



INNOVATIVE ATTENDANCE SYSTEM

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Manual vs Automated Attendance System

traditional attendance tracking method includes punch locks or some other sort of manual system. However, this method requires consistent human supervision.

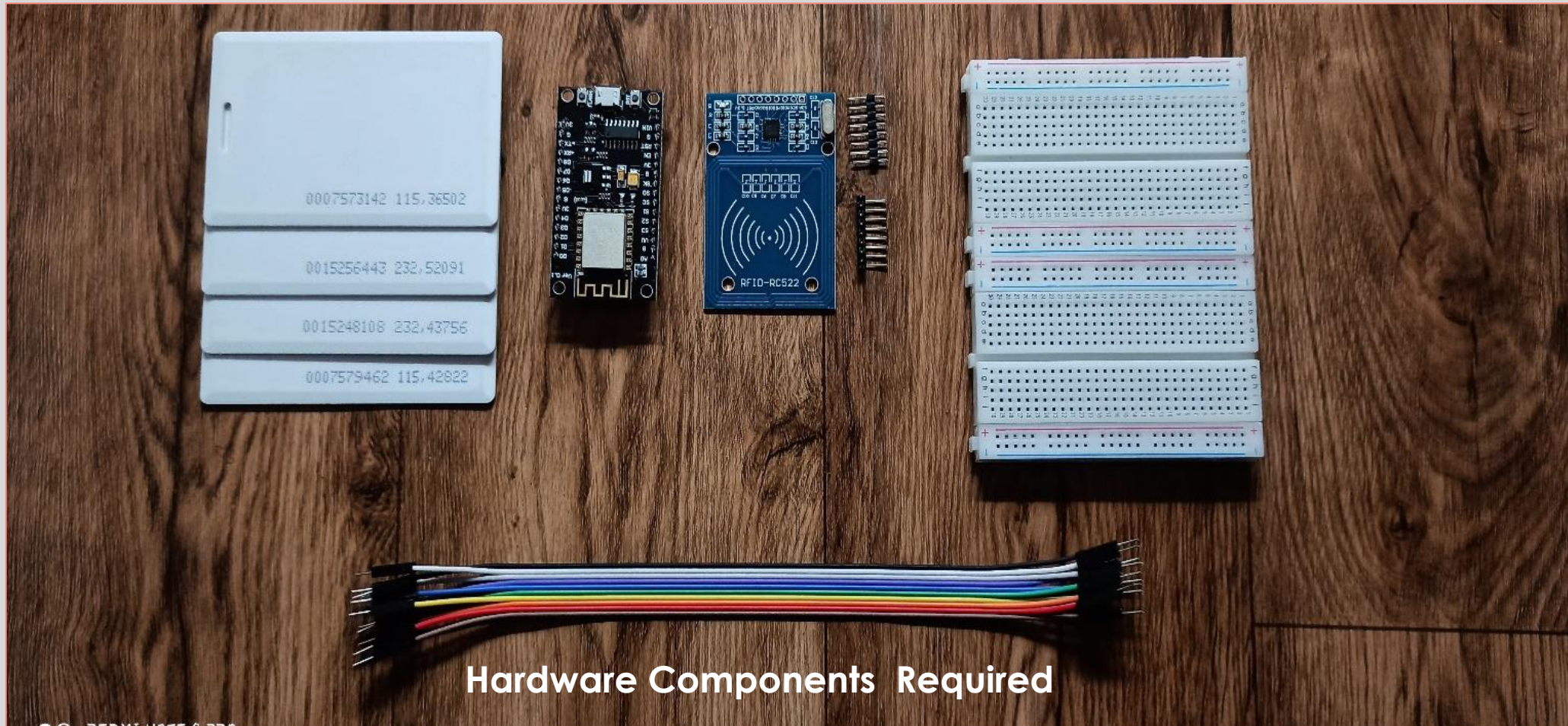
VS

the **Evolving technology** has led to the introduction of the automated attendance system that provides much better results.

INTRODUCTION

- The RFID based attendance system is developed using PHP, CSS, and Javascript. An RFID Based Attendance System Using NodeMCU is a modern attendance system. Hence, is a very interesting project. It can be useful in different places like schools, Colleges, industry and private organizations to register the attendance of students, teachers, employees, etc. to tabulate monthly/daily working hours automatically. When the person with the correct RFID card swipes his/her RFID tag, His/Her arrival time will be stored in system Log. Usually, when the same person swipes his/her RFID tag again, the system will save it as his/her leaving time.

