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2017-04-07374

IS 282: SOFTWARE DEVELOPMENT II

PROJECT TITLE: ***STUDENTS IDENTIFICATION SYSTEM***

**Project Abstract**

SID System; Is an android mobile application that is intended to solve the problem of failing to identify students eligible to seat for a certain examination when they come to the examination room without ID card. During examination period a student may forget his/her ID card or sometimes it happens it has been lost then the invigilator fails to recognize or to prove that he/she is among the students to whom the examination belongs. So it depends on the invigilator’s vibes on that day, some of them may allow the student to get into the room and taking his or her details like registration number and name then after examination he/she can go and bring his/her ID card to an invigilator so as he or she can prove that is the right student needed to seat for that exam. But sometimes there might be a bit trouble, when an invigilator fails to understand. A student may wait out of the room for some minutes answering invigilator’s questions or may be told to go back and come with an ID card and this will lead to wastage of examination time. And as we know if you will be 30 minutes late out of examination room you will not be allowed to get in.

So after seeing this problem I have come up with a solution, which is SID System. The application will be installed in an invigilator’s mobile phone. And it operates like this;

When a student comes without ID card an invigilator will use the app to scan a face of the student, then it will capture the picture of student’s face and send it to the university servers or database then it will search for the person who belongs to that picture because all university members have been registered and their details have been stored in the university database. So it will return the outputs that are the name, registration number, picture, program he/she pursue as well as his/her college and if he/she is or not allowed to seat for that exam. Then the invigilator will be sure that the students belongs to that exam and will allow him/her to get in. But it can also search the student’s details by entering registration number instead of scanning a face due to different reasons may be a girl has come to the examination room with *make-up* and some issues like that.

So, this is just for the initial stage but we can move to further improvements of this app to the extent it can be used by the security guards in their security activities at the university. This is where by sometimes university security guards or auxiliary police during their patrol at night may find someone around university areas and get doubt on him/her then may ask for his/her identification card, if he/she doesn’t have then police will scan the face using the app and recognize who is that person in the university. If the app won’t show up any details about the guy so it implies that is not among university member, so the police will know what to do.

**Tools to be used**

1. Android Studio
2. Visual Studio Code
3. Sdk
4. MySql

**Frontend Language**; Ionic framework

**Backend Language**; Laravel framework