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## LAMPIRAN

### Lampiran. Source Code Arduino IDE

```
#include "src/OV2640.h"
#include <WiFi.h>
#include <WebServer.h>
#include <WiFiClient.h>
#include <WebSocketsServer.h>
#include "soc/soc.h"
#include "soc/rtc_cntl_reg.h"
#define CAMERA_MODEL_AI_THINKER
#define SSID1 "Vie"
#define PWD1 "vieda123"
#include "camera_pins.h"
OV2640 cam;
WebSocketsServer webSocket = WebSocketsServer(81);
WebServer server(80);
const char HEADER[] = "HTTP/1.1 200 OK\r\n" \
    "Access-Control-Allow-Origin: *\r\n" \
    "Content-Type: multipart/x-mixed-replace;
boundary=123456789000000000000987654321\r\n";
const char BOUNDARY[] = "\r\n--123456789000000000000987654321\r\n";
const char CTNTTYPE[] = "Content-Type: image/jpeg\r\nContent-Length:
";
const int hdrLen = strlen(HEADER);
const int bdrLen = strlen(BOUNDARY);
const int cntLen = strlen(CTNTTYPE);
uint8_t cam_num;
bool connected = false;
static const char PROGMEM INDEX_HTML[] = R"rawliteral(
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>ESP32-CAM NUMBER RECOGNITION (OCR)</title>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width,initial-
scale=1" />
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.8.0/jquery.min
.js"></script>
    <script
src="https://unpkg.com/tesseract.js/dist/tesseract.min.js"></scrip
t>
```

```

<style>
  .container {
    display: flex;
    align-items: center;
    flex-wrap: wrap;
    gap: 25px;
  }
  .container1 {
    display: flex;
    align-items: start;
    gap: 25px;
  }
  .camera {
    display: flex;
    align-items: end;
  }
  .camera2 {
    display: flex;
    flex-direction: column;
  }
  .captured {
    display: flex;
    flex-direction: column;
  }
  .result-section {
    width: 400px;
    display: flex;
    flex-direction: column;
    margin-left: 220px;
    margin-top: 50px;
    /* border: 1px black solid; */
  }
  .camera-box {
    height: 300px;
    width: 400px;
  }
  .result-box {
    height: 100px;
    width: 400px;
    color: red;
    font-size: xx-large;
    border: 1px gray solid;
  }
  .button-style {
    padding: 5px 10px 5px 10px;
  }
  .start-interval-button {

```



```

        background: green;
        padding: 5px 10px 5px 10px;
    }
    .stop-interval-button {
        background: red;
        padding: 5px 10px 5px 10px;
    }
}
</style>
</head>
<body>
  <h1 style="text-align: center;">ESP32-CAM NUMBER RECOGNITION
  (OCR)</h1>
  <div
    style="
      display: flex;
      align-items: center;
      justify-content: center;
      gap: 5px;
      margin-bottom: 20px;
    "
  >
    <h3>via</h3>
    
  </div>
  <div class="container">
    <div>
      <p>OCR Mode</p>
      <select
        id="intervalControl"
        onchange="handleIntervalControlChange()"
      >
        <option disabled selected value="">Choose
        Mode</option>
        <option value="stop">Manual</option>
        <option value="start">
          Automatic (interval 5 minutes)
        </option>
      </select>
      <div style="margin-top: 10px" id="interval-button"
        hidden>
        <input
          type="button"

```

```

        class="start-interval-button"
        value="Start"
        id="startInterval"
    />
    <input
        type="button"
        class="stop-interval-button"
        value="Stop"
        id="stopInterval"
    />
</div>
</div>
<div class="container1">
    <div class="camera">
        <div class="camera2">
            <!-- <input
                type="button"
                id="getStill"
                value="Start Stream"
                class="button-style"
            /> -->
            <h2>Video Stream</h2>
            <img class="camera-box" id="ShowImage"
src="" />
                <input
                    type="button"
                    id="getCapture"
                    value="Process Image"
                    class="button-style"
                />
            </div>
            <!-- <div>
                <input
                    type="button"
                    id="getCapture"
                    value="Capture"
                    class="button-style"
                />
            </div> -->
        </div>
    </div>
    <div class="captured">
        <h2>Captured Image</h2>
        <img id="ShowCapture" src="" class="camera-box"
/ >
            <!-- <input
                type="button"
                id="save"
            />

