

**Design Specification for  
Supply Chain Management  
Ver 1.0**

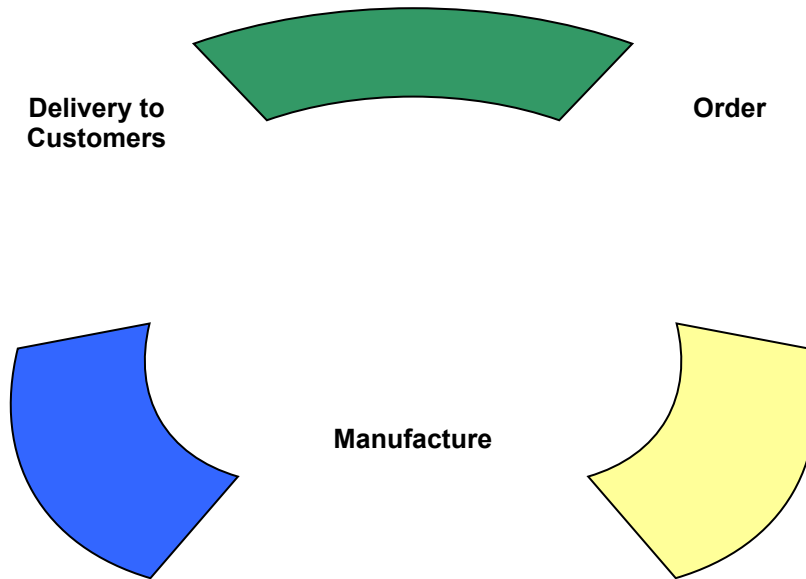
**Value Added Trading (VAT)**

Submitted by:  
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**Introduction:** For every Company to remain competitive in this fast-moving world must encounter several challenges to reduce product development time, improve the quality of the products it manufactures, and try to decrease production costs and lead times. Isolated Changes to specific organizational units would not help in meeting these challenges rather depend critically on the relationships and interdependencies among different organization units. To cope with this fast-moving economy, companies deploy High-value-adding manufacturing techniques. As a result, the above challenges transform into severe problems of establishing and maintaining efficient material flows along product supply chains. Hence the need for the hour is successful Supply Chain Management.

Supply Chain Management is a complex mechanism. Supply Chain Management combines technology with human efforts to identify trends, perform comparisons, and highlight opportunities in supply chain functions, even when large amounts of data are involved. Not to forget the key issues such as Cost and profit which are of utmost importance in hi-tech industries. With Cost, an ongoing challenge manager in Sales, planning, and financials depends heavily on good supply chain management solutions.

The core requirement for any successful supply chain management would be to have the right products in the right quantities at the right place at the right moment at minimum cost, with utmost customer satisfaction, inventory management, and flexibility. A product supplier's flexibility is its ability to respond to changes in demand. A company that can receive orders from Customers, process the order and receive components from its Suppliers, assemble these, fill the orders, and ship the finished products to customers in one single day. This company would have total flexibility. It would be able to prevail under any unforeseen events on a day-to-day basis and could easily attain a hundred percent customer satisfaction without any inventory.

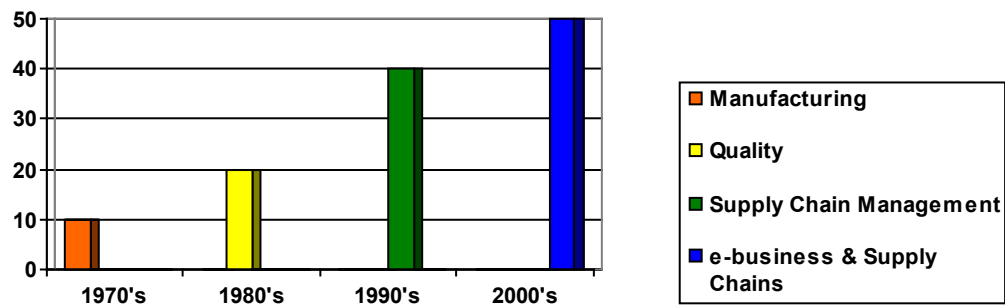


But this occurs only once in a thousand case. A supply chain may consist of many levels of production, transportation, and warehousing, each level adding to the lead time. The time from the first materials are ordered at the beginning of the supply chain till the finished products are delivered to the customer may be long.

Customers will not wait this long from order to delivery. The Company needs to plan, and therefore also needs to estimate future demand by making demand forecasts. If the planning of production and stock maintenance was perfect the Company would be able to implement a pure Just in Time strategy, with components arriving as they are needed, and finished goods being shipped as they leave the assembly line. However in a supply chain, many such events cannot be overlooked, and uncertainties need to be accounted for. There might be several reasons for the delay like late shipments from suppliers, defective material from suppliers, imperfect production yield, production breakdown, or highly acute product demands.

To overcome these problems an online system would solve the problem. Today, the role of the Supplier as an intermediary has morphed into that of a 'intermediary'. A Supplier plays a virtual role, an almost invisible part of a smooth supply chain. Third-party logistics providers help ship goods from one part of the globe to another in a day, while a more customer-centric distribution chain enables direct ordering and tracking of orders over the Internet.

