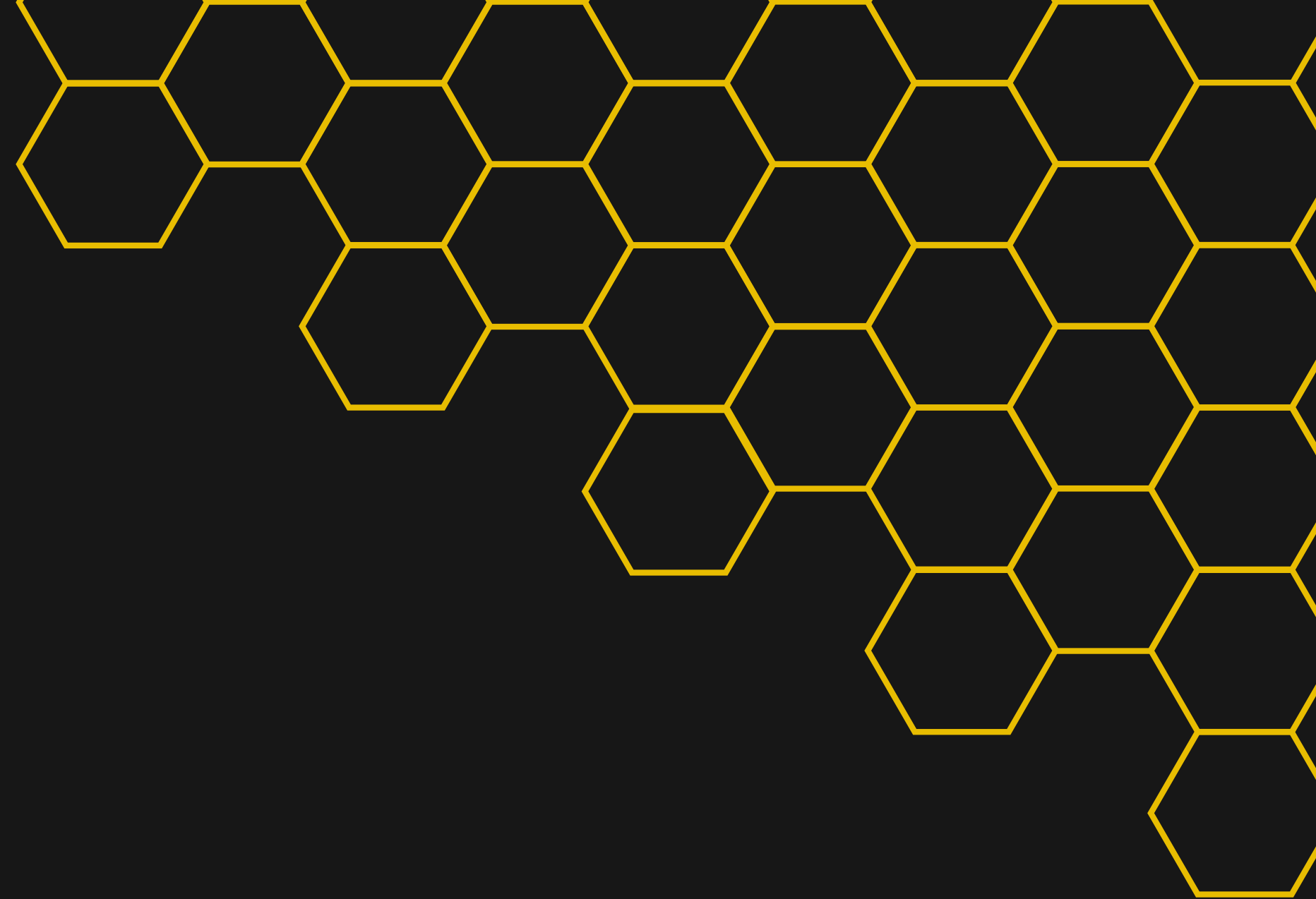
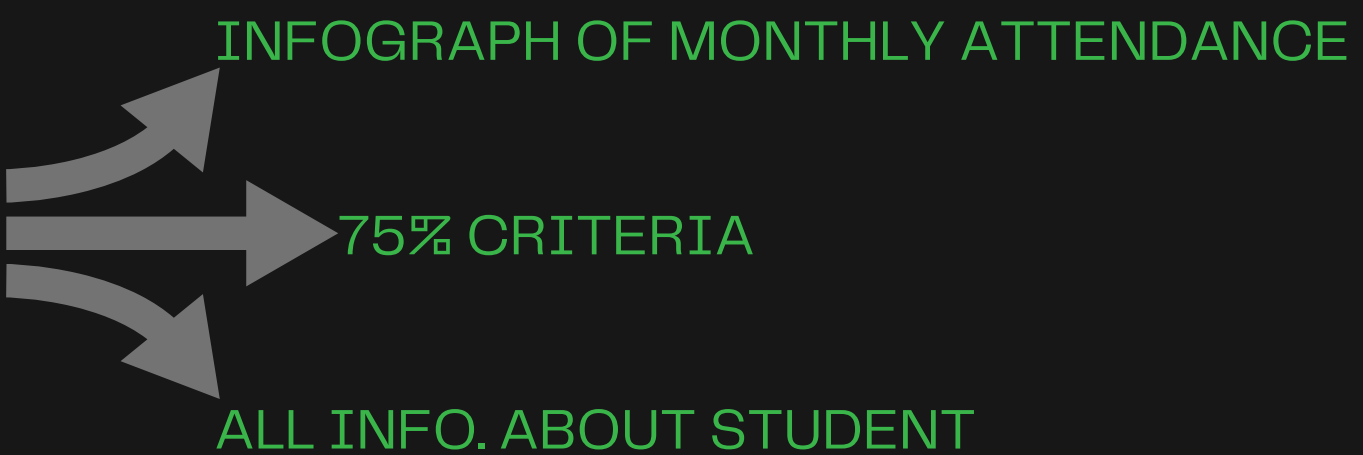