Hardware _ I.A.System

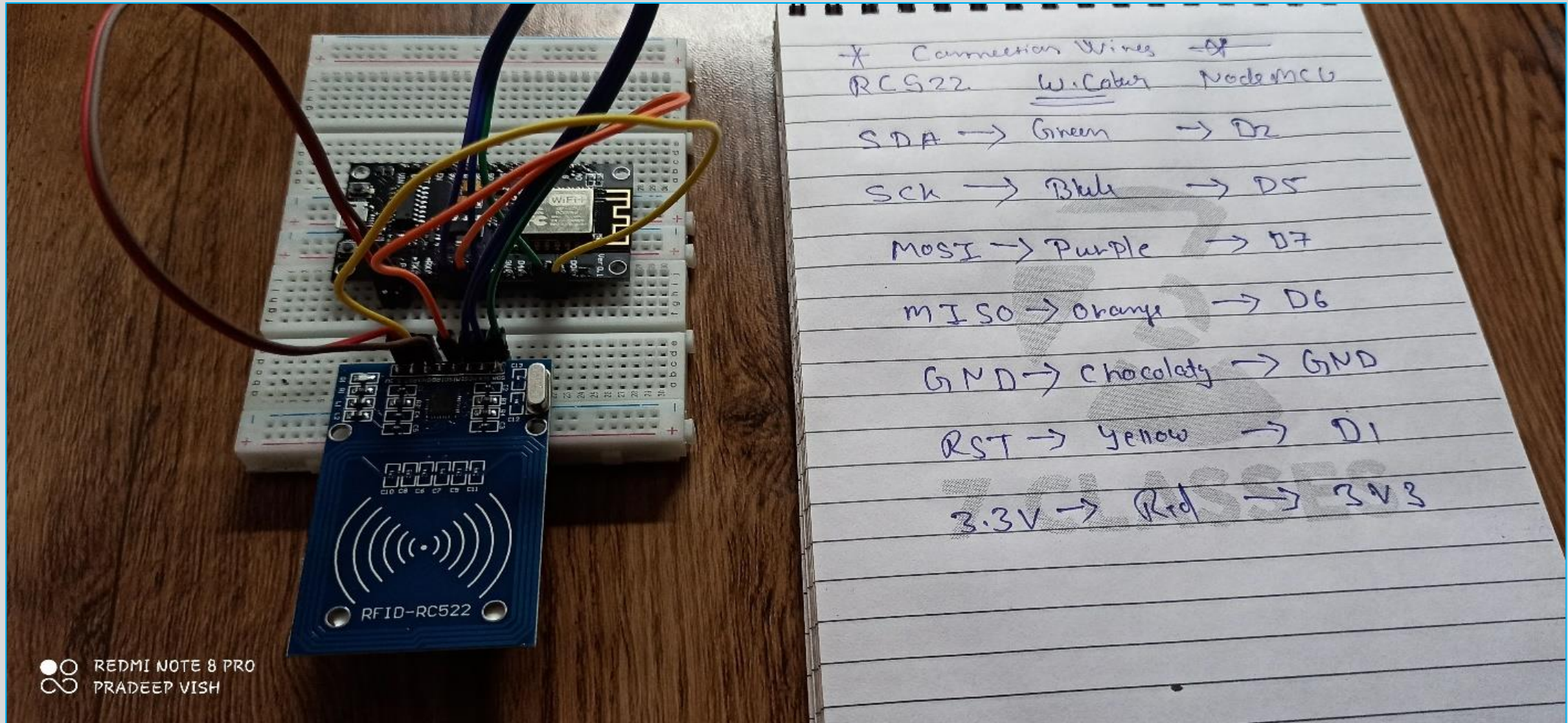


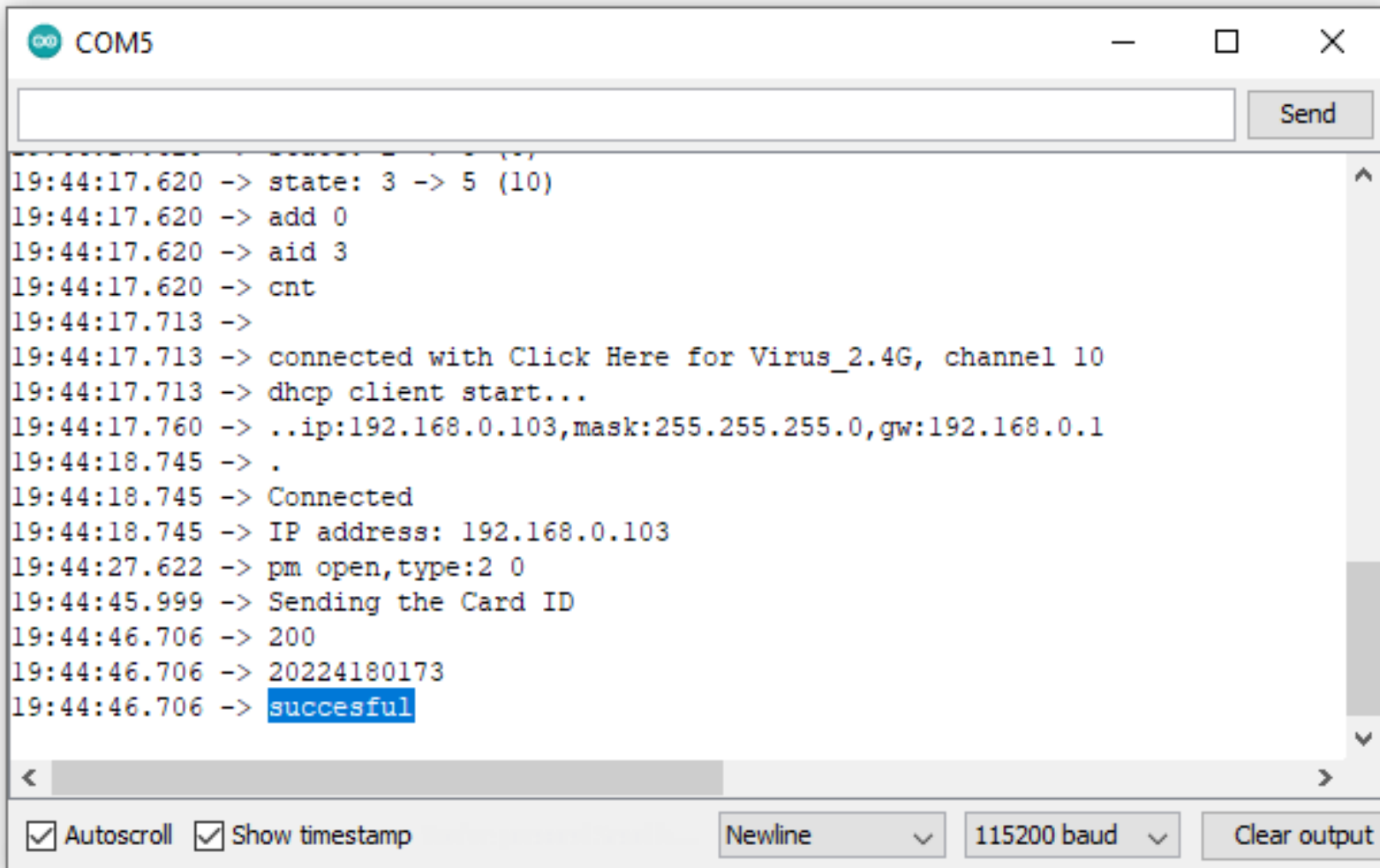
Step 1: Configure **ESP8266 NodeMCU** >> connecting wires

Project Description

- Here We are going to connect Node MCU ESP8266 and RFIDRC522 with MYSQL Database. So for that first we should connect our Node MCU ESP8266 Board with RFID Module. By using the RFID Module we are going to scan our RFID card and tag which are allow or not. And by using our ESP8266 we are going to send that data to our MYSQL Database which is connect through a getdata.php page.

