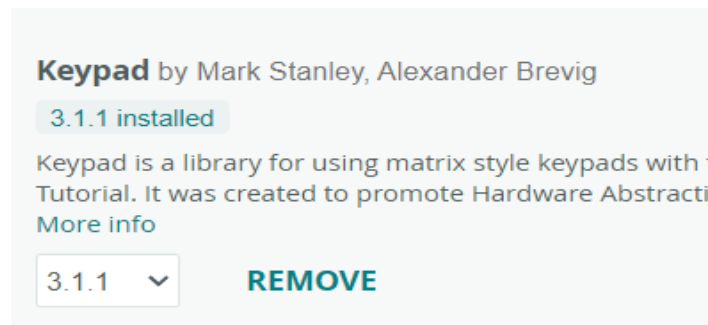
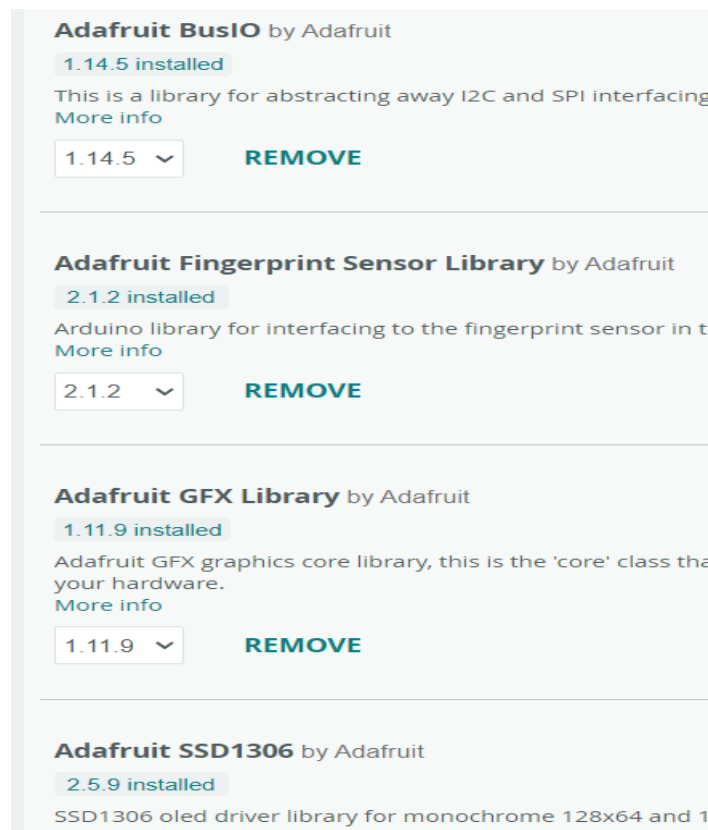


USER MANUAL

- Install Arduino IDE 2.2.1 for windows and let all required files are downloaded after install (<https://www.arduino.cc/en/software>)
- Install libraries
 - file-> preference -> Additional BM URL-> Past this link https://dl.espressif.com/dl/package_esp32_index.json
 - Sketch-> include libraries -> manage libraries -> install all these



- Change your WI-FI SSID (Name), Password in Arduino code

```
const char* ssid      = "your WIFI NAME";
const char* password = "password";
```

- Change the Registration number method in the code

```
"GetFingerprintID()"
```

Instead of **"NAME/E/"** change your preferred tag and the ID will indicate the Numerical number where you have input to enroll the finger

- Enroll with students Reg numerical number for ID while enrolling
 - 2019/E/005 ----- input ID = 5 while enrolling by keypad
 - 2019/E/015 ----- input ID = 15 while enrolling by keypad
 - 2019/E/110 ----- input ID = 110 while enrolling by keypad
- and upload the code by connecting with device ESP32 micro controller board via USB to Micro USB cable

```

338
339 //saving Re number in Google sheet
340 for (int fingerID = 1; fingerID <= 1000; fingerID++)
341 {
342     if (finger.fingerID == fingerID)
343     {
344         // Format ID with leading zeros based on the value
345         if (fingerID <= 9)
346         {
347             ID = "00" + String(fingerID);
348         }
349         else if (fingerID > 9 && fingerID <= 99)
350         {
351             ID = "0" + String(fingerID);
352         }
353         else
354         {
355             ID = String(fingerID);
356         }
357         NAME = "2019/E/" + ID;
358         if (finger.confidence >= 50)
359         {
360             display.clearDisplay();
361             display.setCursor(0, 14);
362             display.print("Marked : "); display.println(NAME);
363             delay(100);
364             display.setCursor(0, 28);
365             display.print("remove finger");

```

ATTENDANCE DATA DRIVE

- Gmail ["attendancecollection@gmail.com"](mailto:attendancecollection@gmail.com)
PASSWORD "Attendance.27"

Device Handling Manual





CHARGING PORT



USB PORT
(Connecting to ESP32 module)

SWITCHES

A – Press to enroll the Student ID no and fingerprint.

B - Press to verify the fingerprint data and mark the attendance then send to google sheet.

C – Press to choose/ok

D – Press to selection mode Enroll/Verify only from Enroll mode

How to use

Check the charge is in the battery full or not. (Connecting the charger to the device, if it blinks as blue, it will be fully charged)

Power on the Device using the power button.

When you press the A, It will be ready to get fingerprint data with the student ID no.

After you successfully enrolled the fingerprint, it will store the fingerprint data of each IDs in its flash memory. It can hold up to 1000 IDs.

When you press B, it will be ready to verify and take attendance, then it will start to connect with WiFi. After it's connected with Wifi, It will start to work.

After you place the fingerprint, it will detect it and show the ID number on the screen. And it will mark the attendance in the google simultaneously.

Disclaimer – This manual and methods only for this prototype. It is under developing now. In future, it will be developed as a device that is easy to use and doesn't need to connect with computer often.

Also it will be compact in size.