**Functional and Non-Functional Requirements:**

**1) Functional Requirements:**

* Grouping books.
* Identify groups.
* Allocate books.
* Setting up ranges.
* Identifying ranges.
* Allowing user to enter/save new ranges.
* Entering ISBN code of book.
* Cannot delete or the facility to change descriptions.
* 2 input screens for book ranges/details.
* 2 input screens for territories market.
* 2 input screens for reports.

**2) Non-Functional Requirements:**

* Updating code ranges if the customer is satisfied.
* Warning notification on screen.
* Accessibility for blind people on screen (sound system).
* Advertisements notification for new books.
* Recommendations for service.
* Sales for rapidly Customers.

**Data Flow Diagram (DFD):**

1. **Level 0 DFD:**

Creating a system for “parrot books Ltd“

1. **Level 1 DFD:**

1) Product Department

Grouping book

**D1 Book trends DB**

2) Product Department

Identify groups

3) Product Department

Setting up

**D2 Book ranges DB**

4) Book 1st screen

Display all existing

**D2 Book ranges DB**

5) Book 2nd screen

Reading data from book/ market

Setting up territories market

Allocate new books

**D3 Book details DB**

6) Market 1st screen

**D4 Territories market DB**

7) Market 2nd screen

Display new customers

**D4 Territories market DB**

**D5 Sales order item DB**

8) Report

**D2 Book ranges DB**

**D3 Book details DB**

12) Report 2nd screen

11) Report 2nd screen

10) Report 1st screen

9) Report 1st screen

Requiring data

Printing data

Requiring data

Printing Reports

**D4 Territories market DB**

**D2 Book ranges DB**

**D3 Book details DB**

1. **Level 2 DFD:**

**D3 Book details DB**

**5) Allocate new books**

**D2 Book ranges DB**

5.2

5.4

5.3

5.1

Updating code ranges

Submitting book description

Searching for book ranges

Searching for ISBN code