

I would really be grateful if you start to build the Weather Clock, that you go to Github and say hi.

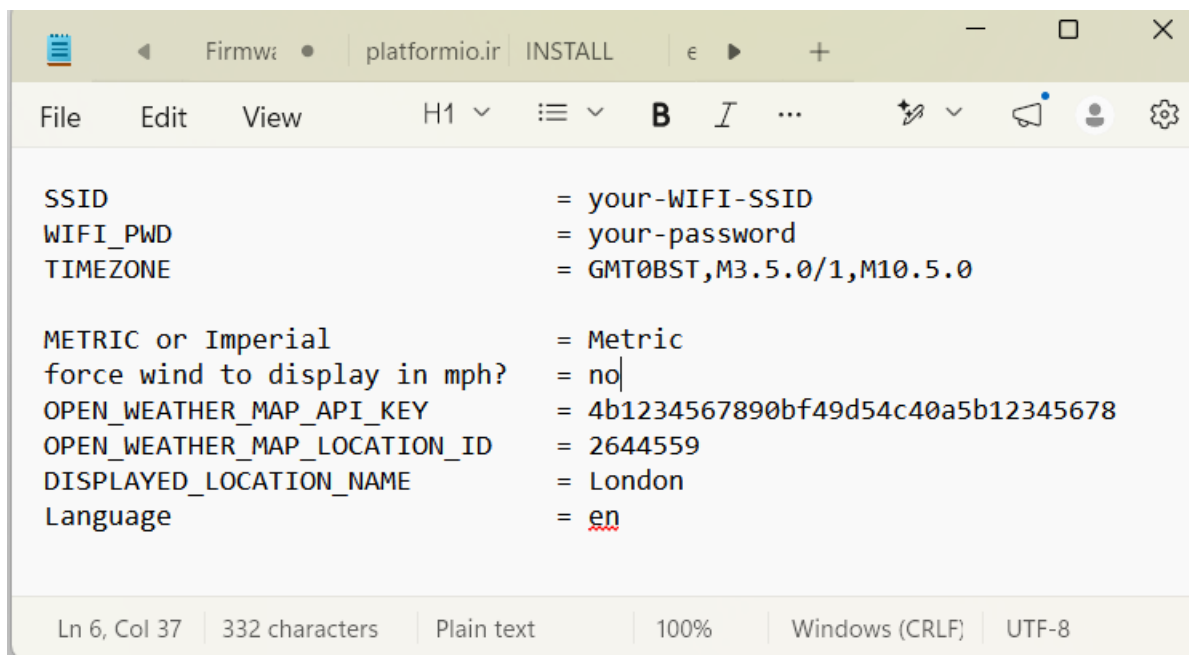
[billbill100/Weather-Clock: Arduino ESP Weather Clock. Takes time and local weather data from the Internet and displays it on a 3.5" TFT screen \(github.com\)](https://github.com/billbill100/Weather-Clock)

<https://github.com/billbill100/Weather-Clock>

[email:- billbilgithub@gmail.com](mailto:billbilgithub@gmail.com)

ESP32 Weather Clock Collect User Data. V1.3 11/06/2026

The Weather Clock requires user data to be entered Some data you should know, your WIFI SSID and password, for example. The other data you will need to find out from the great Interweb. The document below describes how to find this information. Put all of the gathered information into a text file, using notepad or similar. The result should look something like: -

A screenshot of a text editor window. The title bar shows 'Firmw: platformio.ir INSTALL'. The menu bar includes 'File', 'Edit', 'View', and a dropdown 'H1'. The toolbar has icons for bold, italic, and other text formatting. The text area contains the following configuration data:

```
SSID = your-WIFI-SSID
WIFI_PWD = your-password
TIMEZONE = GMT0BST,M3.5.0/1,M10.5.0

METRIC or Imperial = Metric
force wind to display in mph? = no
OPEN_WEATHER_MAP_API_KEY = 4b1234567890bf49d54c40a5b12345678
OPEN_WEATHER_MAP_LOCATION_ID = 2644559
DISPLAYED_LOCATION_NAME = London
Language = en
```

The status bar at the bottom shows 'Ln 6, Col 37', '332 characters', 'Plain text', '100%', 'Windows (CRLF)', and 'UTF-8'.

