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1 esphome:
2   name: main_floor_hvacmon
3   platform: ESP8266
4   board: d1_mini
5
6 wifi:
7   ssid: "***your SSID here ***"
8   password: "*** your password here ***"
9
10  # Enable fallback hotspot (captive portal) in case wifi connection fails
11  ap:
12    ssid: "***select an SSID***"
13    password: "***select a password***"
14
15 captive_portal:
16
17 # Enable logging
18 logger:
19
20 # Enable Home Assistant API
21 api:
22
23 ota:
24 binary_sensor:
25 # Create four input binary sensors to detect the four HVAC signals:
26 #   Cooling, Heat, Heat_secondary, and Fan.
27 - platform: gpio
28   name: "Cooling_main"
29   pin:
30     number: D1
31     inverted: True
32     mode: INPUT_PULLUP
33 - platform: gpio
34   name: "Heating_main"
35   pin:
36     number: D7
37     inverted: True
38     mode: INPUT_PULLUP
39 - platform: gpio
40   name: "HeatingSecondary_main"
41   pin:
42     number: D6
43     inverted: True
44     mode: INPUT_PULLUP
```

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45 - platform: gpio
46   name: "Fan_main"
47   pin:
48     number: D5
49     inverted: True
50     mode: INPUT_PULLUP
51 #
52 # This allows Home Assistant to override and disable the cooling, which is
53 # useful if you want to implement algorithms to minimize peak electrical
54 # usage by temporarily turning off your A/C.
55 switch:
56 - platform: gpio
57   pin:
58     number: D4
59     inverted: True
60   id: cooling_defeat
61   name: "Cooling_defeat_main"
62   # This activates the 'enable_relay' signal, defined below
63   on_turn_on:
64     then:
65       - output.turn_on: enable_relay
66   on_turn_off:
67     then:
68       - output.turn_off: enable_relay
69 #
70 # This is a redundant signal for controlling the relay. The idea is that
71 # both
72 # 'cooling_defeat' and 'enable_relay' must be active in order to actually
73 # drive the relay. The idea is to minimize the chances of inadvertently
74 # disabling the A/C momentarily.
75 output:
76 - platform: gpio
77   pin:
78     number: D3
79     inverted: False
80   id: enable_relay
81 #
82 # This is the in-built status LED function which flashes during
83 # boot and signals errors, but is off during normal operation.
84 status_led:
85   pin:
86     number: D8
87     inverted: False
```