ATTENDANCE

LAYERING



INSIGHTS

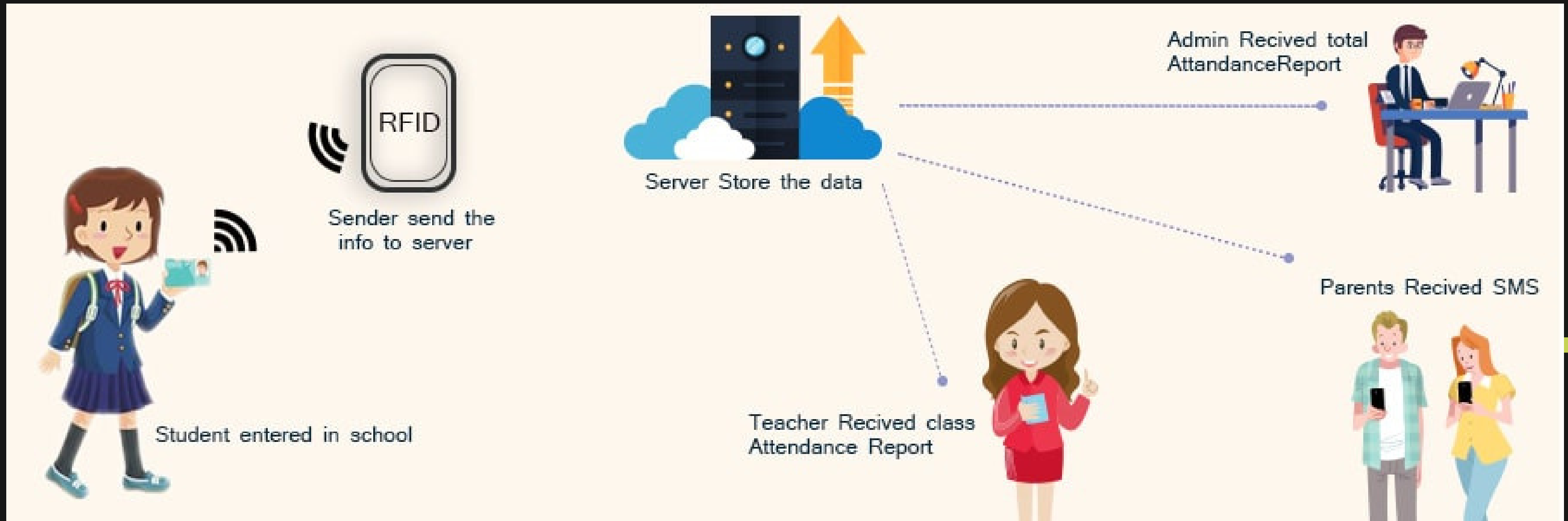


HOW WEBSITE ACTULLY WORKS

WEB PAGE



● BENEFITS TO THE TEACHER & STUDENTS



OUR
SERVICES

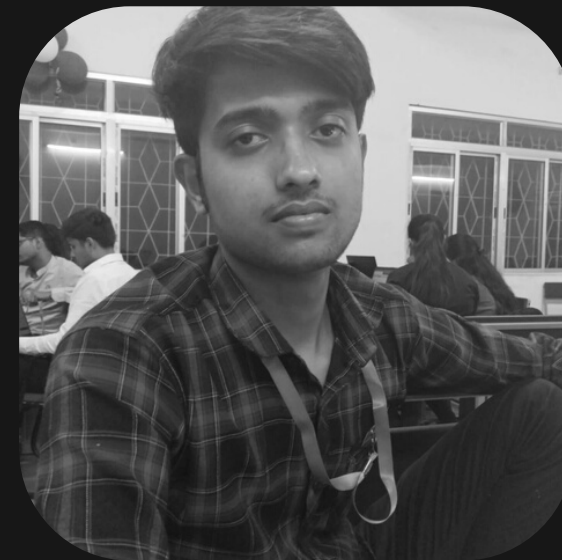
OUR TEAM MEMBERS



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BISHAL PAUL



STUDIO SHODWE



LET'S WORK
TOGETHER



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