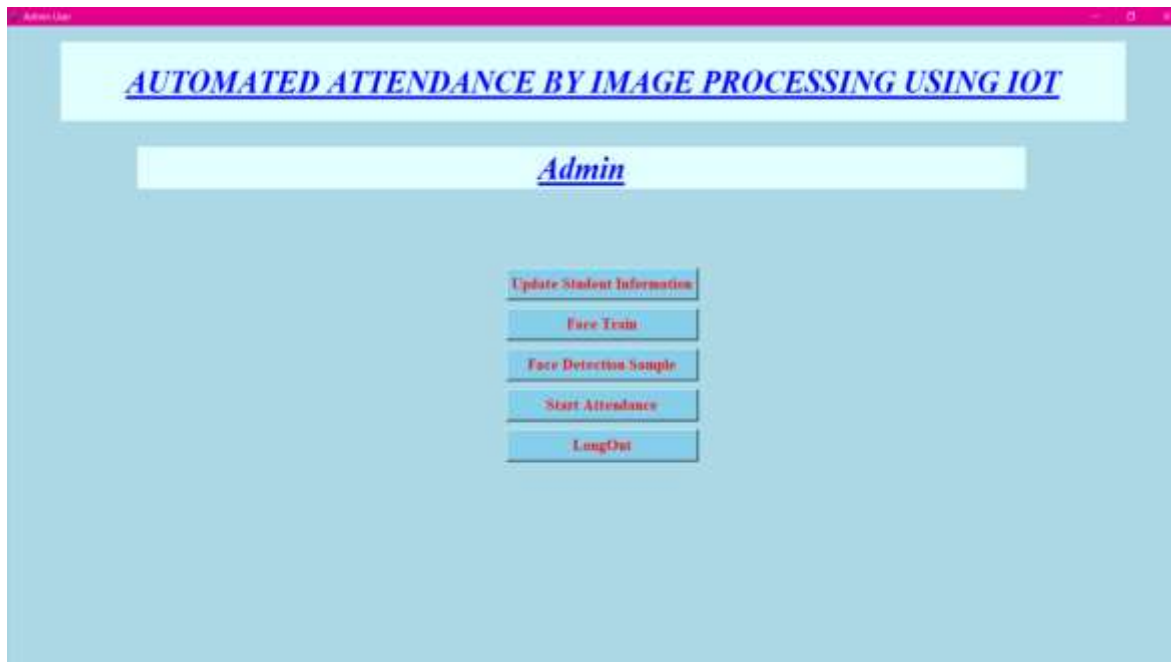# SCREENSHOTS

8.1 Applications

Figure 8.4 Applications.

Main interface will display the applications of Automated attendance system.

8.2 Update Student Information GUI

Figure 8.5 Update Student Information GUI.

Student information updater consists of registration and also remove fields in the GUI.

8.3 Register Student

AUTOMATED ATTENDANCE BY IMAGE PROCESSING USING IOT

Enter ID: Clear

Enter Name   Clear

Notification :

Register   Back

Figure 8.6 Register Student.

Student registration fields are Student unique ID and also student name with use of 60-70 sample images of student.

8.4 Train Images

AUTOMATED ATTENDANCE BY IMAGE PROCESSING USING IOT

Admin

Update Student Information
Face Train
Face Detection Sample
Start Attendance
LongOut

Figure 8.8 Train Images,

Training of faces will be done with use of face train field which is creates the trainer.yml file which can be used for recognize the images of

student.
8.5 Training Confirmation

Figure 8.9 Training Confirmation

After training it will show the training confirmation.

8.6 Verification Confirmation

Figure 8.11 Verification Confirmation

Student will be verified and confirmation will be displayed.

