STUDENT VECHICLE MANAGEMENT

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ABSTRACT: The entries of students from various departments are monitored using RFID and a person other than campus based criteria's are noted and alerted at the campus gate. Face recognition feature which is a sign of high level security is included. Admin will receive a notification of entry. This process just takes few seconds which avoids congestions in entering the campus and avoids a mandatory check. The main motive is not to make wait in campus gate which avoids commotions and confusions. Disciplined vehicular regulation and control over the student transportation. Digitalized checking of vehicles & face recognition feature which adds to campus infrastructure & security.

1 Introduction

The main motive is not to make wait in campus gate which avoids commotions and confusions. Disciplined vehicular regulation and control over the student transportation. Digitalized checking of vehicles & face recognition feature which adds to campus infrastructure & security. The entries of students from various departments are monitored using RFID and a person other than campus based criteria's are noted and alerted at the campus gate.

Face recognition feature which is a sign of high level security is included. Admin will receive a notification of entry. This process just takes few seconds which avoids congestions in entering the campus and avoids a mandatory check.

2 PROPOSED SYSTEM

The RFID is linked to the RC/VC pass The vehicular entry will be of two step verification and the online entry is noted. Web-Application will receive a notification of entry and your connected mobile will get a acknowledgement. The face of the person entering into campus is compared with the respective RFID holder's face in the database .If it matches then information like Name/Dept/Year/ displayed and he is free to go. In case of mismatch the alert protocol will be implemented.

3 BEST OUTCOMES

- The process is digitalized so that efficiency and accuracy is improved.
- We have included face recognition feature which is a sign of high level security.
- The entry of students of various departments are monitored and a person other than campus based criteria's are noted and alerted at the campus gate.
- The entry time and other details are stored in database.

4 MODULE DISCRIPTION

RFID tags are small responders that respond to queries from a reader by wirelessly transmitting a serial number or similar identifier. RFID tags &

reader is used for a purpose of unique identification necessary

details of RFID holder. This method reduces manual work so we use this in our system. RFID tag is inbuilt within the vehicle. The Reader scans the vehicle and identifies the each unique RFID fixed in it.

CONTROLLER
The controller controls the data and transmits to wifi-module.

WIFI–MODULE & DATABASE
The module is used to upload the data on cloud. The Database is a storage area where the details are stored.

FACE RECOGNITION
Face recognition feature consists of two steps which is face verification and face identification.Face verification – there is one-to-one matching that compares a query face image against a template face image whose identity is being claimed. Face identification – there is one-to-many matching that compare a query face image against a template face image in the database to determine the identity of the query face image. This type of feature provides a high level security so it is used in our system.

HD – CAMERA
This is to monitor the person entering into the campus & comparing it with the respective RFID holder's details from the database.

WEB APPLICATION
The information like names, department, photo and entry time of the respected vehicle are stored and displayed.

5 CONCLUSION
The mandatory check is not possible for more number of vehicles. This system will enhance the efficiency in regulation of vehicle entry and exit

and improve accuracy of data through application. The delay and congestions are avoided and neat campus transport facility can be proposed. The entry of students of various departments are monitored and a person other than campus based criteria's are noted and alerted at the campus gate. Our technology will overcome the short comes and will be more effective and will helpful to management and authority concern. This process just takes few seconds which avoids confusions commotions and congestions in entering the campus and avoids a mandatory check

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