**Project Proposal**



Students Attendance System Project:

Project Proposal

Student Arshdeep Sidhu

**Introduction**In this paper we describe a modification of a simple Arduino based RFID attendance system. The original project idea, which is everywhere on the internet, makes use of the RTC and SD Cards to log when did the students mark their attendance, but from my point view, they all lacked something very important, which is the ability of adding/removing students out of the system \*easily\*. I would like to keep the system very simple, instead of connecting to databases and so, I think that storing the IDs on the internal EEPROM is sufficient for the demonstration, maybe as an improvement we can instead grab the IDs from a database and still have the ability to add/remove IDs using a master card.

**Motivation**Usually the normal attendance system is time consuming and may contain many errors due to bad handwriting and so on, this is because it is taken on paper, but using an RFID tag to which every student has his own tag, will make things much easier and faster, and the ability to add/remove IDs in the run-time without going back to the code, is much more efficient as well. And with the hope of integrating the system with Wi-Fi and storing the IDs on a database instead of internal EEPROM, this is going to be amazing.

**Materials Required**1 x Breadboard

1 x Arduino Uno

1 x Soldering station

1 x RFID RC 522 Card reader Module

4 x Smart Card chip

1 x serial LCD module display

3 x 220 Ohm, 0.25W Carbon Film Resistor

1 x potentiometer

2 x buttons

3 x LEDS (any three color you like)

1 x buzzer

Jumpers Wires

**Team Roles**If I were a part of a team, I would discuss what sort of roles each teammate would play. For example, perhaps one of us is not particularly experienced at programming but really good at documentation -- it'd probably be a good idea to have that person work on the github documentation / writing the paper. Etc. etc.  
If I were a part of a team, maybe we could have researched into PCBs design and manufacturing so that we can order one for our project.  
If I were a part of a team, maybe we could have done the Wi-Fi integration part with an actual database hosted on the internet.

**Summary**If this project turns out as proposed, it would be a huge contribution to the already made systems with SD-cards logging and RTCs, the only thing left would to be integrating both to a database, and voila we have an amazing system.

NOTE: Sorry DR. T I forget to submit my project proposal. So, I attached it here.f

**Reference**

<https://create.arduino.cc/projecthub/team_chkr/rfid-based-smart-attendance-system-46b045>