8.7 Attendance Marking

Figure 8.12 Starting Attendance

Attendance of student will be started with use of start attendance field.
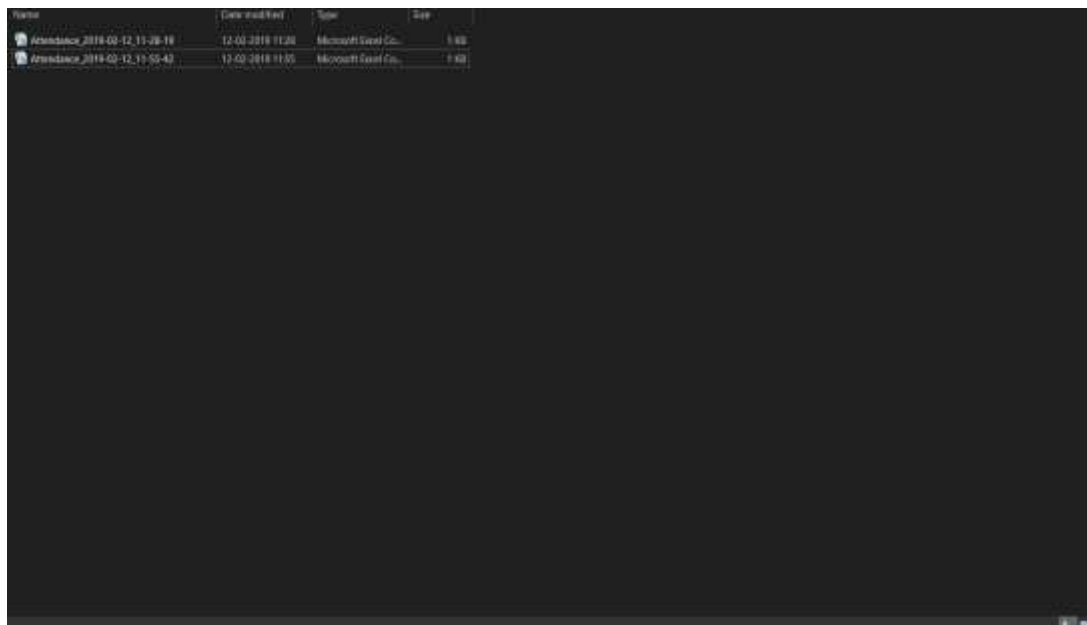
8.8 Checking Attendance From CSV File

Figure 8.15 Checking Attendance From CSV File

Checking attendance details in CSV file which contains the attendance details of student.
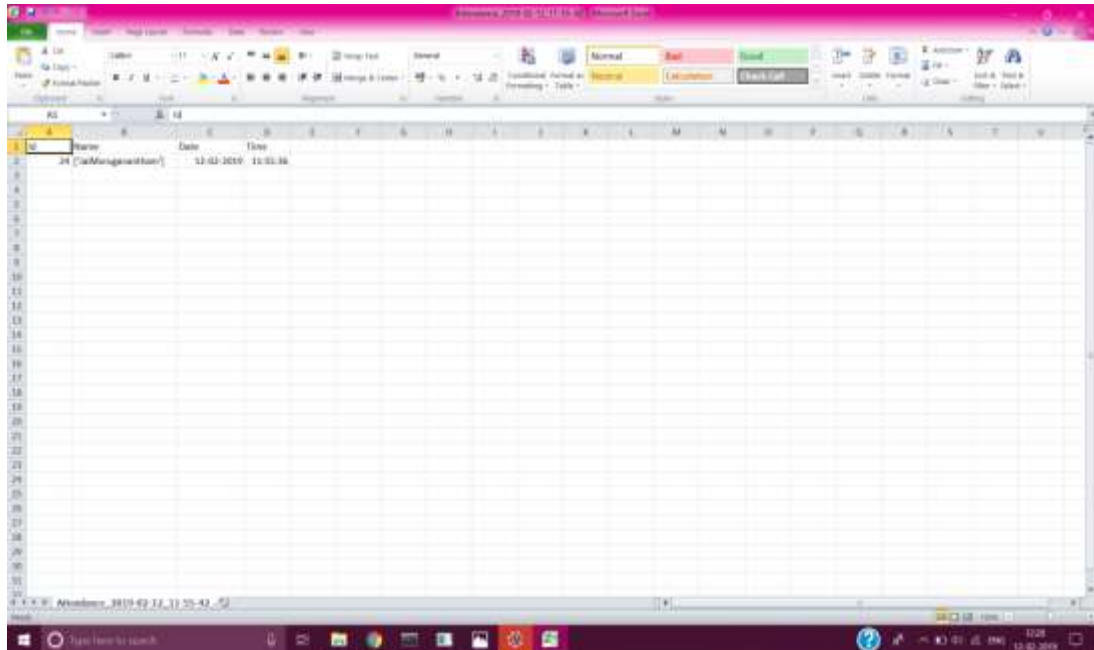
8.9 Attendance Marking Details

Figure 8.16 Attendance Marking

Attendance details will contains the name of student and time and date of class hours
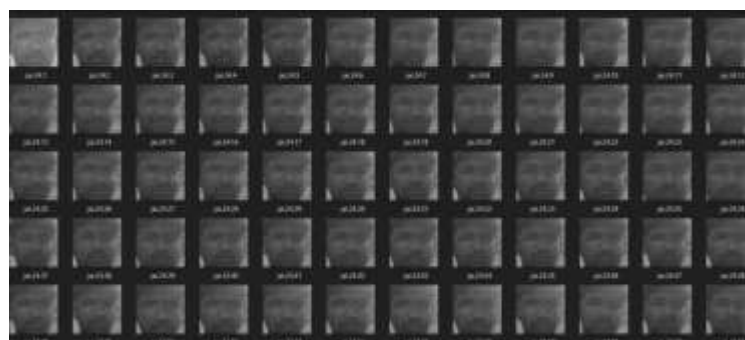
8.10 Trained Dataset

Figure 8.17 Trained Dataset

Training dataset are up to 60-70 samples which will used to train the algorithms

8.11 Attendnace Details for Staff

Figure 8.18 Attendnace Details For Staff

At end of period professors will get the attendance details of student.

