# SMART ATTENDANCE

### **DBMS PROJECT 2015**

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### **ABSTRACT**

#### THE IDEA IN BRIEF

Attendance Monitoring is a monotonous though important exercise performed by students and teachers every day. Moreover, reliability over a manual system is always in serious doubt! In this project we present a simple system which uses face recognition to mark a student's presence.

Further, we can query over the database to check if a student's attendance is over a particular limit or not. Thus, it automates and simplifies the process of attendance management.

#### **TECHNOLOGIES USED**

- 1. **OpenCV C++** libraries to implement Face Recognition.
- 2. Qt C++ for the GUI and backend processing.
- 3. **Sqlite** for managing the Database.

#### HIGHLIGHTS AND NOVELTY

It includes open text fields for the administrator to simplify writing the queries. It also includes a "Write your own Query" box, so that a user can customize queries to generate output as per the needs.

It also, considers the fact if a student leaves a class within 40 minutes, his attendance is not marked. It notes the time when a student enters the class and leaves it and marks his attendance in the classes scheduled in that time slot.

Thus, it relieves students and teachers of marking attendance and helps prevent proxies. An automatic system makes it easier to find critical data like number of classes attended by a student of a particular subject by a particular professor, etc.

#### LOOKING AHFAD

The project is in Alpha version currently. Once it passes Beta testing, it can implemented at various locations around our own campus, maybe starting with our Computer Engineering Department!

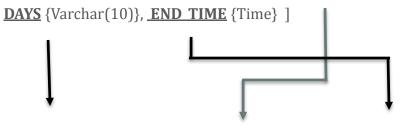
## **RELATIONAL SCHEMA**

**TABLES** 

**INFO**: Used to store daily information of students.

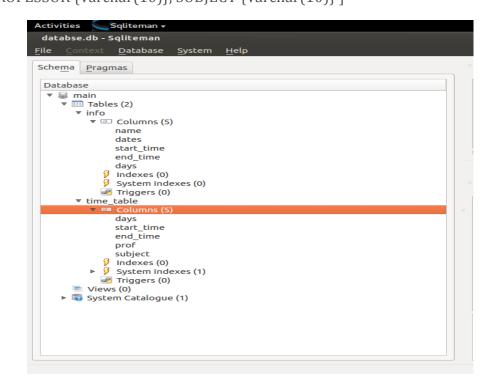
**TIME\_TABLE**: A table to record the current Time Table for a particular division.

INFO [ NAME {Varchar (10)}, DATE {Date}, START\_TIME {Time},

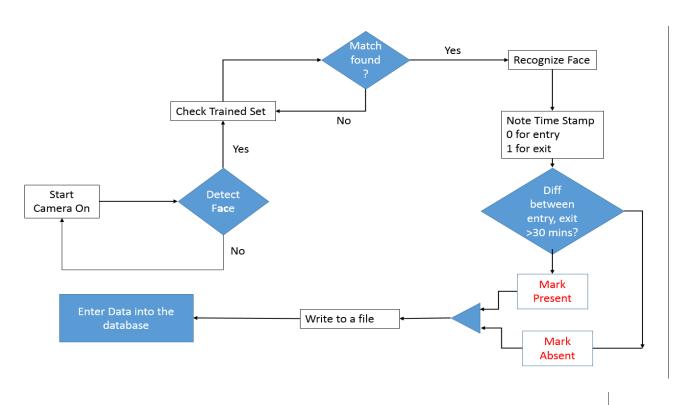


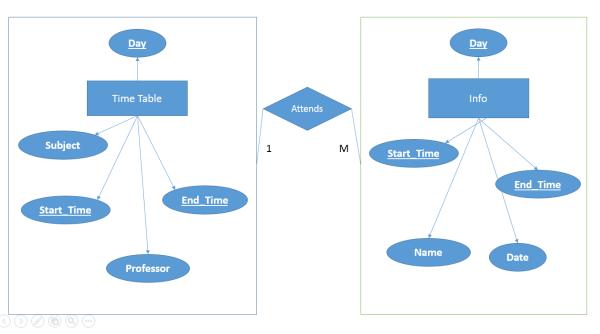
TIME\_TABLE

[ DAYS {Varchar(10)}, START TIME{Time}, END TIME {Time}, PROFESSOR {Varchar(10)}, SUBJECT {Varchar(10)}]



# PROCESS FLOW AND ER MODEL





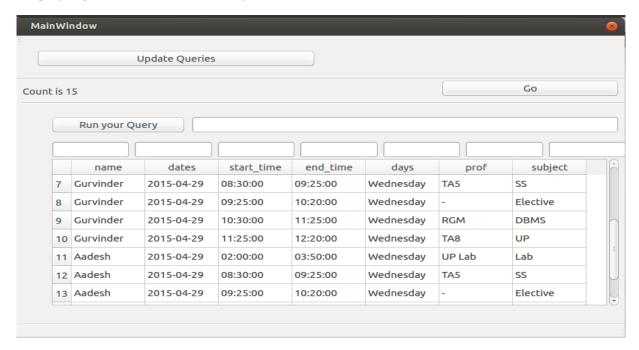
# SCREEN SHOTS

### Training in Progress

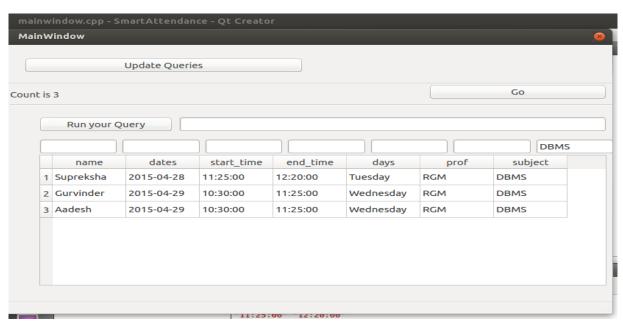


# SCREEN SHOTS

#### Displaying all Queries without any filter

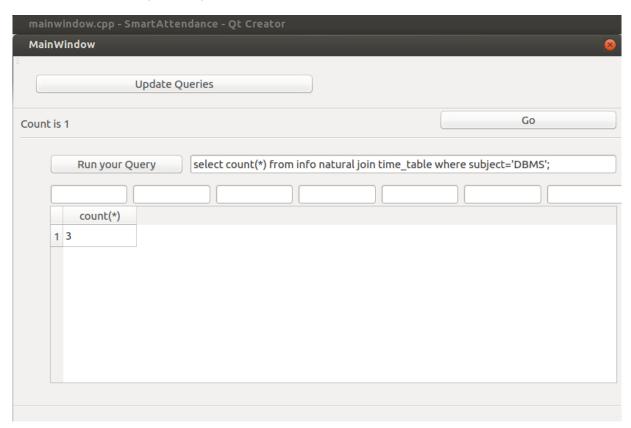


#### Queries with Filter (Automatic)



# SCREEN SHOTS

### Queries with Filter (Manual)



### A Project By:

