

-Saftey Helmet 6





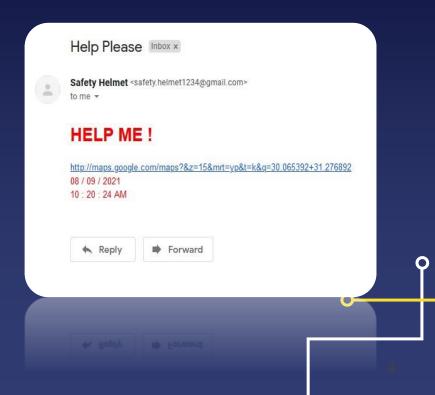
Project Aim:





Project Description:

Any bike rider can use it to safe himself from accidents When the helmet hit any thing, the mobile application start count to 30 second and if the bike rider don't stop it The helmet sends E-mail to specific person with the location to get help



Our Component:

01

NodeMCU (ESP8266 Wi-Fi) 02

Ublox NEO-6m GPS Module

03

Vibration Sensor Module (801S)



Some of Code:

```
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void smtpCallback(SMTP Status status)
  Serial.println(status.info());
  if (status.success()){
   Serial.println("-----");
   ESP MAIL PRINTF("Message sent success: %d\n", status.completedCount());
    ESP MAIL PRINTF("Message sent failled: %d\n", status.failedCount());
   Serial.println("-----\n");
    struct tm dt:
    for (size t i = 0; i < smtp.sendingResult.size(); i++)</pre>
     SMTP Result result = smtp.sendingResult.getItem(i);
     time_t ts = (time_t)result.timestamp;
     localtime_r(&ts, &dt);
     ESP_MAIL_PRINTF("Message No: %d\n", i + 1);
     ESP_MAIL_PRINTF("Status: %s\n", result.completed ? "success" : "failed");
     ESP_MAIL_PRINTF("Date/Time: %d/%d/%d %d:%d:%d\n", dt.tm_year + 1900, dt.tm_mon + 1, dt.tm_mday, dt.tm_hour, dt.tm_min, dt.tm_sec);
     ESP MAIL PRINTF("Recipient: %s\n", result.recipients);
     ESP_MAIL_PRINTF("Subject: %s\n", result.subject);
    Serial.println("-----\n");
```

```
void sendemail()
 smtp.debug(1);
 smtp.callback(smtpCallback);
 ESP_Mail_Session session;
 session.server.host_name = SMTP_HOST;
 session.server.port = SMTP PORT;
 session.login.email = AUTHOR_EMAIL;
 session.login.password = AUTHOR_PASSWORD;
 session.login.user_domain = "";
 SMTP Message message;
 message.sender.name = "Safety Helmet";
 message.sender.email = AUTHOR EMAIL;
 message.subject = "Help Please";
 message.addRecipient("team-12", RECIPIENT EMAIL);
 String htmlMsg = "<div style=\"color:#FF0000;\"><h1>HELP ME !</h1>" + sms + "</div>";
 message.html.content = htmlMsg.c str();
 message.text.charSet = "us-ascii";
 message.html.transfer_encoding = Content_Transfer_Encoding::enc_7bit;
 if (!smtp.connect(&session))return;
 if (!MailClient.sendMail(&smtp, &message))
   Serial.println("Error sending Email, " + smtp.errorReason());
```

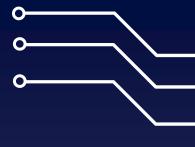




```
void setup()
  Serial.begin(115200);
  ss.begin(9600);
  Blynk.begin(auth, WIFI_SSID, WIFI_PASSWORD);
  Serial.println();
  Serial.print("Connecting to AP");
  WiFi.begin(WIFI SSID, WIFI PASSWORD);
  while (WiFi.status() != WL CONNECTED)
    Serial.print(".");
    delay(200);
  Serial.println("");
  Serial.println("WiFi connected.");
  Serial.println("IP address: ");
  Serial.println(WiFi.localIP());
  Serial.println();
  pinMode(vebration, INPUT);
  pinMode(led wifi, OUTPUT);
  pinMode(counter, OUTPUT);
  digitalWrite(led wifi, HIGH);
  time1=millis();
```

```
void loop()
  gps_fn();
  Blynk.run();
  int num = digitalRead(vebration);
  if (num == 1 && run2)
    Serial.println("count is started for 30 second");
    run1 = true;
    run2 = false;
    time1 = millis();
    digitalWrite(counter, HIGH);
  if (run1)
    if (pin==0)
      if (millis() - time1 > 30000)
        sendemail();
        time1 = millis();
        run1 = false;
        run2 = true;
        digitalWrite(counter, LOW);
      run1 = false;
      run2 = true;
      digitalWrite(counter, LOW);
      Serial.println("count is stoped :( ");
```





Thanks

