CHAPTER 4

PROJECT DESIGN

4.1 DESCRIPTION OF ADMIN MODULE

In this module admin has the access to add faculties and student. The details of the faculties are stored in database. Under the student functionality the student basic details and an image of the student are collected for model generation.
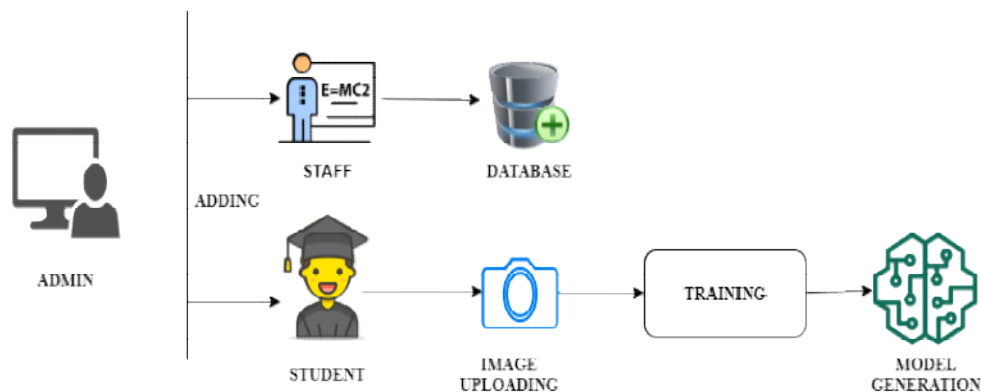

Figure 4.1.1 Admin Module

Input   Student image

Output Model of the student

Step 1 Addition of faculty and students.

Step 2 Storing the details of student and staff into the database.

Step 3 Allowing students to capture the image.

Step 4 Uploading the captured image of the student.

Step 5 Using face recognition algorithm the training has been done for the uploaded

   image of a particular student.

Step 6 Model is generated for each student.

Step 7 Generated models are stored in separate folders.

Step 8 Save the folder name with the ID number of the student.

4.2 DESCRIPTION OF TEACHERS MODULE

In this module faculty has the access for taking attendance of the student, report generation and sending alert mail for the parents. Attendance are stored in excel format for further use.
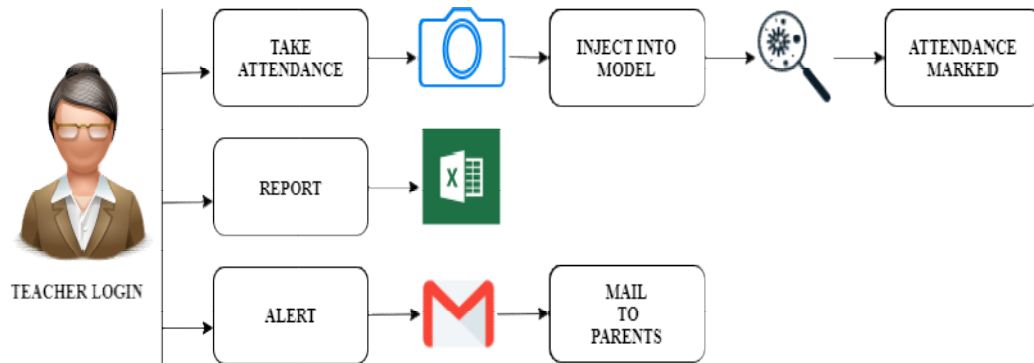

Figure 4.2.1 Teachers Module

Input Student image

Output Attendance report.

Step 1 Teacher allows students to capture images of the student.

Step 2 Captured image is injected into the model.

Step 3 The image is compared with the generated model.

Step 4 By entering the corresponding roll number and subject code the attendance will be marked.

Step 5 If the model is not present it will prompt the staff to add the student.

Step 6 Hence the attendance is stored in the Excel sheet.

Step 7 In the report generation tab the staff can generate the attendance based on hours and particular week and consolidated report.

Step 8 Staff can send mail to the student parents about the daily presence of student in the classroom.