## User Roles

### Assistant Pharmacist

<table>
<thead>
<tr>
<th>Role</th>
<th>Description</th>
<th>Technical Description</th>
<th>Tables Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispense Medicine</td>
<td>Issues medicine to requesting unit (out-patient, doctor, etc.)</td>
<td>Subtracts the quantity of the issued products</td>
<td>Dynamic Table, Main Table, Activity Log Table</td>
</tr>
<tr>
<td>Receive Deliveries</td>
<td>Receives deliveries from the vendor</td>
<td>Increments the product quantity</td>
<td>Dynamic Table, Deliveries Table, Activity Log Table</td>
</tr>
<tr>
<td>Print Reports</td>
<td>Prints necessary reports</td>
<td>Gets data from the tables and converts it to a printable format</td>
<td>Main Table, Dynamic Table, Deliveries Table, Request Table, Activity Log Table</td>
</tr>
</tbody>
</table>

### Pharmacist (Admin)

<table>
<thead>
<tr>
<th>Role</th>
<th>Description</th>
<th>Technical Description</th>
<th>Types</th>
<th>Tables Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispense Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Receive Deliveries</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Print Reports</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personnel Activity Log</td>
<td>Allows the user to have an overview of activities/activities of other users</td>
<td>Displays every activity done by the other users</td>
<td>issue (dispense) medicine, receive deliveries, user login</td>
<td>Activity Log Table</td>
</tr>
<tr>
<td>Add New Medicine</td>
<td>Allows the user to add new products on existing product list</td>
<td>Adds new product entry to the main database tables</td>
<td></td>
<td>Main Table, Dynamic Table</td>
</tr>
<tr>
<td>Edit Medicine Info</td>
<td>Allows the user to edit information of existing medicine</td>
<td>Edits the table content of a</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Technical Description</td>
<td>Types</td>
<td>Tables Used</td>
<td></td>
</tr>
<tr>
<td>------------------------------</td>
<td>-----------------------</td>
<td>----------------------</td>
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</tr>
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<td>Dispense Medicine</td>
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<td>Receive Deliveries</td>
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<tr>
<td>Print Reports</td>
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<td></td>
</tr>
<tr>
<td>Personnel Activity Log</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Add New Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edit Medicine Info</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Admin Activity Log</td>
<td>Allows the user to have an overview of actions/activities of other admins</td>
<td>issue (dispense) medicine, receive deliveries, user login, approval of users, confirmation of deliveries</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Table Roles

## Drugs Table

**DESCRIPTION**
Table that contains all existing medicine

**ATTRIBUTES**
- Product ID
- generic name
- brand name
- dosage
- type/form
- *product description
- *image filename

**POPULATED VIA**
System startup/implementation – manual population
System is online – via Add New Product

**RELATED FORMS**
None

**RELATED FUNCTIONS**
- Search Function
- Notifications Function (Personnel and Admin activity logs)
- Receive Deliveries Function
- Dispense Product Function
- Edit Product Info Function

**AFFECTED TABLES**
None

## Supplies/Sutures Table

**DESCRIPTION**
Table that contains all existing supplies

**ATTRIBUTES**
- Product ID
- generic name
- brand name
- classification
- *product description
- *image filename

**POPULATED VIA**
System startup/implementation – manual population
System is online – via Add New Product

**RELATED FORMS**
None

**RELATED FUNCTIONS**
- Search Function
- Notifications Function (Personnel and Admin activity logs)
- Receive Deliveries Function
- Dispense Product Function
### Deliveries Table

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Table that contains all transaction records about deliveries received by the pharmacist; the concatenated version of the deliveries table and the deliveries product table</th>
</tr>
</thead>
</table>
| ATTRIBUTES  | • Delivery Key (concatenation of Delivery ID and Product ID)  
• Delivery ID (access key, timestamp)  
• Product ID  
• Lot/Batch number  
• Expiration Date  
• Number of Boxes  
• Number of small box per big box  
• Number of unit per small box  
• Quantity on hand  
• Vendor Price  
• Vendor name  
• Received by  
• Validated by |
| POPULATED VIA | System startup/implementation – not needed  
System is online – via Receive Deliveries |
| RELATED FORMS | • Delivery Entry Report  
• Summary of Delivery Entries |
| RELATED FUNCTIONS | • Search Function  
• Notifications Function (Personnel and Admin activity logs)  
• Receive Deliveries Function  
• Dispense Product Function  
• Edit Product Info Function |
| AFFECTED TABLES | • Dynamic Product Table (changing the total quantity using the quantity on hand) |
### Dynamic Product Table

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>A special table created to separate the values that changes to the values that don’t (values on the drug and supply tables)</th>
</tr>
</thead>
</table>
| ATTRIBUTES  | • Product ID  
• Selling Price  
• Total Quantity  
• Reorder Level |
| POPULATED VIA | System startup/implementation – not needed  
System is online –  
  o Selling Price – is changed by the administrator at the Edit Medicine/Supply Info button  
  o Total Quantity – is changed whenever there is a new delivery entry at Receive Deliveries  
  o Reorder Level – is automatically changed by the program and becomes accurate over time  
    = quantity – (average consumption * delivery time) |
| RELATED FORMS | None |
| RELATED FUNCTIONS | • Notification Function  
• Issue Medicine (Selling price) |
| AFFECTED TABLES | None |