8.12 Hall Ticket Generation for Student

Figure 8.19 Hall Ticket Generations for Student

Hall-Ticket for the student will be generated if attendance percentage is above 80.

The following figure 8.13 will show the hall ticket format for the government college of engineering.

GOVERNMENT COLLEGE Q ENGINEERING, BARGUR
BARGUR-635104
UNIVERSITY EXAMINATION
HALL TICKET

Register Number	«Id»	Current Semester	
Name	«Name»	D.O.B	
Examination centre		Government College of Engineering, Bargur.	

Sem	Sub Code	Subject Title
No. of Subject Registered:		

NOTE:
1. In case of candidates who have been Readmitted/Transferred, this Hall Ticket is valid only if the candidate's admission is approved by the Commissioner of Technical Education, Government of Tamil Nadu, Chennai and the Registrar, Anna University, Chennai. If any candidate appears for the examination without the approval, the examination written by the candidate will be invalidated.
2. Correction in the Name/ Date of Birth and missing of Photograph or incorrect Photograph, if any is to be updated in the Web Portal when it is opened for correction. The date and time for the correction will be informed to all colleges.
3. Instructions printed overleaf are to be followed strictly.
Generated on:

| Signature of the candidate | Signature of the Principal with seal | Controller of examination |

Figure 8.13: Hall-Ticket format

References

[1] Khan Suhel1 , Zakariya Hussain2 et al. "SURVEY ON AUTOMATED ATTENDANCE SYSTEM USING FACE RECOGNITION." Department of Computer Engineering, Kalsekar Technical Campus, New Panvel, India.

[2] Deniz Mertkan GEZGİN "A WEB-CONTROL BASED STUDENT CLASSROOM ATTENDANCE TRACKING SYSTEM APPLICATION: TUODS" Trakya Üniversitesi.

[3] Pallavi Verma, Namit Gupta et al. " FINGERPRINT BASED STUDENT ATTENDANCE SYSTEM USING   GSM" Department of Electronics and Instrumentation Engineering,SVITS, Indore (M.P.), India

[4] Aamir Nizam Ansari, Arundhati Navada, " AUTOMATION OF ATTENDANCE SYSTEM USING RFID, BIOMETRICS, GSM MODEM WITH .NET FRAMEWORK" Department of Computer Engineering, Pune Institute of Computer Technology, Pune, India

[5] Suyash Bharambe, Shubham Patil. " SURVEY - STUDENT ATTENDANCE MANAGEMENT SYSTEM" BE Student, Department Of Computer Engineering, Pimpri Chinchwad College of Engineering, Pune, Maharashtra, India

[6] Arulogun O. T., Olatunbosun, A., Fakolujo O. A., and Olaniyi, O. M."RFID-BASED STUDENTS ATTENDANCE MANAGEMENT SYSTEM" International Journal of Scientific & Engineering Research Volume 4, Issue 2, February-2013 ISSN 2229-5518

[7] Hayder Fadhil Abdulsada. " DESIGN AND IMPLEMENTATION OF SMART ATTENDANCE SYSTEM BASED ON RASPBERRY PI" Najaf Technical Institute, Al-Furat Al-Awsat Technical University, 31001 Al-Najaf, Iraq

[8] Divya Prajapati,Vidya Prajapat,Bipin Nair, Swapnil D, Ms. Manjiri Pathak. "ATTENDANCE   MANAGEMENT   SYSTEM   USING   WIRELESS

FINGERPRINT MODULE" Department of Computer Engineering Department of Computer Engineering PVPPCOE Maharashtra, India.

[9] Bradski, Gary, and Adrian Kaehler. Learning OpenCV: Computer vision with the OpenCV library. " O'Reilly Media, Inc.", 2008.

[10] International Journal of Innovative Research in Computer and communication Engineering(Vol.3,Issue 8,Aug 2015)(Automated Attendance System Using Face Recognition.)

[11] Hayder Fadhil Abdulsada " Design and Implementation of Smart Attendance System Based On *Raspberry pi", Online.
https://www.researchgate.net/publication/28473507   4   _LAS_Web-based_laboratory_attendance_   system_by_integrating _RFIDARDUINO_technology

[12] C. Saraswat and A. Kumar, "An Efficient Automatic Attendance System using   Fingerprint   Verification   Technique"   Online: http://www.enggjournals.com/ijcse/doc/IJCSE1002-0228.pdf

[13] O. Shoewu and O.A. Idowu, "Development of Attendance Management System   using   Biometrics"   Online: https://pdfs.semanticscholar.org/2dfb/66245655947a4bf66b1ffb025618e1fbcadc.pdf