The diagram shows how manufacturing methodologies have changed over the years



Remote means of customer service diminishes the importance of a local customer. Today's supply chains have become extended value chains where supplier operations have shifted from the buying, storing, and selling paradigm to the sell, source, and ship paradigm. To make these necessary shifts the supplier needs to have more information about all customers whom he deals with, learn to manage inventory effectively from other distributors and have a workflow-based information system. Effective supply chain management is a complex loop, one that begins with the customer and ends with the customer. The use of databases, communication systems, and the foremost advanced software is crucial to any supply chain management system. Optimal management of a supply chain results in revenue enhancement through high customer satisfaction and repeated sales with the same customer and enhances business growth. A web-enabling supply chain helps connect a company to all its trading partners around the globe taking away all the weak links existing within it.

A web-enabled distribution network helps a supplier work with multiple business models; and communicate with business partners for better price deals and a smoother supply chain. Selling, sourcing, and delivery constitute a part of virtual operations, and the subcontractors, and logistics coordinators are the distributors themselves.

Selling is accomplished through the Internet and traditional channels and information about customers helps the Company to forecast demands. A no-risk, no-title approach to sourcing and negotiating pricing along with collaboration with other distributors, partners, and manufacturers creates demand forecasts and negotiates allocations through vendor-managed and demand-managed information.

A distributor takes orders for him over the internet. These orders may be for items that he does not hold or source. In short, the distributor does not own the inventory, for which he can substitute by buying the items from other Supplier which he has contacts with. This order is added to a combined pool of orders that are from a consolidated list of Customers. Manufacturers have already worked in combination with this pool in forecasting demand, reserving allocation, and even agreeing on pricing.

The order that comes in is matched with the shared pool of orders for preferred manufacturers and then drop-shipped directly to the customer from the manufacturer using a third-party logistics provider. Payment to the suppliers happens at the time of the delivery of the goods.

An Online Supply Chain Management would easily accomplish some of the key things such as

- Enables an organized planning system
- Shares costs of individual items, products, and pricing
- Displays Sales and Purchase order status, and order tracking
- Initiates the Quotation-to-payment process
- Provides a reliable delivery date present on a delivery note
- Adds precious data to demand forecasting and plans.
- Relieves sales force of routine orders and helps to concentrate on better marketing techniques
- Reduces transaction costs by providing a reporting system for all the transactions which is made available online.
- Enables exemplary customer service and reduces the risk for Suppliers of running out of stocks at all points for speed and convergence.

The ability to treat each customer as a unique entity and provide customer-specific value-added services and fulfill joint forecasting plans is what any data warehouse should accomplish today.

It is no more a specific physical location, instead it is a dynamic storehouse of information that offers mass customization - real-time information, 100% accuracy; and is also mass accessible and capable of integrating with other business systems.

The main role of the inventory in supply chain management is execution. The storage center of the web enabled world enables a continuous flow of distribution operations. Apart from storing and shipping material, it tracks demands, manages inventory from suppliers and custom labels products.

As a Case in point, consider a high-technology company that manufactures a broad range of Boilers, which include auxiliaries which are required for building the huge boilers and mounting it. Building a good Supply Chain Management for this company would be fruitful and deliver rich business information to managers in charge of tracking the reseller and retail sales channels, which would drastically boost the gross revenue of the firm. The business requirements of this System would be to throw light on key issues such as Meeting the reporting requirements of the User base, Tracking Customer Orders, and documenting the Sales and Purchase of each product sold and purchased. An appropriate change in the inventory has to be made on completion of each Sales and Purchase transaction.

Supply Chain Management would require handling these issues effectively

- **Customer Satisfaction:** The performance of the SCM would directly reflect on the service provided to the Customers.
- **Information on Delivery of Products:** With an online SCM incorporated the firm would have all the details about the delivery of its products to the Customers and all the Sales-related information in a Centralized place.
- **Quality Information Systems:** would provide information relating to inventory, backlog, future production plans, and so on. Information is made available which would avoid having long processes and help in facing acute demand forecasts. This would avoid the manufacture of wrong products and prevent backlogs of surplus items.

- **Supply Chain Metrics:** The main objective of supply chain metrics is to give the basis for evaluations of the performance of the whole supply chain as one system.
- **Organizational Barriers:** Entities in a supply chain may belong to different units within the organization. The firm will independently measure the performance of the Entities.
- **Complete Supply Chain:** Supply chain managers are often focused only on the internal supply chain. Going beyond the internal supply chain by including external suppliers and customers often exposes new opportunities for improving internal operations.

## **Approach and Results**

The primary objective is to develop a system for carrying out the various transactions involved in supply-chain management smoothly. Models are defined in terms of constituent supply chain "agents" (e.g., suppliers, Customers, items), their structural relationships, interaction protocols, and coordination policies. This approach thus emphasizes the construction of a system that captures the supplier details that typically exist concerning the purview, the sales life cycle, the customer details along with the purchase life cycle details and objectives of individual supply chain entities and promotes analyses of supply chain performance from a variety of organizational perspectives (e.g., individual nodes, confederated sub-chains, overall reporting of each phase of Purchase and Sales). From a system development standpoint, our approach aims at flexible and rapid configuration of alternative scenarios. The implementation perspective is object-oriented, and one goal is to produce dynamic link libraries of common model building blocks (e.g., Supplier, Customer, Sales, and Purchase) that can be adapted and reused in different applications.

My work to date has focused specifically on analyzing the information required for carrying out the Sales and Purchases between suppliers and Customers on supply-chain dynamics. One interesting outcome of my initial study was the characterization of situations where individual suppliers need to share information with remaining suppliers regarding the Items that they sell.

## **Research Issues:**

Flexibility is often imperfect because of long lead times, uncertainties, and unforeseen events. To counterbalance this lack of flexibility companies will need to keep inventories at various levels of the supply chain. Balancing the costs of imperfect customer satisfaction and holding inventory is a classic issue of supply chain management.

