Basic Details of the Team and Problem Statement

SMART INDIA HACKATHON 2022

Ministry/Organization Name/Student Innovation:

GOVERNMENT OF MAHARASHTRA

PS Code: **OS871**

Problem Statement Title: **ATTENDANCE SYSTEMS FOR STUDENTS OF GOVERNMENT-AIDED SCHOOLS**

Team Name: BUG_SQUASHERS

Team Leader Name: AKSHITA KOUL

Institute Code (AISHE): C-1249
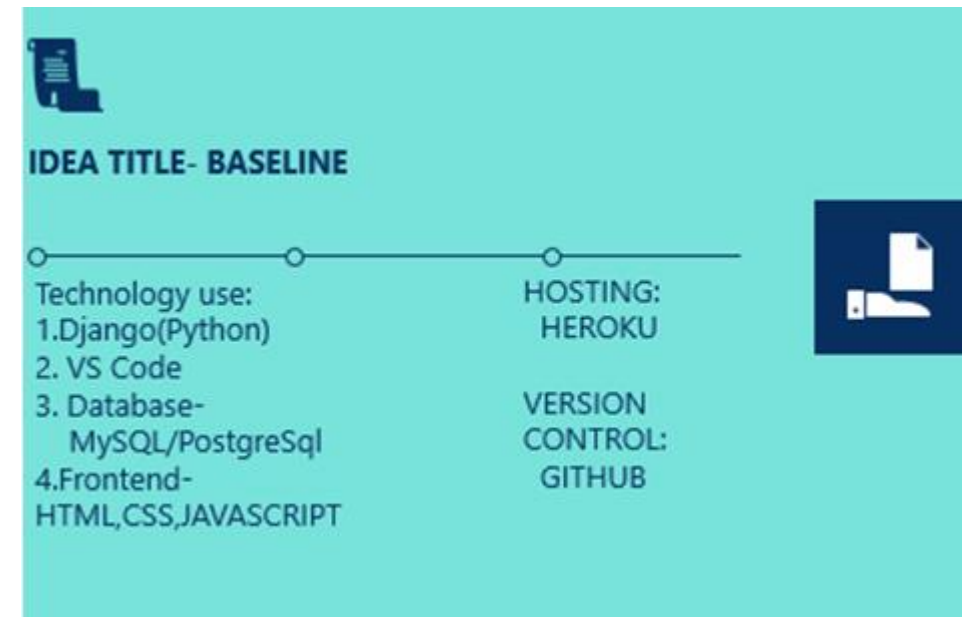
Institute Name: MVJ COLLEGE OF ENGINEERING

Theme Name: SMART EDUCATION

Idea/Approach Details

Idea Methodology:

➢ **RESOURCE GATHERING:** Frontend, database, backend, version Control, github

➢ **PLANNING:** Attendance system for schools specially government schools based on the classes conducted, depending upon how long these sessions are being conducted and determine the strength of the class present. manipulation of attendance of each student and calculate their percentage.

➢ **FEATURES :** Two interfaces→ ADMIN LOGIN (PRINCIPAL/MANAGEMENT) TEACHER AND STUDENT LOGIN

➢ **DEVELOPMENT:** Creating model, view for models, template, repository, requirements.

➢ **PRODUCTION:** Once the project is completed, the production process take place.In this, we make use of two our components Heroku which will be utilised for Hosting part and GitHub for Version Control, so as to make our project live.The repository link to GitHub is: https://github.com/Faizan10933/Attendance_management_system

➢ **RESULTS & CONCLUSION:** The outcome would be to accurately store the database of how many teachers have conducted the class and how many students have attended to it. This would help in demonstrating the education welfare and maintain a low cost and robust database

2

IDEA TITLE- BASELINE

Technology use:
1. Django(Python)
2. VS Code
3. Database-
   MySQL/PostgreSql
4. Frontend-
HTML,CSS,JAVASCRIPT

HOSTING:
HEROKU

VERSION
CONTROL:
GITHUB

Idea/Approach Details

Use Cases

➢ The development of the attendance system for schools specially government schools based on the classes conducted, depending upon how long these sessions are being conducted and determine the strength of the class present.

➢ Manipulation of attendance of each student and calculate their percentage.

➢ Attendance management system even allows us to set and keep the timetables within the database so that as and when required students and faculty members would have the idea about when and what classes are to be conducted and attended.

➢ The outcome would be to accurately store the database of how many teachers have conducted the class and how many students have attended to it. This would help in demonstrating the education welfare and maintain a low cost and robust database.

➢ The benefits inclusive: COST REDUCTION,EASY REPORTING, LEAVE MANAGEMENT, VISIBILITY, REDUCED ADMINISTRATIVE LOAD, IMPROVED PRODUCTIVITY.

Dependencies

➢ It helps to maintain the accurate record and generate summarized student attendance reports for the students by applying various criteria.

➢ As the software provides no limitations to add the number of students and store the database, it provides a convenient way to retrieve the database as required.

➢ It is a secure system as it allows only persons with faculty credentials to mark up the attendance and with student credentials can only view the attendance, all happens with priorities assigned to faculties. Our designed system doesn't allow its users to hack into others' databases.

➢ This allows faculties to perform write operation only on mark attendance model, whereas the admin can perform it throughout the complete model.

➢ The date and time of the users' account creation(attendance markup) will be directly stored in our backend and saved for further requirements too. This avoids the mismatch & faults within our system.

3

Team Member Details

Team Leader Name: AKSHITA KOUL
Branch (Btech/Mtech/PhD etc): Btech   Stream (ECE, CSE etc):CSE   Year (I,II,III,IV):III

Team Member 1 Name: ISHA SINGH BAGHEL

Branch (Btech/Mtech/PhD etc): Btech   Stream (ECE, CSE etc): CSE   Year (I,II,III,IV):III

Team Member 2 Name: ABHILASHA SARKAR

Branch (Btech/Mtech/PhD etc): Btech   Stream (ECE, CSE etc): CSE   Year (I,II,III,IV): III

Team Member 3 Name: SREERAM S

Branch (Btech/Mtech/PhD etc): Btech   Stream (ECE, CSE etc): CSE   Year (I,II,III,IV): III

Team Member 4 Name: PRAJWAL S

Branch (Btech/Mtech/PhD etc): Btech   Stream (ECE, CSE etc): CSE   Year (I,II,III,IV): III

Team Member 5 Name: FAIZAN AHMED

Branch (Btech/Mtech/PhD etc): Btech   Stream (ECE, CSE etc): CSE   Year (I,II,III,IV): III

Team Mentor 1 Name: Dr. UMAMAHESWARAN

Category (Academic/Industry): Academy   Expertise (AI/ML/Blockchain etc): AI/ML   Domain Experience (in years):V

Team Mentor 2 Name: Ms. NAVYA V K

Category (Academic/Industry): Academy   Expertise (AI/ML/Blockchain etc): AI/ML   Domain Experience (in years): I