**2.2.2.1 Software Lines of Code Estimation**

1. Overview

This section describes the estimated count of software lines of code of all the major functionality of the project as obtained by an initial guess for each piece, based on previous experience with computer science curriculum projects up until this point.

1. Estimation Hierarchy (Based on 1.3)
   1. Pharmacy Management System – 5700 LOC
      1. Inventory – 1000 LOC
         1. Add/Update/Display inventory – 400 LOC
         2. Inventory replenishment – 600 LOC
      2. Sales/Customer – 2400 LOC
         1. POS (Point of Sale) – Cashier – 2200 LOC
            1. Refill & eligibility reminder – 400 LOC
            2. Coupled item check – 200 LOC
            3. Company-wide discount check – 100 LOC
            4. Individual Store / Individual Item Sales Report – 300 LOC
            5. Customer Coupon Processing – 100 LOC
            6. Add/Update/Display Customer – 500 LOC
            7. Print labels – 200 LOC
            8. Out-of-stock Handling – 400 LOC
         2. Pharmacist Prescription Approval – 200 LOC
      3. Batch Processing – 2300 LOC
         1. Company Sales Report – 300 LOC
         2. Add/Update Store – 500 LOC
         3. Store to Warehouse Inventory Request – 300 LOC
         4. Receive and Allocate Inventory (from Store/Vendor) – 500 LOC
         5. Vendor Reordering & Report – 300 LOC
         6. Mass Inventory Add/Update – 100 LOC
         7. Item Stock Threshold Processing (Increase/decrease reorder quantity) – 300 LOC