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POST data to HTTP server

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muneeswaran
 Friday, August 31, 2018 3:16 AM (permalink)


POST data to HTTP server

Hello everyone,

I'm using pic18f4520 and esp8266 for send my data to the HTTP server.esp is connected to server correctly but when I tried to send data it gives "Error:400,The request verb is invalid" as reply.

So I tried with POSTMAN application that gives right response in "Json" mode but not in "text/plain" mode.So I think I should convert my data to json format but not confirmed.I have given below my code

```

        __delay_ms(50);
    }
    uart_txn(&mux[0]);
    for(int i = 0; i < 15; i++)
    {
        __delay_ms(50);
    }
    uart_txn(&cwjap[0]); //cjwajp eeprom_read
    for(int i = 0; i < 50; i++)
    {
        __delay_ms(200);
    }
    uart_txn(&cipstart[0]);

```

kindly refer this code and give suggestions. Thanks in advance.

 Regards,
 Muneeswaran.

[25 Replies](#) • [Related Threads](#)

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pccbc
 Re: POST data to HTTP server • Friday, August 31, 2018 8:23 AM (permalink)


text1 does not look like a correctly formatted HTTP POST request to me. I would expect something more like...

```

POST /postData HTTP/1.1
Host: myapi.com
Accept: application/json
Content-Type: application/json
Content-Length: 40

{
"DeviceId": "bacc9bbff5eda441"
}

```

 Total Posts: 1703
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 Joined: 3/27/2014
 Location: 0
 Status: offline

But I admit I have no experience of that WiFi module, so there may be some nuances of the API I have missed.

muneeswaran
 Re: POST data to HTTP server • Friday, August 31, 2018 8:41 AM (permalink)


Ok but I need to do it with esp8266..if I missed something kindly let me know.Because I'm very new to this platform. Also I don't know about the Api formation.

Thanks in advance



New Member



Total Posts : 9
Reward points : 0
Joined: 12/18/2017
Location: 0
Status: offline

#3

pcbbc



Super Member



Total Posts : 1703
Reward points : 0
Joined: 3/27/2014
Location: 0
Status: offline

Re: POST data to HTTP server • Friday, August 31, 2018 10:33 AM (permalink)



muneeswaran

Ok but I need to do it with esp8266..if I missed something kindly let me know.Because I'm very new to this platform. Also I don't know about the Api formation.

Thanks in advance



+1 (1)



I've never used the ESP8266, and so cannot comment. I have done similar work with a Digi Xbee WiFi module, and that would require a correctly formatted HTTP request as I supplied in my previous reply.

To me it looks like you are just pumping an incorrectly formatted HTTP request from text1 straight to the UART immediately after the send1 AT+CIPSEND=68 command.

Q1. How does the ESP8266 know how much data is to be sent, is that the hardcoded 68 in the CIPSEND command?

Q2. Are you sure your HTTP POST request data in text1 is correct:

```
POST /PostData{  
"DeviceId":"bacc9bbff5eda441"  
}
```

It should be more like in my previous post I think? It would certainly explain why you might be getting a "Error:400,The request verb is invalid". The first line of a HTTP request is always <verb> <url> <http version>, as in "POST /PostData HTTP/1.1" and not "POST /PostData)". Or at least as far as I am aware.

Please point me at the API details for the ESP8266 AT commands. You must have this as otherwise how did you deduce what AT commands to send?

#4

pcbbc



Super Member



Total Posts : 1703
Reward points : 0
Joined: 3/27/2014
Location: 0
Status: offline

Re: POST data to HTTP server • Friday, August 31, 2018 10:44 AM (permalink)

Answering my own questions... [AT+CIPSEND](#)



+2 (2)



Q1: Yes. So 68 is not correct.

POST /PostData(\r\n"DeviceId":"bacc9bbff5eda441"\r\n)\r\n is only 46 bytes, so send1 should be AT+CIPSEND=46\r\n" with your supplied text1 value.

Q2: text1 needs to be a correctly formatted HTTP request, similar to what I gave in my first reply. That also means that the length for the CIPSEND command needs adjusting accordingly. It would be better calculating the length in the code from the strlen(text1), and also the Content-Length value while you are at it, as hard-coding such values is just asking for trouble.