### Dispensed Medicine Table

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Table that contains all transaction records about issuance of medicine made by the pharmacist</th>
</tr>
</thead>
</table>
| ATTRIBUTES  | • Dispense ID (concatenation of slip number and product ID)  
• Slip Number  
• Requesting Unit/Doctor  
• Received by  
• Product ID  
• Quantity  
• Bed Number  
• Timestamp |
| POPULATED VIA | System startup/implementation – not needed  
System is online – via Issue Medicine (Purchase button) |
| RELATED FORMS | • Entry of issuance report |
### Users Table

**DESCRIPTION**  
Table that contains the list of users who can access the system. This table is used for login verification, used to check whether the user accessing the system is a registered user. This is also used to detect who is currently doing any activities (reflected in the activity log).

**ATTRIBUTES**  
- **Username** (concatenation of slip number and product ID)
- Password
- First Name
- Middle Name
- Last Name
- User Type
- Sex
- Birth Month
- Birth Day
- Email address
- Contact number
- Approved

**POPULATED VIA**  
- System startup/implementation – not needed
- System is online – via Sign-up Button

**RELATED FORMS**  
None

**RELATED FUNCTIONS**  
- Log-in/ Sign up Function
- Notifications Function*

**AFFECTED TABLES**  
None

### Notifications Table

**DESCRIPTION**  
Table that contains the products that are either expiring or low on quantity

**ATTRIBUTES**  
- **Timestamp**
- Notification

**POPULATED VIA**  
- System startup/implementation – not needed
- System is online –
Access to delivery table
- scanning of every entry
- using the delivery number as access key
- to get the ff. attributes: product code, lot/batch #, expiry date
- processing done every log-in of a user

Access to dynamic table
- using the product number as access key
- to get the ff. attributes: total quantity
- processing done every submit of the issue medicine button

**Admin Activity Table**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Table that contains the logs done by the administrator. This is visible only to the super-administrator.</th>
</tr>
</thead>
</table>
| ATTRIBUTES  | • Timestamp  
• Activity |
| POPULATED VIA | System startup/implementation – not needed  
System is online –  
o For issue (dispose) medicine – populated whenever the administrator issues medicine  
o For receive deliveries – populated whenever the administrator receives deliveries  
o For user log-in – populated whenever the administrator logs in the system  
o For add new product – populated whenever the administrator adds a new product to the database  
o For edit medicine information – populated whenever the administrator edits values on the database |
| RELATED FORMS | None |
| RELATED FUNCTIONS | • Personnel Activity Log Function |
| AFFECTED TABLES | None |
Note: This table is for the super-administrator to oversee not just his/her assistant pharmacists but also the head pharmacist's activities. Similar to the notifications column, the activity column contains a formatted html string to be echoed to the webpage. The contents are processed internally.

➢ Activity Log Table

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Table that contains the logs done by the administrator. This is visible only to the super-administrator.</th>
</tr>
</thead>
</table>
| ATTRIBUTES  | • Timestamp  
               • Activity                                                                                      |
| POPULATED VIA | System startup/implementation – not needed  
                      System is online –  
                      o For issue (dispose) medicine – populated whenever the user issues medicine  
                      o For receive deliveries – populated whenever the user receives deliveries  
                      o For user log-in – populated whenever the user logs in the system |
| RELATED FORMS | None                                                                                           |
| RELATED FUNCTIONS | • Personnel Activity Log Function                                                               |
| AFFECTED TABLES | None                                                                                          |

Note: This table is for the administrator to track the assistant pharmacists' activities. Similar to the preceding two table columns, the activity column contains a formatted html string to be echoed to the webpage. The contents are processed internally.

➢ Reorder Table

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>This table is manly used for reordering of LOQ products via email to the vendor. This table is also used as a record of all the requested deliveries made by the staff (pharmacist, admin, super admin) to be used for verification/comparison of the deliveries received.</th>
</tr>
</thead>
</table>
| ATTRIBUTES  | • Delivery Key  
               • Delivery Number  
               • Product ID  
               • Number of big boxes  
               • Vendor  
               • Requested by |
Vendor Table

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>This table is used as a record of all the vendors. This is linked to the reorder table.</th>
</tr>
</thead>
</table>
| ATTRIBUTES                   | • Product ID  
|                              | • Vendor  
|                              | • Price per unit  
|                              | • Delivery Time  
|                              | • Number of small box per big box  
|                              | • Number of unit per small box |
| POPULATED VIA                | System startup/implementation – manual population  
|                              | System is online – via Edit Vendor Information button |
| RELATED FORMS                | • Reorder Form  
|                              | • Delivery Form |
| RELATED FUNCTIONS            | • Reorder Function  
|                              | • Delivery Function |
| AFFECTED TABLES              | • Deliveries Table (This is the details of the vendor column)  
|                              | • Reorder Table (This is the details of the vendor column) |