## **Summary:**

The central aim of this supply chain management research study is to have the right products in the right quantities (at the right place) at the right moment at minimal cost, which is translated into the interrelated issues of customer satisfaction, inventory management, and flexibility. Customer satisfaction is to a high degree dependent on the flexibility of the supply chain, i.e. its ability to respond to changes

in demand. Flexibility is often imperfect because of long lead times, uncertainties, and unforeseen events. To counterbalance this lack of flexibility companies will keep inventories at various levels of the supply chain. Balancing the costs of imperfect customer satisfaction and holding inventory is a classic issue of supply chain management. With the customer-centric distribution chain today, the role that a distributor plays includes enabling direct ordering and tracking of orders over the Internet.



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# 1 Supply Chain Management (SCM)

## 1.1 Overview

This document seeks to present design specifications regarding Master, Purchase, Sales, and Inventory functions in Value Added Trading (VAT). This document is a follow-up to the System Requirement Specifications for the business function.

## 1.2 Document Organization

The functional specifications for the module are organized as under:

1. **Purpose** – this section gives a brief description of the page or the process described in the section
2. **Pre-requisites** – This section lists all the data that are required in the application before any action is performed on the page.
3. **Class Diagram**– A picture of the DB design is provided for further explanation. The pages will be built based on this design.
4. **Field Descriptions** - The table examines each of the fields in the Page displayed for its characteristics.
5. **Explanatory Notes** – This section provides a brief description of the business logic used on the Page.
6. **Functions and Buttons:**
  - a. **Actions** - are controlled through three principal buttons viz. Save, Delete, and Print. In some pages, additional action buttons are provided depending on the specific needs of the page.
  - b. **Validations** – Validations that would be performed on clicking of an Action button are detailed.

## 2 User Master

### 2.1 Purpose

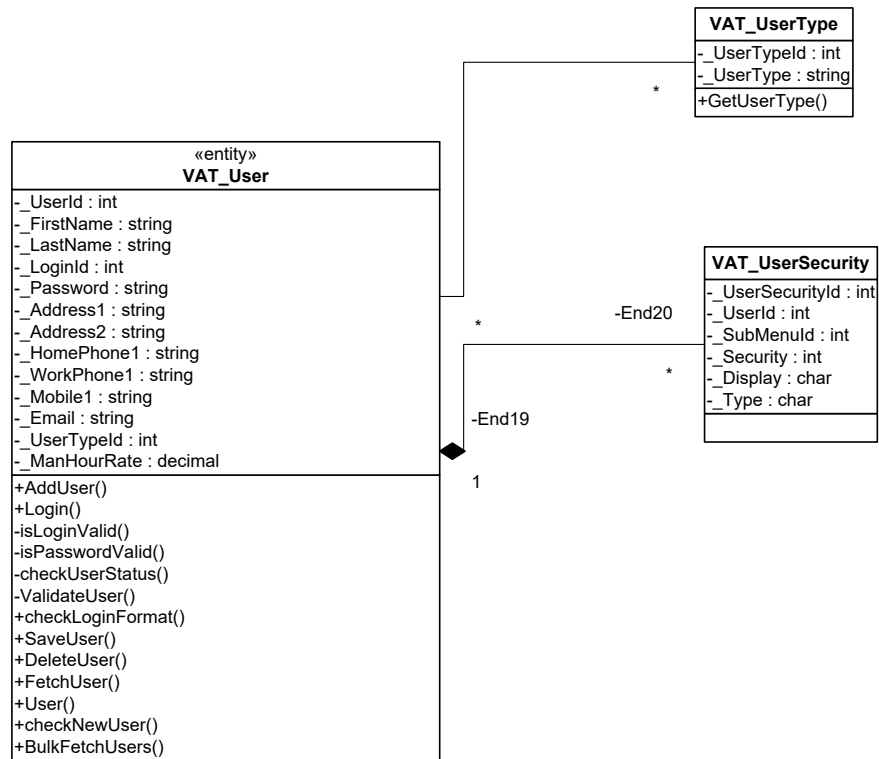
1. The purpose of this page is to capture User Details along with all the contact details.
2. In the current scenario User is the person who will be interacting with the System.

### 2.2 User Master

#### 2.2.1 Pre Requisites

None

## 2.2.2 Class Diagram



## 2.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
User Id		Non Editable	Yes	Integer	Auto Incremented
First Name	Text Box	Editable	Yes	String	
Last Name	Text box	Editable	No	String	
Login Id	Text Box	Editable	Yes	Integer	
Password	Text Box	Editable	Yes	string	
Address1	Text Box	Editable	Yes	String	
Address1	Text Box	Editable	No	String	
Home Phone	Text Box	Editable	No	String	(0-9)
Work Phone	Text Box	Editable	No	String	(0-9)
Mobile	Text Box	Editable	No	String	(0-9)
Email	Text Box	Editable	No	String	(0-50) with email validation regular expressions.
UserType	Text Box	Editable	Yes	String	System Administrator, Accountant (person who is going to handle the System)
ManHourRate	TextBox	Editable	No	Decimal(18, 2)	Wage of the User

### 2.2.4 Explanatory Notes

This page fetches all the details of the user who is going to work on the system along with his UserTypeId and Man HourRate.

### 2.2.5 Functions and Buttons

#### 2.2.5.1 Save – Saves the Transaction after passing the following validations

Email Validation and Man Hour Rate will allow only decimal values.

#### 2.2.5.2 Delete – Disabled

#### 2.2.6 Post Condition

User is added successfully.

