**PROBLEM SOLVING :**

**SYSTEM ARCHITECTURE:**

Cloud

Turbidity

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Water Level

Odour

Smart Phone

Arduino UNO Wi-Fi Module

Temperature

**DECISION TREE (ALGORITHM):**

Decision Trees are considered for representing classifiers. A decision tree is a classifier expressed as a recursive partition of the instance space. The decision tree consists of set nodes that form a rooted tree, it is a directed tree with a node called root that has no incoming edges. All other nodes have only one incoming edge.

A node with outgoing edges is called an internal or test node. Decision tree generates the rule for the classification of the generated data set. The decision tree generally represents the flow chart like a tree structure that classifies instances by sorting them based on the feature (attribute) value [12].

**ALGORITHM:**

1. Take data as a input
2. If the dataset has more features and condition then apply it on data parameters.
3. The data generated from the sensors are evaluated depending upon WHO values.
4. Classify and splitting the data.
5. Analysis of data.
6. Find the accuracy of the model
7. Compare the value store on cloud.