#5

muneeswaran



New Member



Total Posts : 9
Reward points : 0
Joined: 12/18/2017
Location: 0
Status: offline

Re: POST data to HTTP server • Friday, August 31, 2018 11:58 AM (permalink)

Yes you are right sir. I know about the CIPSEND, I have tried different formats that's why that much value I gave, and I wrongly post the inaccurate value..your comment will be very helpful to me I will check on monday and let you know..thank you so much



0



Regards,

Muneeswaran.

#6

muneeswaran



New Member



Total Posts : 9
Reward points : 0

Re: POST data to HTTP server • Monday, September 03, 2018 3:10 AM (permalink)



The first line of a HTTP request is always , as in "POST /PostData HTTP/1.1"

I have tried this but I'm getting same error.I have attached my output window.my array is like this

```
unsigned char text1[]="POST /PostSmartSenseData HTTP/1.1{\r\n"DeviceId":"bacc9bbff5eda441"\r\n}\r\n";
```



0



and my data size is 70 bytes. kindly go through this and give any suggestions.Thanks in advance.

Regards,

Muneeswaran.

Joined: 12/18/2017

Location: 0

Status: offline

post edited by muneeswaran - Monday, September 03, 2018 6:58 AM

Attached Image(s)



#7

pcbbc



Super Member



Total Posts : 1703

Reward points : 0

Joined: 3/27/2014

Location: 0

Status: offline

Re: POST data to HTTP server • Monday, September 03, 2018 10:11 AM (permalink)

And the rest of the errors in your text1 request? I gave what I believed to be a correctly formatted HTTP request in [my very first reply](#).



0

What makes you think that just slamming the JSON text straight on the end of the HTTP header is a valid request syntax? I'm as near 100% certain as I can be that it is not!

If you are in doubt, capture the HTTP request from a working system (you said you had this working in POSTMAN), for example using Wireshark, then replicate that in your PIC application.

#8

muneeswaran



New Member



Total Posts : 9

Reward points : 0

Joined: 12/18/2017

Location: 0

Status: offline

Re: POST data to HTTP server • Monday, September 03, 2018 10:29 AM (permalink)

What makes you think that just slamming the JSON text straight on the end of the HTTP header is a valid request syntax?



0

I don't know the format of the url for json. if you need to send a json data via xbee then how the url format would be? kindly share the details, from that I can try. Thanks in advance.

#9

pcbbc



Super Member



Total Posts : 1703

Reward points : 0

Joined: 3/27/2014

Location: 0

Status: offline

Re: POST data to HTTP server • Monday, September 03, 2018 11:05 AM (permalink)

I don't know the format of the url for json. if you need to send a json data via xbee then how the url format would be? kindly share the details, from that I can try. Thanks in advance.



0

My goodness, how many times do I have to say? I think I have mentioned it in just about every post now...sad:
:(See [my very first reply](#) for a more correctly formatted HTTP request.

#10

NorthGuy



Super Member



Total Posts : 6656

Reward points : 0

Joined: 2/23/2014

Location: Northern Canada

Status: online

Re: POST data to HTTP server • Monday, September 03, 2018 11:38 AM (permalink)

unsigned char text1[]="POST /PostSmartSenseData HTTP/1.1{\r\n\"DeviceId\":\"bacc9bbff5eda441\"\r\n\r\n";

muneeswaran



0

You need "\r\n" after "1.1". Then, after this you need some headers, such as "Host: your.host.com\r\n", then, after the headers, you need another "\r\n" (which means you'll have "\r\n\r\n" right before "(").

The URL you're posting too is:

<http://your.host.com/PostSmartSenseData>

Is that what you want?

Northern Software Inc

#11

muneeswaran

Re: POST data to HTTP server • Tuesday, September 04, 2018 10:23 AM (permalink)

Ok..I changed my array based on your guidance

New Member

Total Posts: 9
Reward points: 0
Joined: 12/18/2017
Location: 0
Status: offline

So now its my array and content length is the count after ". Then I tried Host without "[http://](#)" too but every time I'm getting

The request has an invalid header name

as reply.I tried full day but I can't clear it If you find any mistakes in it kindly let me know. Thanks in advance.