## 3 Item Master

### 3.1 Purpose

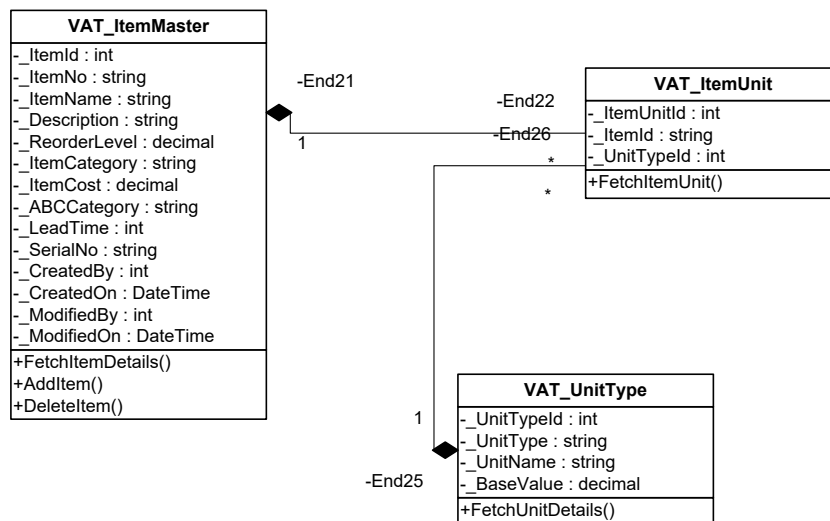
1. The purpose of this page is to capture all the details with respect to Items. In the current scenario Items are going to be things around which the Supply Chain is going to work around.

### 3.2 Item Master

#### 3.2.1 Pre Requisites

None

#### 3.2.2 Class Diagram



### 3.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
Item Id		Non Editable		Integer	Auto Incremented
Item No	Text Box	Editable	Yes	string	Scr-109,HrB-294
Item Name	Text box	Editable	No	string	Screws, Hammer Block
Description	Text Box	Editable	No	string	
ReOrder Level	Text Box	Editable	Yes	Decimal	
Item Category	Text Box	Editable	No	String	
ABC Category	Text Box	Editable	No	String	
Lead Time	Text Box	Editable	Yes	Integer	In days
Serial No	Text Box	Editable	Yes	String	
Unit Type	Text Box	Editable	No	String	
Unit Name	Text Box	Editable	No	String	Boxes,Dozens etc
Base Value	Text Box	Editable	Yes	Decimal	Is the value per item Example:90.00

### 3.2.4 Explanatory Notes

This page fetches all the details of the Items with the Unit details. Each Item will be confined within a separate unit and base value will be the value of each single item within the Box. The Item Unit details will be fetched from the Popup screen.

### 3.2.5 Functions and Buttons

#### 3.2.5.1 Save – Saves the Transaction after passing the following validations

Base Value will allow only decimal values. And Reorder Level, Lead Time is mandatory because this will help in maintaining Inventory of the particular Item.

#### 3.2.5.2 Delete

Before deleting an item validations is checked to verify whether the item is not involved in any Sales or Purchase Transaction.

### 3.2.6 Post Condition

Item is added successfully and subsequently entry for the particular item will be made in Inventory table also.

## 4 Supplier Master

### 4.1 Purpose

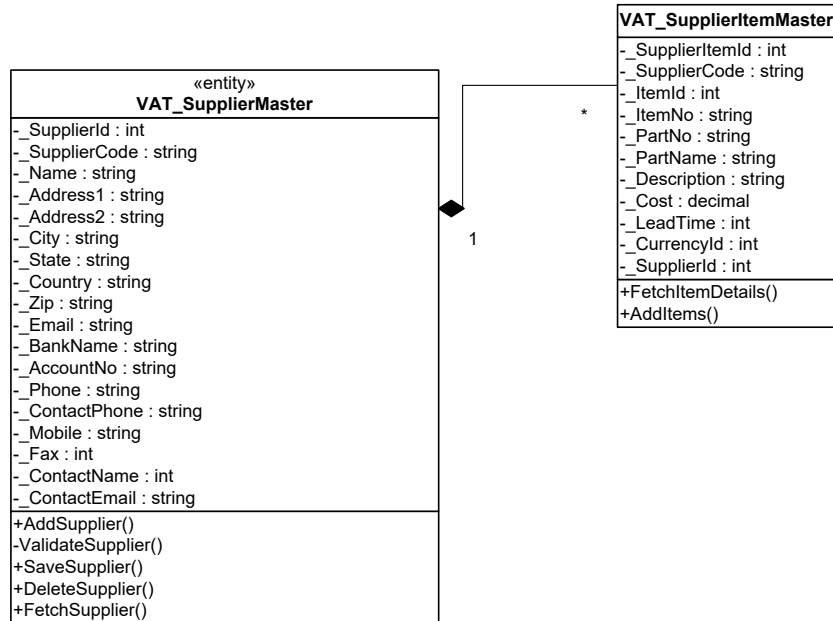
1. The purpose of this page is to capture all the details with respect to Supplier with all his contact details and list of Items which the supplier supplies.

### 4.2 Supplier Master

#### 4.2.1 Pre Requisites

Items should be available in the Item Master before associating a supplier with the items which the supplier is going to supply.

