

OUTPUT

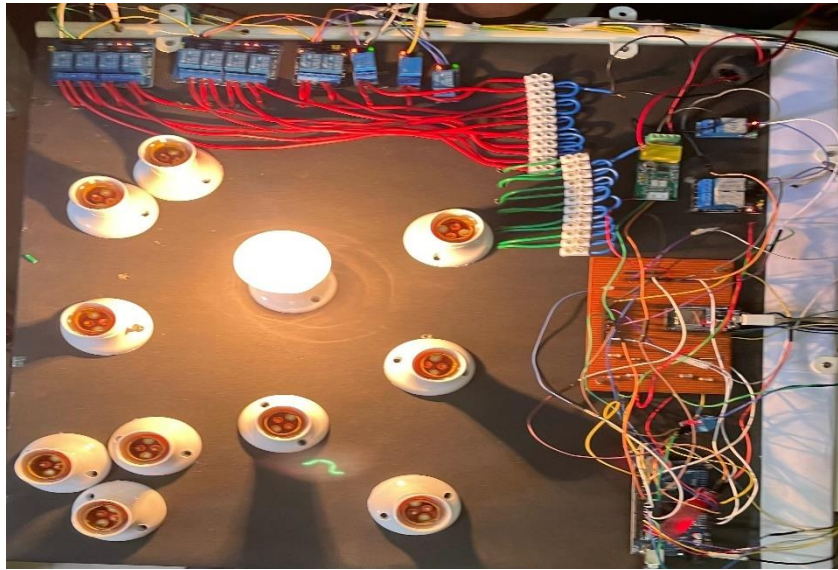


Figure 1- Complete Circuit Setup

| | |
|--|--|
| <pre>Time: 15:35 Solar Voltage: 14.96 Battery Voltage: 3.83 Water Level: 0 Temperature: 32.80 Humidity: 41.30 LDR Value: 531 Voltage: nan Current: 0.00 Power: 0.00 Energy: 0.00 Solar Relay: 1 Grid Relay: 0 Battery Charging: 1 Pump: 1 AC Room 1: 1 AC Room 2: 1 Light: 1</pre> | <pre>Time: 15:33 Solar Voltage: 10.02 Battery Voltage: 2.95 Water Level: 0 Temperature: 32.70 Humidity: 41.50 LDR Value: 530 Voltage: nan Current: 0.00 Power: 0.00 Energy: 0.00 Solar Relay: 0 Grid Relay: 1 Battery Charging: 1 Pump: 1 AC Room 1: 1 AC Room 2: 1 Light: 1</pre> |
|--|--|

Figure 2- (a) Solar Active, (b) Grid Active

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Time: 16:29
Solar Voltage: 3.67
Battery Voltage: 1.09
Water Level: 15
Temperature: 33.30
Humidity: 58.60
Light Intensity: 712
Voltage: 244.90
Current: 0.28
Power: 68.80
Energy: 0.12
Solar Relay: 0
Grid Relay: 1
Battery Charging: 1
Pump: 1
AC Room 1: 1
AC Room 2: 1
Light: 0
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✓ Parsed successfully!
Battery Voltage: 1.09V
Water Level: 15.00%
Temperature: 33.30°C
Voltage: 245.40V
Current: 0.28A
Energy: 0.12kWh
Grid Status: 1
Battery Charging: 1
Pump Status: 1
AC Control: 1
Light Status: 0

--- Received Data ---
Raw Data: 1.07,14,33.30,245.90,0.28,0.12,1,1,1,1,0

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Figure 3- (a) Arduino Serial monitor, (b) ESP Serial monitor

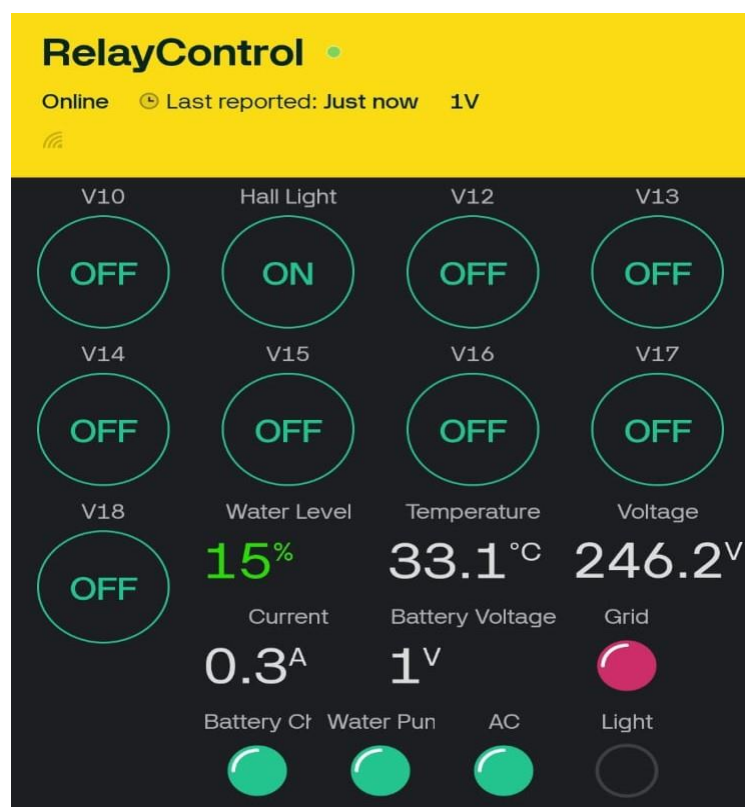


Figure 4- Blynk Interface