```

```

        value="Save"
        class="button-style"
    /> -->
</div>
</div>
<div>
    <!-- <input
        type="button"
        id="resultButton"
        value="Result"
        class="button-style"
    /> -->
</div>
<!-- <div>
    <input
        type="button"
        id="repeat"
        value="Repeat Every 5 minutes"
        class="button-style"
    />
</div> -->
</div>
<div class="result-section">
    <h2>OCR Result</h2>
    <div class="result-box" id="result"></div>
    <input
        type="button"
        id="sendToSheet"
        value="Send Image and Result"
        class="button-style"
    />
</div>
<p>* Captured image file: <a target="_blank"
href="https://drive.google.com/drive/folders/1kzjzHPHm460CT1p7eNS61D
5F4y1D62kW?usp=drive_link">Google Drive</a></p>
<p>
    * OCR Result data:
    <a
        target="_blank"
        href="https://docs.google.com/spreadsheets/d/1iNLIX5
WM56CNU5tjGVp36tWkKRx44Bokx-topKS-ID4/edit#gid=0"
    >Google Sheet</a
    >
</p>
<script>
    var getStill = document.getElementById("getStill");
    var getCapture = document.getElementById("getCapture");

```



```

    var getResult = document.getElementById("resultButton");
    var saveButton = document.getElementById("save");
    var sendToSheetButton =
document.getElementById("sendToSheet");
    var ShowImage = document.getElementById("ShowImage");
    var ShowCapture =
document.getElementById("ShowCapture");
    var result = document.getElementById("result");
    var resultAuto = document.getElementById("result-auto");
    var repeatButton = document.getElementById("repeat");
    var startIntervalBtn =
document.getElementById("startInterval");
    var stopIntervalBtn =
document.getElementById("stopInterval");
    var myTimer;
    var restartCount = 0;
    var intervalId;
    var intervalCount = 0;
    // getCapture.hidden = false;
    // sendToSheetButton.hidden = false;
    var websocketConnected = false;
    var capturedBase64 = ""
    startIntervalBtn.onclick = function (event) {
        startInterval();
    };
    stopIntervalBtn.onclick = function (event) {
        stopInterval();
    };
    sendToSheetButton.onclick = function (event) {
        const res = result.innerHTML.replace(/<br>/g, "");
        console.log("result", res);
        const appscriptUrl =
"https://script.google.com/macros/s/AKfycbwFaEMjtiQ2VjEHKMazmI_8j5UT
im_Kk9tSLFXBLj9GMQNsUUEwwzPuA8m_052hRBBw/exec"
        const date = new Date()
        fetch(appscriptUrl, {
            mode: "no-cors",
            method: "POST",
            headers: {
                "Content-Type": "application/json",
            },
            body: JSON.stringify({
                file: capturedBase64,
                fileName: date.getTime().toString() +
".jpg",
                id: date.getTime(),
                result: res,

```

```

        timestamp: date.toLocaleString('id-ID', {
timeZone: 'Asia/Jakarta' })),
    })),
  })
  .then((res) => {
    console.log("Successfully send data to Google
Drive")
  })
  .catch((error) => {
    console.error("Error writing data:", error);
  });
};
getCapture.onclick = function (event) {
  fetch("/jpg")
    .then((response) => response.blob())
    .then((blob) => {
      let reader = new FileReader();
      reader.readAsDataURL(blob);
      reader.onloadend = function () {
        let base64String = reader.result;
        capturedBase64 =
base64String.split("base64,")[1]
      }
      var url = URL.createObjectURL(blob);
      ShowCapture.src = url;
      TextRecognitionElem(ShowCapture);
    });
}
// getStill.onclick = function (event) {
//   clearInterval(myTimer);
//   myTimer =
setInterval(function(){error_handle();},5000);
//   setup();
// };
// getResult.onclick = function (event) {
//   TextRecognitionElem(ShowCapture);
// };
function error_handle() {
  restartCount++;
  clearInterval(myTimer);
  if (restartCount <= 2) {
    result.innerHTML =
      "Get still error. <br>Restart ESP32-CAM " +
      restartCount +
      " times.";
    myTimer = setInterval(function () {
      getStill.click();