#### 4.2.2 Class Diagram



#### 4.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
Supplier Id		Non Editable		Integer	Auto Incremented
SupplierCode	Text Box	Editable	Yes	string	M/s1039
Name	Text box	Editable	No	string	Caterpillar
Address1	Text Box	Editable	No	string	
Address2	Text Box	Editable	No	string	
City	Text Box	Editable	Yes	String	
State	Text Box	Editable	No	String	
Country	Text Box	Editable	No	String	
Zip	Text Box	Editable	No	String	(0-9)
Email	Text Box	Editable	Yes	String	
Bank Name	Text Box	Editable	No	String	Common Wealth Bank
Account No	Text Box	Editable	No	String	0937483681
Phone	Text Box	Editable	No	String	(0-9)
Contact Phone	Text Box	Editable	No	String	(0-9)
Mobile	Text Box	Editable	No	String	(0-9)
Fax	Text Box	Editable	No	String	(0-9)
Contact Name	Text Box	Editable	No	String	
Contact Email	Text Box	Editable	Yes	string	

#### **4.2.4 Explanatory Notes**

This page fetches all the details of the Supplier with the Contact details. Each Supplier will be identified by the his supplier Code through out the System which will be Unique and the Suppliers Bank Name and Account Number are also fetched here which would be retrieved when the supplier is involved in any Sales transaction. An Item Master popup is designed for selecting the items which the Supplier is going to supply.

#### **4.2.5 Functions and Buttons**

##### **4.2.5.1 Save – Saves the Transaction after passing the following validations**

Account Number if entered should be numeric and email validation for email and contact email is done. Supplier code is checked for uniqueness.

##### **4.2.5.2 Delete**

Before deleting a supplier a check is made to ensure that the supplier is not involved in any Purchase transactions and the supplier does not have any pending payments against him.

##### **4.2.6 Post Condition**

Supplier is added successfully and subsequently entry for the particular Supplier will be made available for Purchase transactions.

## **5 Customer Master**

### **5.1 Purpose**

1. The purpose of this page is to capture Customer Details along with all the contact details.

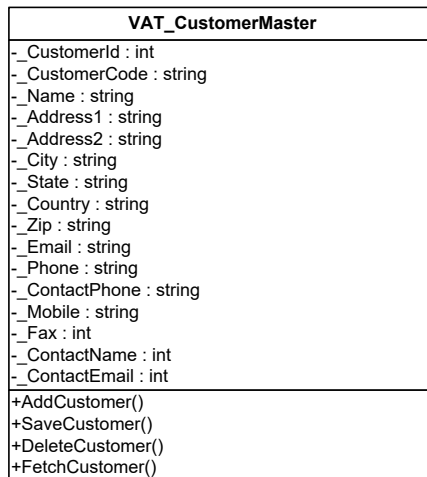
### **5.2 Customer Master**

#### **5.2.1 Pre Requisites**

None



### 5.2.2 Class Diagram



### 5.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
Customer Id		Non Editable		Integer	Auto Incremented
Customer Code	Text Box	Editable	Yes	string	
Name	Text box	Editable	No	string	Caterpillar
Address1	Text Box	Editable	No	string	
Address2	Text Box	Editable	No	string	
City	Text Box	Editable	Yes	String	
State	Text Box	Editable	No	String	
Country	Text Box	Editable	No	String	
Zip	Text Box	Editable	No	String	(0-9)
Email	Text Box	Editable	Yes	String	
Phone	Text Box	Editable	No	String	(0-9)
Contact Phone	Text Box	Editable	No	String	(0-9)
Mobile	Text Box	Editable	No	String	(0-9)
Fax	Text Box	Editable	No	String	(0-9)
Contact Name	Text Box	Editable	No	String	
Contact Email	Text Box	Editable	Yes	string	

### 5.2.4 Explanatory Notes

This page fetches all the details of the Customer.

### 5.2.5 Functions and Buttons

#### 5.2.5.1 Save – Saves the Transaction after passing the following validations

Email Validation and Customer Code is checked for uniqueness.

#### 5.2.5.2 Delete

Before deleting a customer a check is made to ensure that the customer is not involved in any Sales transactions and the Customer does not have any pending payments against him.

#### 5.2.6 Post Condition

Customer is added successfully.

## 6 Purchase Enquiry

### 6.1 Purpose

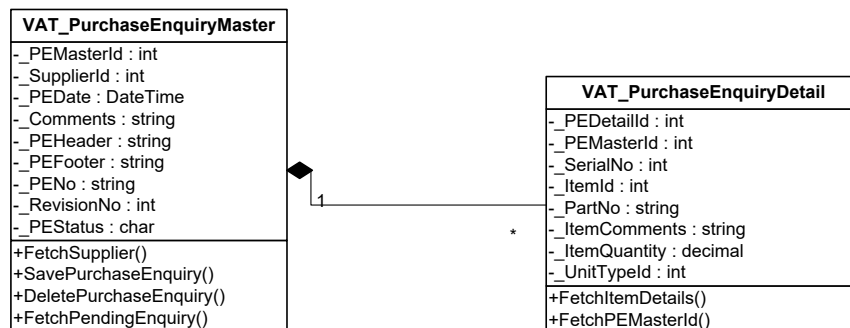
A Purchase Enquiry is made to the Supplier which has all the items which are required along with the quantities.

### 6.2 Purchase Enquiry

#### 6.2.1 Pre Requisites

Items should be available in the Item Master before associating a supplier with the items which the supplier is going to supply.