#12

pcbbc



Super Member

★★★★★

Total Posts: 1703
Reward points: 0
Joined: 3/27/2014
Location: 0
Status: offline

Re: POST data to HTTP server • Tuesday, September 04, 2018 11:27 AM (permalink)

You need an extra blank line (\r\n) to separate the headers (Host, Accept, etc) from the payload (your JSON data). Also the host name is just that, not including the protocol (http, https etc) or any other part of the URL:

```
Host: smartfabricapi.delfers.com
Accept: application/json
Content-Length: 224
Content-Type: application/json

{
"DeviceId": "DLF-HT100",
"DataSource": "sample string 7",
"Value": 22.00,
"TimeStamp": "2018-08-16T17:08:39.536224+08:00",
"SensorId": 8,
"Token": "12345",
"EncryptedSecretKeyToken": "8cfa2282b17de0a598c010f5f0109e7d"
}
```

Your 224 bytes for Content-Length looks to be correct.

#13

pcbbc



Super Member

★★★★★

Total Posts: 1703
Reward points: 0
Joined: 3/27/2014
Location: 0
Status: offline

Re: POST data to HTTP server • Tuesday, September 04, 2018 11:30 AM (permalink)

Also, I thought the host you were connecting to was myapi.com? But perhaps you have changed it?

```
unsigned char cipstart[]={"AT+CIPSTART=\\"TCP\\",\\"myapi.com\\",80\r\n";
```

#14

NorthGuy



Super Member

★★★★★

Total Posts: 6656
Reward points: 0
Joined: 2/23/2014
Location: Northern Canada
Status: online

Re: POST data to HTTP server • Tuesday, September 04, 2018 11:58 AM (permalink)

Ok..I changed my array based on your guidance

muneeswaran

Re: POST data to HTTP server • Tuesday, September 04, 2018 11:58 AM (permalink)

So now its my array and content length is the count after ". Then I tried Host without "[http://](#)" too but every time I'm getting

The request has an invalid header name

as reply.I tried full day but I can't clear it If you find any mistakes in it kindly let me know. Thanks in advance.

I'll repeat: ... after the headers, you need another "\r\n" (which means you'll have "\r\n\r\n" right before "{"). That's the reason you're getting the error.

Also, there must be no "http" in the "Host" header:

```
Host: domain.name.here
```

[Northern Software Inc](#)

#15

pcbdc



Super Member



Total Posts : 1703

Reward points : 0

Joined: 3/27/2014

Location: 0

Status: [offline](#)

[Re: POST data to HTTP server](#) • Tuesday, September 04, 2018 12:18 AM (permalink)

I'll repeat: ...

NorthGuy



0

Good luck. It seems this is all too often necessary... :roll:

#16

muneeswaran



New Member



[Re: POST data to HTTP server](#) • Wednesday, September 05, 2018 1:51 AM (permalink)

Thank you so much guys I have posted the data successfully... Once again thank you



0

Regards,
Muneeswaran.

#17

Total Posts : 9

Reward points : 0

Joined: 12/18/2017

Location: 0

Status: [offline](#)

HRVitruvian



New Member



[Re: POST data to HTTP server](#) • Thursday, February 07, 2019 1:14 PM (permalink)

Hello Muneeswaran,

I am working with esp32 interfaced with PIC32. I am stuck in the similar situation like yours, could you send me the text array header that worked for you in posting data with json application. I think I am making a mistake in defining the header. Thank you in advance.



0

Regards,
HRVitruvian

#18

Total Posts : 3

Reward points : 0

Joined: 1/25/2018

Location: 0

Status: [offline](#)

qhb



Superb Member



[Re: POST data to HTTP server](#) • Thursday, February 07, 2019 7:23 PM (permalink)

Why not post what you tried, so people can suggest what may be wrong?



-1 (1)

Nearly there...

#19

Total Posts : 9999

Reward points : 0

Joined: 6/5/2016

Location: One step ahead...

Status: [offline](#)



New Member



[Re: POST data to HTTP server](#) • Thursday, February 07, 2019 8:54 PM (permalink)

I am working with esp32 interfaced with PIC32.

HRVitruvian



0

Have a look here, Similar devices and the link should help you with other things to check
<https://circuitdigest.com...ontroller-with-esp8266>

#20



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