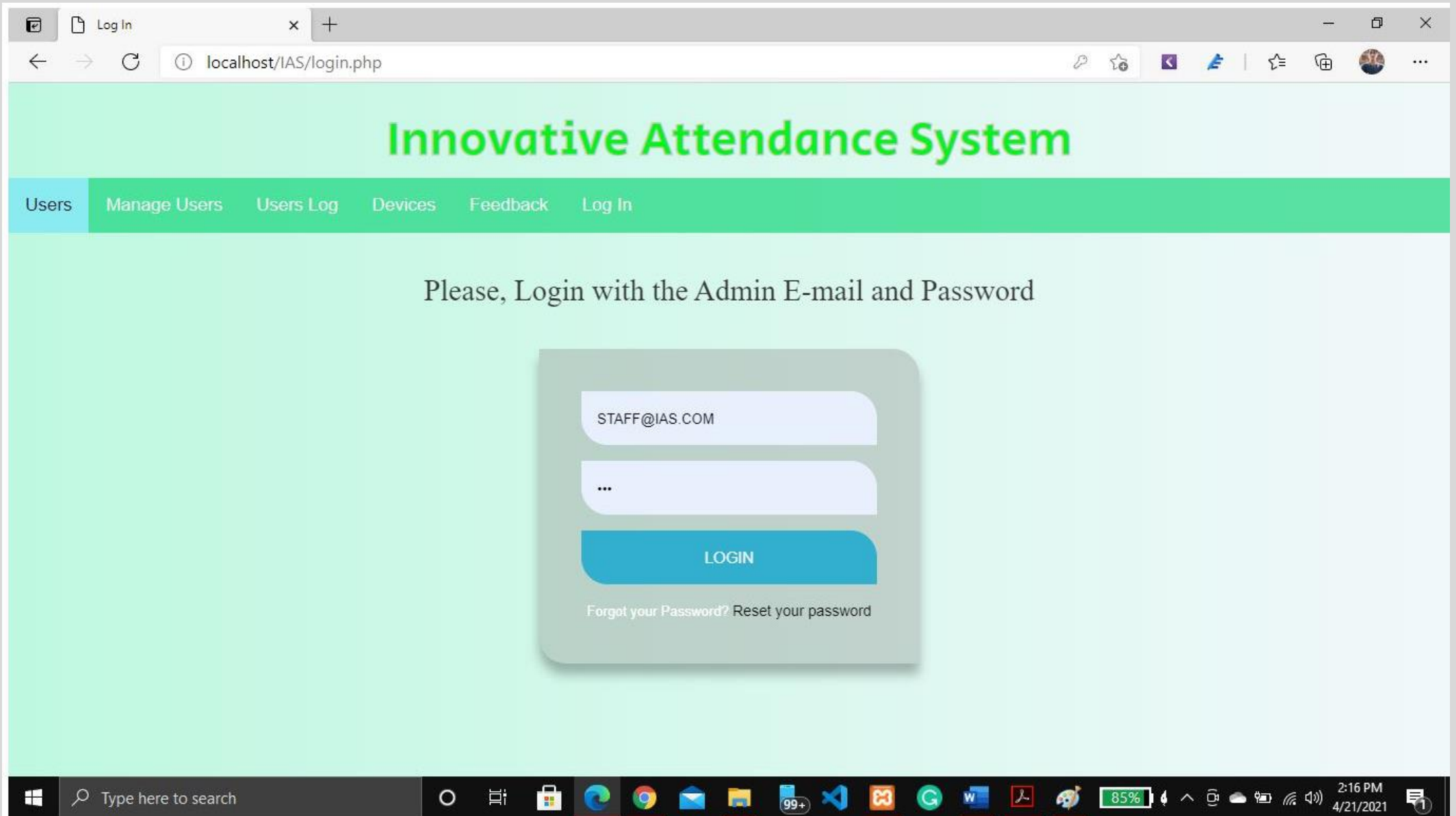
Step 2: Configure RC522 (rfid reader) TO ESP8266 NodeMCU (MICROCONTROLLER)





```
COM5
19:44:17.620 -> state: 3 -> 5 (10)
19:44:17.620 -> add 0
19:44:17.620 -> aid 3
19:44:17.620 -> cnt
19:44:17.713 ->
19:44:17.713 -> connected with Click Here for Virus_2.4G, channel 10
19:44:17.713 -> dhcp client start...
19:44:17.760 -> ..ip:192.168.0.103,mask:255.255.255.0,gw:192.168.0.1
19:44:18.745 -> .
19:44:18.745 -> Connected
19:44:18.745 -> IP address: 192.168.0.103
19:44:27.622 -> pm open,type:2 0
19:44:45.999 -> Sending the Card ID
19:44:46.706 -> 200
19:44:46.706 -> 20224180173
19:44:46.706 -> succesful
```