#### 6.2.2 Class Diagram



#### 6.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
PEMaster Id		Non Editable		Integer	Auto Incremented
Supplier Code	Drop Down	Editable	Yes	integer	List of all Supplier Code is displayed in the DropDown List while the Underlying Value Supplier ID will be stored in the Database
PEDate	Text box	Editable	Yes	string	Current Date

Comments	Text Box	Editable	No	string	Example: Comment on particular item like Needed high Quality Screw Jacks etc
PEHeader	Text Area	Editable	No	string	Note to the supplier...
PEFooter	Text Area	Editable	No	string	Note to the supplier...
PENo			No	String	Will be generated for this enquiry by the System VAT/PE/2005-06/00001
ItemId	Label	Non Editable	No	String	All the Items which the supplier supplies
Part No	Text Box	Editable	No	String	The Part no can be assigned to a Item if the user wishes
Item Comments	Text Box	Editable	Yes	String	High Speed steel screws etc
Item Quantity	Text Box	Editable	Yes	Decimal	12.00,18.00

#### **6.2.4 Explanatory Notes**

This page fetches all the details which are necessary for making a Purchase Enquiry. All the Suppliers are listed in DropDown List. Once a particular Supplier is selected from the DropDown all the Items which the supplier supplies will be made available in a Popup screen. Items are selected from this popup and provision is provided for entering the quantity required for each item. A Purchase Enquiry Number is VAT/PE/2005-06/00001 generated which is unique and this transaction will have an initial PEstatus as 'P' (pending).

#### **6.2.5 Functions and Buttons**

##### **6.2.5.1 Save – Saves the Transaction after passing the following validations**

Item Quantity should be decimal values and Date should be current date.

##### **6.2.5.2 Delete**

Purchase Enquiry will be deleted.

##### **6.2.6 Post Condition**

A Purchase Enquiry is made for particular items with the Quantities specified.

## **7 Purchase Order**

### **7.1 Purpose**

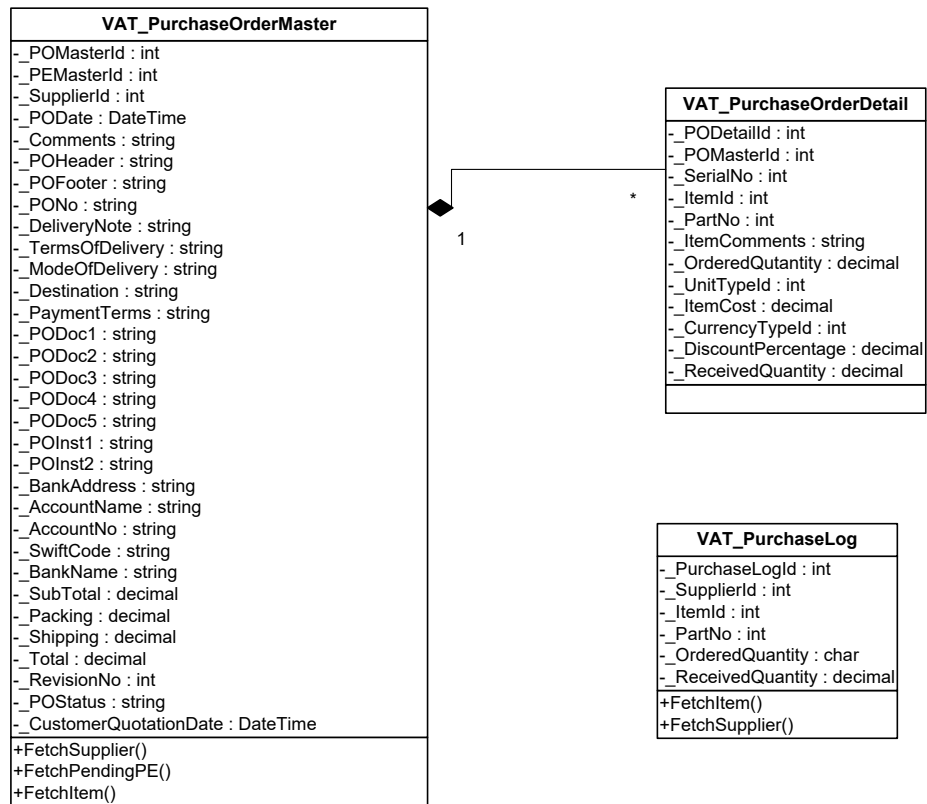
A Purchase Order is made to the Supplier relating to the Purchase Enquiry made.

### **7.2 Purchase Order**

#### **7.2.1 Pre Requisites**

Supplier Code should be made available in DropDown along with all the Pending Purchase Enquiries.

### 7.2.2 Class Diagram



### 7.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
POMaster Id		Non Editable		Integer	Auto Incremented
Supplier Code	Drop Down	Editable	Yes	string	List of all Supplier Code is displayed in the DropDown List while the Underlying Value Supplier ID will be stored in the Database

