**SYNOPSIS**

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| --- | --- |
| NAME | : |
| STD | : 12th Science |
| ROLL NO. | : 12SM |
| SUBJECT | : Computer Science |
| TOPIC | : Simple Banking system |
| SUBMITTED TO | : Mr. Hitesh Patel |
| YEAR | : 2021 – 2022 |
| SCHOOL | : V & C Patel English School |

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Teacher’s Sign Student's Sign Principal’s Sign

Attendance Management System

A Project submitted to the V and C Patel English School

As an Evidence of my work

In

**Computer Science**

Submitted by

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Under the Supervision of

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V AND C PATEL ENGLISH SCHOOL

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**Acknowledgement**

I would like to express my salutation to god for giving me the confidence and moral boost to successful completion of this project. Numerous people have been instrumental in enabling me to give a concrete shape to this project. However, I must mention the names of few of who have made catalytic impact on the development of this project.

First and fore most I would like to acknowledge the continuous encouragement and help received from my guide Mr. Hitesh Patel. I have learnt Computer Science as well as many other things for him. I am thankful to Dr. P V Satyaramesh, Principal, for providing necessary facilities at the school.

Date: 18/10/2021 TAMARU NAM

**Introduction:-**

This is our python project, we have made an attendance system which takes attendance by using face recognition technique. We have also integrated it with GUI (Graphical user interface) so it can be easy to use by anyone. GUI for this project is also made on python using tkinter module.

**Purpose:-**

The main intention of this project is to solve the issues encountered in the old attendance system while reproducing a brand new innovative smart system that can provide convenience to any institution or school who chooses to use this new technology. It also helps digitalize the old folder and paper based system that we are using in this day and age .

**The following are objectives of the project:**

▪ To develop a portable Smart Attendance System which is handy and self- powered.

▪ To ensure the speed of the attendance recording process is as fast as approximately 5 second for each student.

▪ Have enough memory space to store the database.

▪Able to recognize the face of an individual accurately based on the face database.

▪ Allow parents to track their child's attendance.

▪ Develop a database for the attendance management system.

▪ Provide a user-friendly interface for admins to access the attendance database and for non-admins (parents) to check their child's attendance by mailing the attendance.

▪ Allow new students or staff to store their faces in the database by using a GUI.

▪ Able to show an indication to the user whether the face- recognition process is successful or not.

**TECHNOLOGY USED:**

* tkinter for whole GUI
* OpenCV for taking images and face recognition
* Excel file is used to save our attendance
* CSV, Pandas, datetime etc. for other purposes.

**FEATURES:**

* Easy to use with interactive GUI support.
* Password protection for new person registration.
* Creates/Updates CSV file for details of students on registration.
* Creates a new CSV file everyday for attendance and marks attendance with proper date and time.
* Displays live attendance updates for the day on the main screen in tabular format with Id, name, date and time.

**Overview:-**

Attendance Management System basically has two main modules for proper functioning :

* First module is admin which has right for creating space for a new batch.Any entry of new faculty .Updating in subject if necessary ,and sending notice.
* Second module is handled by user which can be a fauty or an operator.User has a right of making daily attendance,generating report.Attendance can be taken in two ways:

1. On the basis of subject and month .Attendance Management System.
2. On basis of class.

**REFERENCES :**

* Class 11 and Class 12 python books
* google
* Youtube