```

```

    }, 10000);
  } else
    result.innerHTML =
      "Get still error. <br>Please close the page
and check ESP32-CAM.";
  }
function setup() {
  var host =
    "ws://" + location.origin.replace("http://", "")
+ ":81";

  console.log("host", host);
  var socket = new WebSocket(host);
  socket.binaryType = "arraybuffer";
  if (socket) {
    websocketConnected = true;
    socket.onopen = function () {};
    socket.onmessage = function (msg) {
      var bytes = new Uint8Array(msg.data);
      var binary = "";
      var len = bytes.byteLength;
      for (var i = 0; i < len; i++) {
        binary += String.fromCharCode(bytes[i]);
      }
      ShowImage.src =
        "data:image/jpeg;base64," +
window.btoa(binary);
    };
    socket.onclose = function () {};
  }
}
function getFeedback(target) {
  var data = $.ajax({
    type: "get",
    dataType: "text",
    url: target,
    success: function (response) {
      result.innerHTML = response;
    },
    error: function (exception) {
      result.innerHTML = "fail";
    },
  });
}
function TextRecognition() {
  result.innerHTML = "Recognize...";
  Tesseract.recognize(ShowCapture, "eng", {
    tesseract_char_whitelist: "0123456789",

```

```

    }).then(({ data: { text } }) => {
      result.innerHTML = text.replace(/\n/g, "<br>");
      text = result.innerHTML.replace(/<br>/g, "");
      if (text == "a" || text == "A") {
        $.ajax({
          url: document.location.origin +
"?analogwrite=4;10",
          async: false,
        });
        //$.ajax({url:
document.location.origin+'?digitalwrite=2;1', async: false});
      } else if (text == "b" || text == "B") {
        $.ajax({
          url: document.location.origin +
"?analogwrite=4;0",
          async: false,
        });
        //$.ajax({url:
document.location.origin+'?digitalwrite=2;0', async: false});
      }
    });
  }
  function TextRecognitionElem(elem) {
    result.innerHTML = "Recognize...";
    Tesseract.recognize(elem, "eng", {
      tessedit_char_whitelist: "0123456789",
    }).then(({ data: { text } }) => {
      result.innerHTML = text.replace(/\n/g, "<br>");
      text = result.innerHTML.replace(/<br>/g, "");
      if (text == "a" || text == "A") {
        $.ajax({
          url: document.location.origin +
"?analogwrite=4;10",
          async: false,
        });
        //$.ajax({url:
document.location.origin+'?digitalwrite=2;1', async: false});
      } else if (text == "b" || text == "B") {
        $.ajax({
          url: document.location.origin +
"?analogwrite=4;0",
          async: false,
        });
        //$.ajax({url:
document.location.origin+'?digitalwrite=2;0', async: false});
      }
    });
  }
}

```

```

}
function intervalFunction() {
  console.log("Interval triggered at: " + new Date());
  fetch("/jpg")
    .then((response) => response.blob())
    .then((blob) => {
      var url = URL.createObjectURL(blob);
      ShowCapture.src = url;
      TextRecognitionElem(ShowCapture);
      if (intervalCount >= 5) {
        stopInterval();
      }
      intervalCount++;
    });
}
function startInterval() {
  intervalId = setInterval(intervalFunction, 10 *
1000);
}
function stopInterval() {
  clearInterval(intervalId);
}
function handleIntervalControlChange() {
  const selectElement =
    document.getElementById("intervalControl");
  const selectedOption = selectElement.value;
  const intervalButton =
    document.getElementById("interval-button");
  if (!websocketConnected) {
    setup();
  }
  if (selectedOption === "start") {
    intervalButton.hidden = false;
    getCapture.hidden = true;
    // saveButton.hidden = true;
    sendToSheetButton.hidden = true;
    // getResult.hidden = true;
    // resultAuto.hidden = false;
    // intervalId = setInterval(intervalFunction, 5
* 60 * 1000);
  } else if (selectedOption === "stop") {
    intervalButton.hidden = true;
    getCapture.hidden = false;
    // saveButton.hidden = false;
    sendToSheetButton.hidden = false;
    // getResult.hidden = false;
    // resultAuto.hidden = true;

```

```

        }
    }
    </script>
</body>
</html>
)rawliteral";
void liveCam(uint8_t num){
    cam.run();
    websocket.sendBIN(num, cam.getfb(), cam.getSize());
}
void websocketEvent(uint8_t num, WStype_t type, uint8_t * payload,
size_t length) {
    switch(type) {
        case WStype_DISCONNECTED:
            Serial.printf("[%u] Disconnected!\n", num);
            break;
        case WStype_CONNECTED:
            cam_num = num;
            connected = true;
            break;
        case WStype_TEXT:
        case WStype_BIN:
        case WStype_ERROR:
        case WStype_FRAGMENT_TEXT_START:
        case WStype_FRAGMENT_BIN_START:
        case WStype_FRAGMENT:
        case WStype_FRAGMENT_FIN:
            break;
    }
}
const char JHEADER[] = "HTTP/1.1 200 OK\r\n" \
    "Content-disposition: inline;
filename=capture.jpg\r\n" \
    "Content-type: image/jpeg\r\n\r\n";
const int jhdLen = strlen(JHEADER);
void handle_jpg(void)
{
    WiFiClient client = server.client();
    if (!client.connected()) return;
    cam.run();
    client.write(JHEADER, jhdLen);
    client.write((char *)cam.getfb(), cam.getSize());
}
void handle_index(void)
{
    WiFiClient client = server.client();
    if (!client.connected()) return;

