

## CHAPTER 3

### REQUIREMENTS SPECIFICATION

#### 3.1 Functional Requirements

- **Input key**  
The system allows the user to input a key from a pre-defined input set.
- **Generate Signal**  
An analog signal is generated by the system for the corresponding input.
- **Reconstruct signal**  
The system provides the user with the option to reconstruct the input signal.

#### 3.2 Non-Functional Requirements

The requirements that are not directly concerned with the specific functions delivered by the system are called Non-Functional Requirements. They relate to the emergent properties such as reliability, response time and store occupancy.

##### 3.2.1 Product Requirements

- **Reliability Requirements**  
The system is reliable only if it is able to reconstruct the signal accurately.
- **Usability Requirements**  
The system is easy to use for all the facilities provided by the system.

### 3.2.2 Organizational Requirements

- **Implementation Requirements**

#### **Hardware Requirements**

<b>Number</b>	<b>Description</b>
1	2 PCs with 15 GB (Minimum) hard-disk and 1GB RAM
2	Two systems with Pentium i3 2.5 GHz processor(recommended)
3	Two machines connected on the same network

#### **Software Requirements**

<b>Number</b>	<b>Description</b>
1	Windows 7/8/8.1
2	Matlab 2013a