PEMasterId	Drop Down	Editable	Yes	String	All the Pending Purchase Enquires for that particular supplier will be displayed.
PO Date	Text Box	Editable	No	Datetime	Current Date
POHeader	Text Area	Editable	No	string	Note to the supplier...
POFooter	Text Area	Editable	No	string	Note to the supplier...
PONo			No	String	Will be generated for this Order by the System VAT/PO/2005-06/00001
Delivery Note	Text Box	Non Editable	No	String	Handle with care
Terms of Delivery	Text Box	Editable	No	String	Payment on Delivery
Mode of Delivery	Text Box	Editable	No	String	Shipment details
Payment Terms	Text Box	Editable	Yes	String	Installments, Bullet Payment
PODoc1	Text Box	Editable	No	String	Purchase Order Documents
PODoc2	Text Box	Editable	No	String	Purchase Order Documents
PODoc3	Text Box	Editable	No	String	Purchase Order Documents
PODoc4	Text Box	Editable	No	String	Purchase Order Documents
PODoc5	Text Box	Editable	No	String	Purchase Order Documents
PO Inst 1	Text Box	Editable	No	String	Purchase Order Instructions
PO Inst 2	Text Box	Editable	No	String	Purchase Order Instructions
Bank Address	Text Box	Editable	No	String	Common Wealth Bank
Account Name	Text Box	Editable	No	String	M/S Warehouse
Account No	Text Box	Editable	No	String	07923740028
Swift Code	Text Box	Editable	No	String	E-9837
<b>Details Relating to Purchase Enquiry Items</b>					
Serial No	Label	Non Editable	No	Integer	1,2,3,4,5
Item Id	Label	Non Editable	No	Integer	Item Name will be displayed but Item Id will stored in the Database
Part No	Label	Non Editable	No	String	Part no specific to Supplier
Item Comments	Textbox	Editable	No	String	Mild steel
Ordered Quantity	TextBox	Editable	Yes	Decimal	10.00,19.00
UnitTypeld	DropDown	Editable	Yes	Integer	List of Unit Types specific to the Item will be displays like Doznes,Meters

Item Cost	Text box	Editable	Yes	Decimal	Number of Items * Base Value
CurrencyType	DropDown	Editable	No	Integer	AUD,Pounds
Discount Percentage	TextBox	Editable	No	Decimal	19%
Amount	TextBox	Non Editable	No	Decimal	TotalItemCost+Packing +Shipping-Discount Percentage
Customer QuotationDate	Label	Non Editable	No	Datetime	Date when the Purchase Enquiry was made (PE Date)

#### **7.2.4 Explanatory Notes**

This page fetches all the details which are necessary for making a Purchase Order. All the Suppliers are listed in DropDown List. Once a particular Supplier is selected from the DropDown all the Pending Purchase Enquiries for the supplier are displayed in a Drop Down. Once the Purchase Order is selected from the DropDown all the Items pertaining to the Purchase Enquiry are displayed in grid and provision is provided for the user to enter the Item Comments, Items Cost, Item Quantity and required Quantity. Once an Order is made the Purchase Enquiry will no longer be available for that particular Supplier subsequently the Purchase Enquiry will not be available for selection from the Drop Down and the PEMaster table will be updated with PEStatus as 'S' and POMaster table will be update with POStatus as 'P'.

#### **7.2.5 Functions and Buttons**

##### **7.2.5.1 Save – Saves the Transaction after passing the following validations**

Purchase Order is made against the selected Purchase Enquiry to the Supplier and Item Ordered Quantity and Item Rate is checked for decimal values

##### **7.2.5.2 Delete**

Purchase Order will be deleted and the equivalent Purchase Enquiry status will be 'D'

##### **7.2.6 Post Condition**

A Purchase Order is made for particular items with the Quantities and Rate specified and will the shipment and Bank Account details.

## **8 Material Receipt**

### **8.1 Purpose**

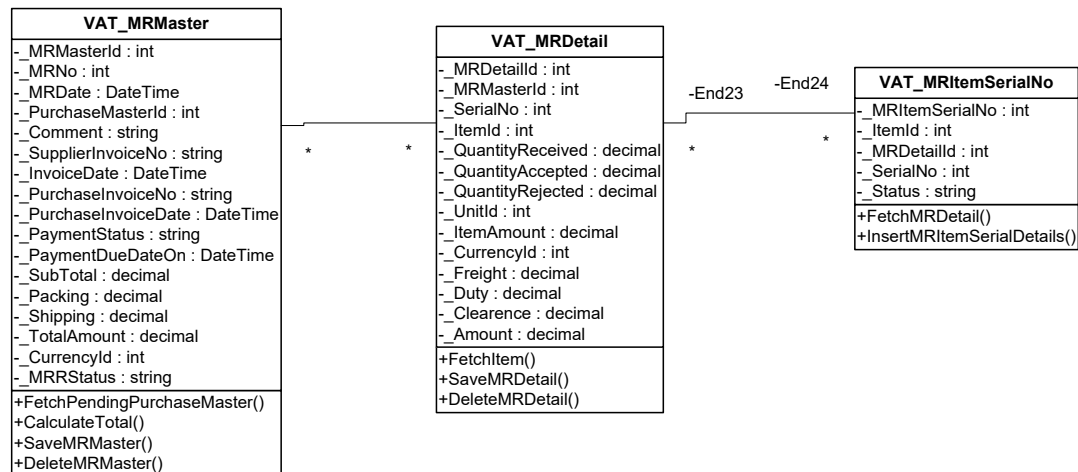
On the receipt of Ordered Items from a Supplier the Material Receipt is generated based on the conditions of the delivered items.

### **8.2 Material Receipt**

#### **8.2.1 Pre Requisites**

Purchase Order should have been made and PO is available in the Drop Down for which a Material Receipt has to be generated.