```

```

client.println("HTTP/1.1 200 OK");
client.println("Access-Control-Allow-Headers: Origin, X-Requested-
With, Content-Type, Accept");
client.println("Access-Control-Allow-Methods:
GET,POST,PUT,DELETE,OPTIONS");
client.println("Content-Type: text/html; charset=utf-8");
client.println("Access-Control-Allow-Origin: *");
client.println("Connection: close");
client.println();
String Data = String((const char *)INDEX_HTML);
int Index;
for (Index = 0; Index < Data.length(); Index = Index+1000) {
    client.print(Data.substring(Index, Index+1000));
}
client.println();
}
void setup()
{
WRITE_PERI_REG(RTC_CNTL_BROWN_OUT_REG, 0);
Serial.begin(115200);
camera_config_t config;
config.ledc_channel = LEDC_CHANNEL_0;
config.ledc_timer = LEDC_TIMER_0;
config.pin_d0 = Y2_GPIO_NUM;
config.pin_d1 = Y3_GPIO_NUM;
config.pin_d2 = Y4_GPIO_NUM;
config.pin_d3 = Y5_GPIO_NUM;
config.pin_d4 = Y6_GPIO_NUM;
config.pin_d5 = Y7_GPIO_NUM;
config.pin_d6 = Y8_GPIO_NUM;
config.pin_d7 = Y9_GPIO_NUM;
config.pin_xclk = XCLK_GPIO_NUM;
config.pin_pclk = PCLK_GPIO_NUM;
config.pin_vsync = VSYNC_GPIO_NUM;
config.pin_href = HREF_GPIO_NUM;
config.pin_sscb_sda = SIOD_GPIO_NUM;
config.pin_sscb_scl = SIOC_GPIO_NUM;
config.pin_pwdn = PWDN_GPIO_NUM;
config.pin_reset = RESET_GPIO_NUM;
config.xclk_freq_hz = 20000000;
config.frame_size = FRAMESIZE_UXGA;
config.pixel_format = PIXFORMAT_JPEG; // for streaming
config.grab_mode = CAMERA_GRAB_WHEN_EMPTY;
config.fb_location = CAMERA_FB_IN_PSRAM;
config.jpeg_quality = 12;
config.fb_count = 1;
if(psramFound()){

```

```

        config.jpeg_quality = 10;
        config.fb_count = 2;
        config.grab_mode = CAMERA_GRAB_LATEST;
    } else {
        config.frame_size = FRAMESIZE_SVGA;
        config.fb_location = CAMERA_FB_IN_DRAM;
    }
#endif
pinMode(13, INPUT_PULLUP);
pinMode(14, INPUT_PULLUP);
#endif
cam.init(config);
sensor_t * s = esp_camera_sensor_get();
//s->set_hmirror(s, 1);
if(config.pixel_format == PIXFORMAT_JPEG){
    s->set_framesize(s, FRAMESIZE_QVGA);
//UXGA|SXGA|XGA|SVGA|VGA|CIF|QVGA|HQVGA|QQVGA
}
IPAddress ip;
WiFi.mode(WIFI_STA);
WiFi.begin(SSID1, PWD1);
while (WiFi.status() != WL_CONNECTED)
{
    delay(500);
    Serial.print(F("."));
}
ip = WiFi.localIP();
Serial.println(F("WiFi connected"));
Serial.println("");
Serial.println(ip);
Serial.print("Stream Link: http://");
Serial.print(ip);
server.on("/", HTTP_GET, handle_index);
server.on("/jpg", HTTP_GET, handle_jpg);
server.begin();
WebSocket.begin();
WebSocket.onEvent(WebSocketEvent);
}
void loop()
{
    server.handleClient();
    WebSocket.loop();
    if(connected == true){
        liveCam(cam_num);
    }
}
}

```



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