**2.3.2 Software Lines of Code Estimation**

1. Overview

This section describes the methodology used to calculate the estimated number of hours of the project using lines of code, based on a wider base of knowledge gained from class lectures and working on the SPMP up until this point.

1. Estimation
   1. Lines of Code per Function (based on 1.3)
      1. Pharmacy Management System
         1. Inventory
            1. Add/Update/Display inventory – 400 LOC
            2. Inventory replenishment – 600 LOC
         2. Sales/Customer
            1. POS (Point of Sale) – Cashier

Refill & eligibility reminder – 400 LOC

Coupled item check – 200 LOC

Company-wide discount check – 100 LOC

Individual Store / Individual Item Sales Report – 300 LOC

Customer Coupon Processing – 100 LOC

Add/Update/Display Customer – 500 LOC

Print labels – 200 LOC

Out-of-stock Handling – 400 LOC

* + - * 1. Pharmacist Prescription Approval – 200 LOC
      1. Batch Processing
         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
  1. Total Lines of Code: 5700
  2. Lines of Code per Hour
     1. Durwin Johnson - 53
     2. Erik Johnson - 63
     3. Alex Pope - 40
     4. Cindy Samano - 40
  3. Team Lines of Code per Hour: 196
  4. Final Estimate: 30 Hours (29.08 rounded up)