**Detailed Description of Supplier Module in PharmaERP**

**Introduction**

The supplier module takes care of all the suppliers that supply stocks to the various outlets of the distributor. First, whenever needed any employee at a particular outlet will place an order to the supplier, which will then be ratified by the Head or the Outlet Manager, upon delivery of the stocks, all necessary databases as explained above will be updated. But before that, the company needs to add a particular Supplier and all of its necessary details including the GSTN number in its database. The distributor will also have an access to the supplier’s inventory, from which he can choose items as per his need and place the order. A company’s supplier can be a Pharmaceutical Company, which manufactures drugs and then sells it to various wholesalers and distributor. All companies registered under this system are distributors. The Supplier Module and the Outlet module work very closely to carry out the basic underlying task of maintaining the company’s inventory. All the database tables associated with the module are –

*SupplierManagement* (keeps track of all suppliers registered with the distributor company)

*PurchaseOrder* (stores details of order placed to the supplier)

*PurchaseOrderItems (*contains all the items placed in the order)

*DrugManagement* (detailed description of all drugs available with the supplier)

*Transactions* (post-delivery, transaction of the order will be stored)

**Functional Requirement: *Place Order to Supplier***

Company Head or Outlet manager can place or approve an order for restocking inventory items. If supplier does not exist in the Company’s records, then the authority will have to create a new supplier record and after proper sifting through its existing inventory, will have to choose all the required items. Once the stock is delivered, payment will be automatically sanctioned and deductions will be made from the Company’s account post calculation of all the necessary taxes. Any junior employee can also request an order, but it will only be passed after approval from Company Head or Outlet Manager.

**Response Sequence**

User will have to request a place new order form and select appropriate supplier for the same. Once supplier info is available, User can select items from the manufacturer’s inventory. The order will be directly placed if it is by a Company Head or Outlet Manager, else will be queued until further approval. Once stocks are delivered, amount will be deducted and finance manager will be notified.

**Diagrams**

**1. UseCase Diagram**

Uses

Uses

**Head/**

**Outlet Manager**

**Calculate**

**GST**

**Calculate**

**Total**

**Place**

**Order**

**View**

**Order Form**

**Add**

**Supplier**

**Get Product**

**Information**

**Supplier Module for**

**PharmaERP (Distributor)**

**2. Activity Diagram**

**View**

**Supplier Details**

**Receive**

**Confirmation**

**Add Supplier**

**Place Order**

**Get**

**Product Details**

**Select**

**Products**

**Get**

**Product Details**

**Select**

**Supplier**

**3. Sequence Diagram**

**TransactionDB**

**DrugInventory**

**Distributor**

Send Place Order Request

**SupplierDB**

**System UI**

Return Order Prompt

Validate

Text

Validate

Text

Return Request

Request Supplier Inventory Details

Return Request

Request Supplier Details

Enter Supplier Details

Give Order Details

Request Approval

Approve Request

Generate Record

Record Transaction

Generate Record