***Description of Data Generated***

The main data generated by the system includes:

***Turbidity Level:*** A numeric value that represents the clarity of the water (higher values indicate murkier water).

Measurement: Analog reading from the turbidity sensor.

***Temperature:*** A floating-point value that represents the water's temperature in °C.

Measurement: DS18B20 sensor provides temperature readings.

***Safety Status:*** A message that indicates whether the water is "Safe to Drink" or "Unsafe to Drink" based on turbidity and temperature readings.

***Datasets or APIs Used***

***Blynk API:*** For real-time data transfer between the sensors and the app. It helps visualize the sensor values and allows for status updates.

***Blynk Cloud:*** Data will be stored and processed in the cloud, ensuring it's always accessible from the Blynk app.

***Arduino Data Processing:*** Local data processing on the Arduino involves reading sensor values and sending them to Blynk for further analysis.