**DATA FLOW DIAGRAM**

1. The DFD is also called as bubble chart. It is a simple graphical formalism that can be used to represent a system in terms of input data to the system, various processing carried out on this data, and the output data is generated by this system.
2. The data flow diagram (DFD) is one of the most important modeling tools. It is used to model the system components. These components are the system process, the data used by the process, an external entity that interacts with the system and the information flows in the system.
3. DFD shows how the information moves through the system and how it is modified by a series of transformations. It is a graphical technique that depicts information flow and the transformations that are applied as data moves from input to output.
4. DFD is also known as bubble chart. A DFD may be used to represent a system at any level of abstraction. DFD may be partitioned into levels that represent increasing information flow and functional detail.

**PARAMETER MONITORING**

**FEATURE SELECTION**

**SOIL TEXTURE ANALYSIS**

**PARAMETER ANALYSIS**

**USER**

**DATASET COLLECTION**

**PARAMETER CLASSIFICATION**

**SVM MODEL**

**PREDICTION WITH CLASSIFICATION MODEL**

**LOGIN**

**DATABASE**

**MVR MODEL**

**PLOT GRAPHICAL FOR ANALYSIS**

**USE CASE DIAGRAM:**

A use case diagram in the Unified Modeling Language (UML) is a type of behavioral diagram defined by and created from a Use-case analysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases), and any dependencies between those use cases. The main purpose of a use case diagram is to show what system functions are performed for which actor. Roles of the actors in the system can be depicted.

**user**