Pharmacy microservice

Functionality of the service:

* Store SKU details (can be a standard master list, active Status can be different based on the facility)
  + Code
  + Standard code
  + Name
  + Short name
  + Category
  + Schedule
  + Form
  + Strength
  + Strength unit
  + Generic
  + Composition
  + Size
  + Size unit
  + Partial dispensation allowed
  + Active/inactive (once active for a facility, will always be active. Will show out of stock if no Inventory available)
* batchDetails
  + SKU ID
  + Batch code (barcode)
  + Quantity
  + Cost
  + Price (should be managed in service master and not here since this will be different for different patient type and packages etc)
  + Expiry
  + Damage and Return (need to discuss)
* Inventory Management
  + SKU ID
  + SKU Code/barcode
  + Current Status (Available, dispensed, expired, returned, damaged)
  + Batch ID
* Inventory Status log
  + SKU Code
  + Status
  + Status date time
* Publish information to service master
* Add/Update Inventory batch/sku Status based on the input from
  + Billing
  + Expiry/damage front-end
  + SKU/Batch entry front-end
* Return details for search queries

**Comments from Dr. Balaji:** Inventory and log entities need to be linked to patient no? Or at least to prescription in some way.... So correlation between prescription and dispensing can be available....Also stock count means manual stock count entry to check variance with system stock count and record the difference both at user(facility) defined frequency and adhoc as the facility needs.

**Pharmacy solution will be divided into 6 microservices**

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| **Inventory**  The function of the microservice is solely to have master inventory list and manage SKU details and status (as defined above) | **Purchase** (adding to the inventory)  The function of the microservice is to manage vendors, pricing and purchase orders, goods received |
| **Billing** (updating inventory status)  The function of the microservice is to manage orders (either through Plan or direct entry), fetch/update inventory status and generate sales invoice  **Different microservices for opd, pharmacy (with option to store copy of prescription if there is any), IPD, lab+radiology**  *All billing should be linked to an encounter. In pharmacy, if a patient directly walks in with a prescription or wants to order directly, a new encounter will be created, a visit updated for pharmacy.* | **Plan** (create orders)  **Order (interface)** to create orders and publish to billing |
| **Service master**  To define buyer category, price, tax, discount | Payment modes/payment category (billing related standard master list of values). To be created if not in MDDS |