

FUNCTIONAL TESTING

Unit Test Cases	Test Data	Expected Result
1 Check if device can be turned on by pushing the 'on' button.	Device	Device turns on.
2 Check if device can be turned off by pushing the 'off' button.	Device	Device turns off.
3 Check if weather sensor can be turned off.	Device, sensor	Sensor turns off.
4 Check if weather sensor can be turned on.	Device, sensor	Sensor turns on.
5 Check if device displays weather data information.	Device	Displays weather data on device.
6 Check if device displays forecast.	Device, Tower forecast	Displays weather forecast.

NON-FUNCTIONAL TESTING

Unit Test Cases	Test Data	Expected Result
1 Check sensor measurement devices are functioning.	Sensor hardware	Retrieves weather measurements.
2 Check to see if sensor is functioning.	Sensor communication.	Reports the sensors status.
3 Check the archiving of weather data.	Sensor communication, Tower Communication, Tower archive	Stores the weather measurements.
4 Check to see if network signals are functioning.	Sensor communication, Tower Communication, Display communication	Passes the weather data and sensor data to the calling components.

DISPLAY COMMUNICATION

1 Call giveWeather(WeatherData)	Communicates weather data to calling component.
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TOWER COMMUNICATION

1 Call getStatus()

Retrieves sensor status.

2 Call giveWeather()

Communicates weather data to calling component.

TOWER ARCHIVE

1 Call giveWeather()

Communicates weather data to calling component.

SENSOR COMMUNICATION

1 Call getStatus()

Retrieves sensor status.

2 Call getWeather()

Retireves weather data.

SENSOR DATA ANALYSIS

1 Call getWeather()

Retireves weather data.