**2.3.3 – Function Estimate**

1. Overview

This section describes the Function Point Estimate of all the major functionality of the project as obtained by the techniques listed in CIS375 Powerpoint 2 - Software Engineering Project Management, slides 31-37.

1. Estimation Breakdown
   1. Overall Functionality
      1. Inventory
         1. Store / Warehouse data updates (store info, item stock, etc)
         2. Item-level data updates
      2. Customer
         1. Point of sale purchasing/ordering
         2. Point of sale customer data updates
      3. Transactions
         1. Batch transactions (overnight)
         2. Online transactions (point of sale)
   2. Category Breakdown
      1. External Inputs (EI)
         1. Store / Warehouse screen - Average
         2. Inventory screen - Average
         3. Point of sale screen - High
         4. Customer account screen - Low
         5. Pharmacy prescription approval / fill screen - Low
         6. Batch file processing input - High
      2. External Outputs (EO)
         1. Store / Warehouse screen - Average
         2. Inventory screen - Average
         3. Point of sale screen - High
         4. Customer account screen - Low
         5. Pharmacy prescription approval / fill screen - Low
         6. Sales screen (reports) - Average
      3. External Inquiries (EQ)
         1. Sales screen (reports) - Average
      4. External Interface Files (EIF)
         1. Vendor order file - Average
      5. Internal Logical Files (ILF)
         1. Transaction table - High
         2. Customer table - Average
         3. Store table – Average
         4. Store/Warehouse Inventory table - Average
         5. Item table - Average
2. Estimation Tables

**Provided function point estimation constants:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Component:** | **Complexity:** | | |
| **Low** | **Average** | **High** |
| EI | 3 | 4 | 6 |
| EO | 4 | 5 | 7 |
| EQ | 3 | 5 | 6 |
| EIF | 5 | 7 | 10 |
| ILF | 7 | 10 | 15 |

|  |  |  |
| --- | --- | --- |
| Category | How Many | Complexity |
| EI |  | 3 |
| EI |  | 4 |
| EI |  | 6 |
| EO |  | 4 |
| EO |  |  |
| EO |  |  |
| EQ |  | 3 |
| EQ |  |  |
| EQ |  |  |
| EIF |  |  |
| ILF |  |  |
| ILF |  |  |
| ILF |  | 7 |