☒ Autoscroll ☒ Show timestamp Newline 115200 baud Clear output

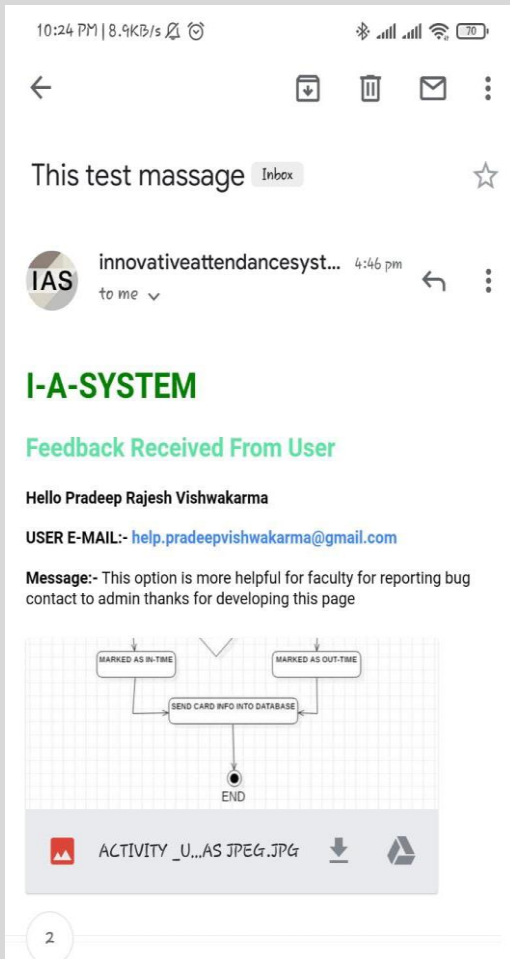


Innovative Attendance System

HERE ARE THE USERS DAILY LOGS

Log Filter/ Export to Excel

| ID | NAME | SERIAL NUMBER | CARD UID | DEVICE DEP | DATE | TIME IN | TIME OUT |
|----|--------|---------------|-------------|------------|------------|----------|----------|
| 8 | USER 1 | 1 | 282224949 | I.T. DEPT. | 2021-04-17 | 18:12:45 | 18:12:47 |
| 7 | USER 1 | 1 | 282224949 | I.T. DEPT. | 2021-04-17 | 18:11:21 | 18:11:33 |
| 6 | USER 2 | 2 | 20224180173 | I.T. DEPT. | 2021-04-17 | 18:11:13 | 18:11:15 |
| 5 | USER 1 | 1 | 282224949 | I.T. DEPT. | 2021-04-17 | 15:32:24 | 16:13:35 |
| 4 | USER 2 | 2 | 20224180173 | I.T. DEPT. | 2021-04-17 | 15:31:45 | 15:32:18 |
| 3 | USER 1 | 1 | 282224949 | I.T. DEPT. | 2021-04-17 | 01:04:28 | 01:05:35 |
| 2 | USER 2 | 2 | 20224180173 | I.T. DEPT. | 2021-04-17 | 01:04:20 | 01:05:32 |
| 1 | USER 1 | 1 | 282224949 | I.T. DEPT. | 2021-04-17 | 01:01:06 | 01:01:34 |



Admin_inbox

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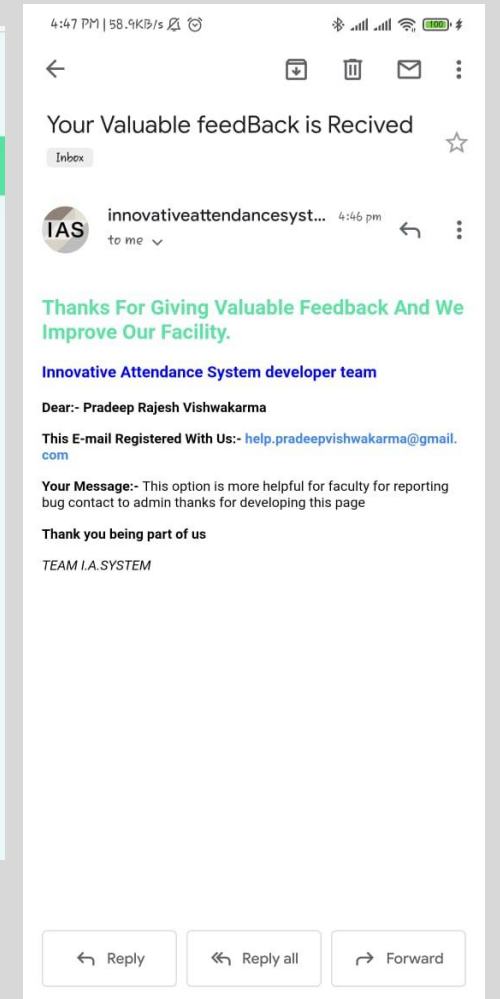
Users
Users Log
Devices
Feedback
PRADEEP VISHWAKARMA
Log Out

Give a feedback

Help improve Our products Sending to feedback I.A. Sys. TEAM.