SSID

WIFI_PWD

Your WIFI SSID and password are normally found on a little sticker or pull-out card on your router. These are the same details used to connect your phone, or other WIFI equipment to your home WIFI

Timezone

This is a clever string which contains not only your time-zone, but also daylight saving, how much it changes by and the exact day and month it changes. E.g GMT M3.5.0/1 1/M10.5.0 = Greenwich Man Time (London, Lisbon etc) month 3, week 5, day 0 (for clock change to summer time) = 1 hour time adjustment/ month 10, week 5 day 0 (for clock change to GMT).

All too complicated? Not so, just follow this link and find the pre-formatted time-zone
https://github.com/nayarsystems/posix_tz_db/blob/master/zones.csv

Metric or Imperial

Simply type *Metric* or *Imperial* (note capital first letter)

force wind to display mph?

A new parameter has been added 'force wind to display mph?' This is mainly for people in the UK, where most measurements are metric, but distance and speed is still expressed in mph.
answer *yes* or *no*

OPEN_WEATHER_MAP_API_KEY

A free openweather.org account is required. This will then generate an API_KEY

<https://openweathermap.org/price>

Follow the link to signup, selecting the first column for the free account. An API key should be emailed to you. If not, or you want to generate more API keys, log into your new account.

OPEN_WEATHER_MAP_LOCATION_ID

Find your nearest town or city by following the link and searching by name in the orange search box, then click 'Search'

<https://openweathermap.org/find?q=>

If successful, your city/town should appear in orange, with the latest weather. Click on the orange-coloured town/city which will now open a new window with detailed weather. Look at the top of the page at the URL, which will look something like "https://openweathermap.org/city/2643743" It is the number string at the end (2643743) which is your LOCATION_ID

DISPLAYED_LOCATION_NAME

Free text. Simply type the name of your Town/City

Language

This is the two digit country code that openweather.org recognises and will supply the download weather in this language. Find your two--digit code here.

<https://openweathermap.org/current#multi>

Note only the downloaded data from openweather.org will be in your chosen language The other details Moon, Sun etc displayed on the screen are coded into the firmware and default to English.

I have adapted the code to allow for other languages to be displayed (selected by the two-digit country code) currently the only supported languages are English (en), Czech (cz), French (fr), Portuguese (pt), German (de).

Other languages can be added at the user's request. Please contact me if you would like another language added. I will need your help to confirm the translation is correct :o)

The code-block which selects the language is shown below. The words in quotes "" require translation into your language, for example "SUN" in French becomes "DIM" and 'Sunday' becomes "Dimanche"

```
else if (OPEN_WEATHER_MAP_LANGUAGE == "en")
```

```
{
```

```
WEEKDAYS_ABBR[0] = {"SUN"};
WEEKDAYS_ABBR[1] = {"MON"};
WEEKDAYS_ABBR[2] = {"TUE"};
WEEKDAYS_ABBR[3] = {"WED"};
WEEKDAYS_ABBR[4] = {"THU"};
WEEKDAYS_ABBR[5] = {"FRI"};
WEEKDAYS_ABBR[6] = {"SAT"};
```

```
WEEKDAYS[0] = {"Sunday"};
WEEKDAYS[1] = {"Monday"};
WEEKDAYS[2] = {"Tuesday"};
WEEKDAYS[3] = {"Wednesday"};
WEEKDAYS[4] = {"Thursday"};
WEEKDAYS[5] = {"Friday"};
WEEKDAYS[6] = {"Saturday"};
```

```
SUN_MOON_LABEL[0] = {"Sun"};
SUN_MOON_LABEL[1] = {"Moon"};
```

```
MOON_PHASES[0] = {"New Moon"};
MOON_PHASES[1] = {"Waxing Crescent"};
MOON_PHASES[2] = {"First Quarter"};
MOON_PHASES[3] = {"Waxing Gibbous"};
MOON_PHASES[4] = {"Full Moon"};
MOON_PHASES[5] = {"Waning Gibbous"};
MOON_PHASES[6] = {"Third quarter"};
MOON_PHASES[7] = {"Waning Crescent"};
}
```