# **CHAPTER 3 SYSTEM MODELING AND DESIGN**

In order to achieve the objectives of our project, the system architecture has been designed in multiple stages. This chapter focuses on Conceptual design, Block diagram, Interface Design of the whole system. The sample of the system has been described here before the final implementation.

## 3.1 Conceptual Design

The conceptual design outlines the sequential flow of different stages of the whole system. This section covers the details of how the whole process have been designed in steps.

### 3.1.1 Dataset Collection

**3.1.2 Block Diagram**

First of all, we have designed a block diagram using blocks and lines or errors to give a visual representation of the whole system. In this way, it will be more convenient to understand the structure of the overall system.

Data Preprocessing

Data Collection

All Features

Output

Train Model

ML Model

Train Data

Feature Extraction

## 

Train Data

Output

F1

FN

F2

……..

Important Features

Train Data

Output

F2

FN

F1

……..

F6

F5

F4

F3

F2

F1

Dependent Feature 2

(Perceived Value)

Dependent Feature 1

(Satisfaction)

Output

## 3.2 Interface Design

## 3.3 Design of Experimental Setup

## 3.4 Summary