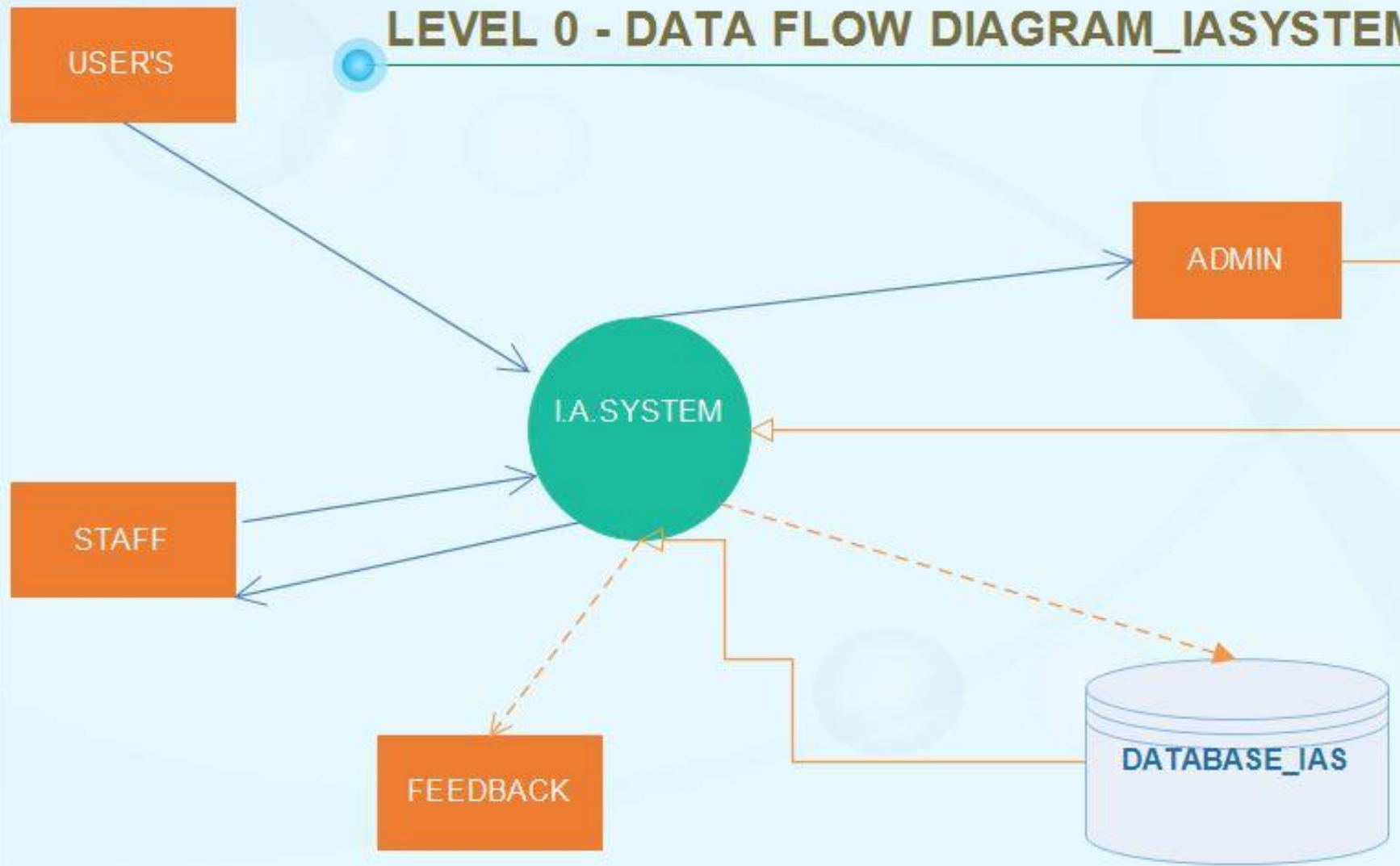
ERD_IAS2.bmp

SUBMIT YOUR FEEDBACK



Sender_inbox

LEVEL 0 - DATA FLOW DIAGRAM_IASYSTEM





Future Development:-

- 1) We can voice announcement system to this project. So whenever user logs in, we can announce message like, "Your attendance has been logged in" or "Your card is invalid".
- 2) We can send this data through internet to the user. So that user can access it remotely via internet.
- 3) We can implement GSM technology. So this project will be advanced to RFID Attendance System With SMS Notification.



Thank You