Lab 7 Report - Ryan King

Lab 7 Part 1

No external resources for part 1, just the lecture code

Lab 7 Part 2

For part 2 I used ChatGPT to ask how to convert from the http_request.c to a program that could handle POST.

https://chatgpt.com/share/5564d6c4-5976-4203-806a-59a69394e0ac

"How would I edit this code in the esp-idf framework for the esp32c3 to make a POST request instead of GET" (plus http_request.c code)

```
if(connect(s, res->ai_addr, res->ai_addrlen) != 0) {
                                                                                                   vTaskDelay(4000 / portTICK_PERIOD_MS);
static const char *REQUEST = "POST " WEB_PATH " HTTP/1.0\r\n"
   "Host: "WEB_SERVER":"WEB_PORT"\r\n"
                                                                                                freeaddrinfo(res):
                                                                                                if (write(s, REQUEST, strlen(REQUEST)) < 0) {</pre>
   "Content-Length: "POST_DATA_LENGTH"\r\n"
                                                                                                    close(s);
                                                                                                    vTaskDelay(4000 / portTICK_PERIOD_MS);
static void http_post_task(void *pvParameters)
                                                                                                receiving_timeout.tv_sec = 5;
                                                                                                receiving_timeout.tv_usec = 0;
                                                                                                if (setsockopt(s, SOL_SOCKET, SO_RCVTIMEO, &receiving_timeout,
   struct in_addr *addr;
                                                                                                       sizeof(receiving_timeout)) < 0) {</pre>
   char recv buf[64];
                                                                                                    vTaskDelay(4000 / portTICK PERIOD MS);
       int err = getaddrinfo(WEB_SERVER, WEB_PORT, &hints, &res);
           vTaskDelay(1000 / portTICK_PERIOD_MS);
       addr = &((struct sockaddr_in *)res->ai_addr)->sin_addr;
       ESP LOGI(TAG, "DNS lookup succeeded. IP=%s", inet ntoa(*addr));
                                                                                                ESP_LOGI(TAG, "... done reading from socket. Last read return=%d errno=%d.", r
       s = socket(res->ai_family, res->ai_socktype, 0);
                                                                                                    vTaskDelay(1000 / portTICK_PERIOD_MS);
           freeaddrinfo(res);
           vTaskDelay(1000 / portTICK_rcRIOD_MS);
```

Also questioned it about 400 and 415 status error codes until I found the issue.

Lab 7 Part 3

Just combining previous code