## 8.2.2 Class Diagram



## 8.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
MRMaster Id		Non Editable		Integer	Auto Incremented
MRNo		Non Editable	No	string	System generated
MR Date	Text Box	Editable	No	Datetime	Current Date
PurchaseMasterId	Drop Down	Editable	Yes	Integer	All the Purchase Order will be displayed
<b>Details Pertaining to Purchase Order Items</b>					
Serial No	Label	Non Editable	No	Integer	1,2,3,4,5
Item Id	Label	Non Editable	No	Integer	Item Name will be displayed but Item Id will stored in the Database
Quantity Received	Text Box	Non Editable	No	Decimal	19.00
Quantity Accepted	Text Box	Editable	Yes	Decimal	10:00
Quantity Rejected	Text Box	Editable	No	Decimal	9.00
Item Amount	Text Box	Non Editable	No	Decimal	Number of Items*Rate Per Item
Item Comments	Text Box	Editable	No	String	Mild steel
Freight	Text Box	Editable	Yes	Decimal	10.00,19.00
Duty	Text Box	Editable	Yes	Decimal	18.00
Clearance	Text Box	Editable	Yes	Decimal	9.00
Amount	Text Box	Non Editable	No	Decimal	Total Item Amount+Freight+Duty-Clearance

#### **8.2.4 Explanatory Notes**

This page fetches all the details which are necessary for making a Material Receipt. Once a Purchase Order is selected from the Drop Down all the Ordered Items are displayed in grid and text boxes are available against each item. The user can insert the Quantity Accepted and Quantity Rejected in the text box and Amount will be calculated only for the Accepted Quantities. POStatus in the PurchaseOrder table is updated as 'S'

#### **8.2.5 Functions and Buttons**

##### **8.2.5.1 Save – Saves the Transaction after passing the following validations**

Material Receipt is generated and validation is checked to ensure that Quantity Accepted entered by the user is equal to or less than the Quantity Ordered and Quantity Rejected is equal to or less than the Quantity Ordered.

##### **8.2.5.2 Delete**

Material Receipt will be deleted and the POStatus in the PurchaseOrder table is updated as 'D'

#### **8.2.6 Post Condition**

A Material Receipt is made for particular items with the accepted and Rejected Quantities specified.

## **9 Invoice**

### **9.1 Purpose**

On the Material Receipt is generated based on the conditions of the delivered items and Invoice is generated for the same.

### **9.2 Purchase Invoice**

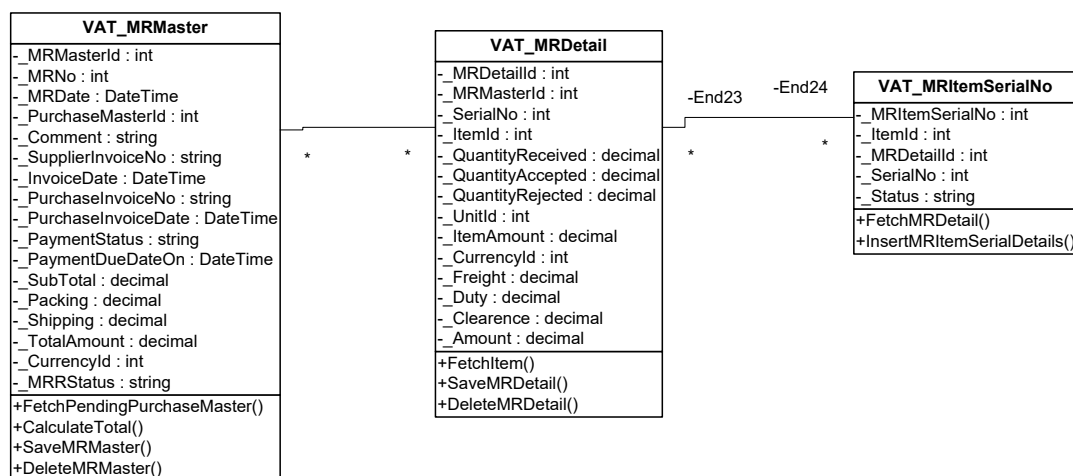
#### **9.2.1 Pre Requisites**

Material Receipt should have been made and MRR is available in the Drop Down for which Invoice has to be generated.

#### **9.2.2 Class Diagram**

The same Class is used as that of Material Receipt.





### 9.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
MRMaster Id		Non Editable		Integer	Auto Incremented
MRNo	Drop Down	Editable	Yes	string	System generated
MR Date	Text Box	Editable	No	Datetime	Current Date
Supplier InvoiceNo	Label	Non Editable	No	String	Invoice Number from the Supplier.
Purchase Invoice Number	Label	Non Editable	No	String	Purchase Invoice Number will be generated for that particular Material Receipt
Purchase Invoice Date	Label	Non Editable	No	Date Time	Current Date
Payment Status	Text Box	Editable	Yes	String	Cash/Cheque
Payment Due Date On	Text Box	Editable	Yes	Date Time	Date before which all the Payments will be made for the Invoice
SubTotal	Text Box	Non Editable	No	Decimal	Number of Items * Rate Per Item
Packing	Text Box	Editable	No	Decimal	Packing charges incurred
Shipping	Text Box	Editable	No	Decimal	Shipping charges incurred
Total Amount	Text Box	Editable	Yes	Decimal	SubTotal+Packing+Shipping

### 9.2.4 Explanatory Notes

This page fetches all the details which are necessary for making a Purchase Invoice. Once a Particular Material Receipt is selected Purchase Invoice Number is generated and the total Invoice Amount is calculated.

### **9.2.5 Functions and Buttons**

#### **9.2.5.1 Save – Saves the Transaction after passing the following validations**

Purchase Invoice is generated for the Material Receipt. and Payment Status should be by Cheque or Cash and Payment Due Date should be greater than Current Date.

#### **9.2.5.2 Delete**

MRRStatus in the Material Receipt table will be updated as 'D'.

### **9.2.6 Post Condition**

Purchase Invoice No is generated with all the necessary Payment details.

## **10 Payment**

### **10.1 Purpose**

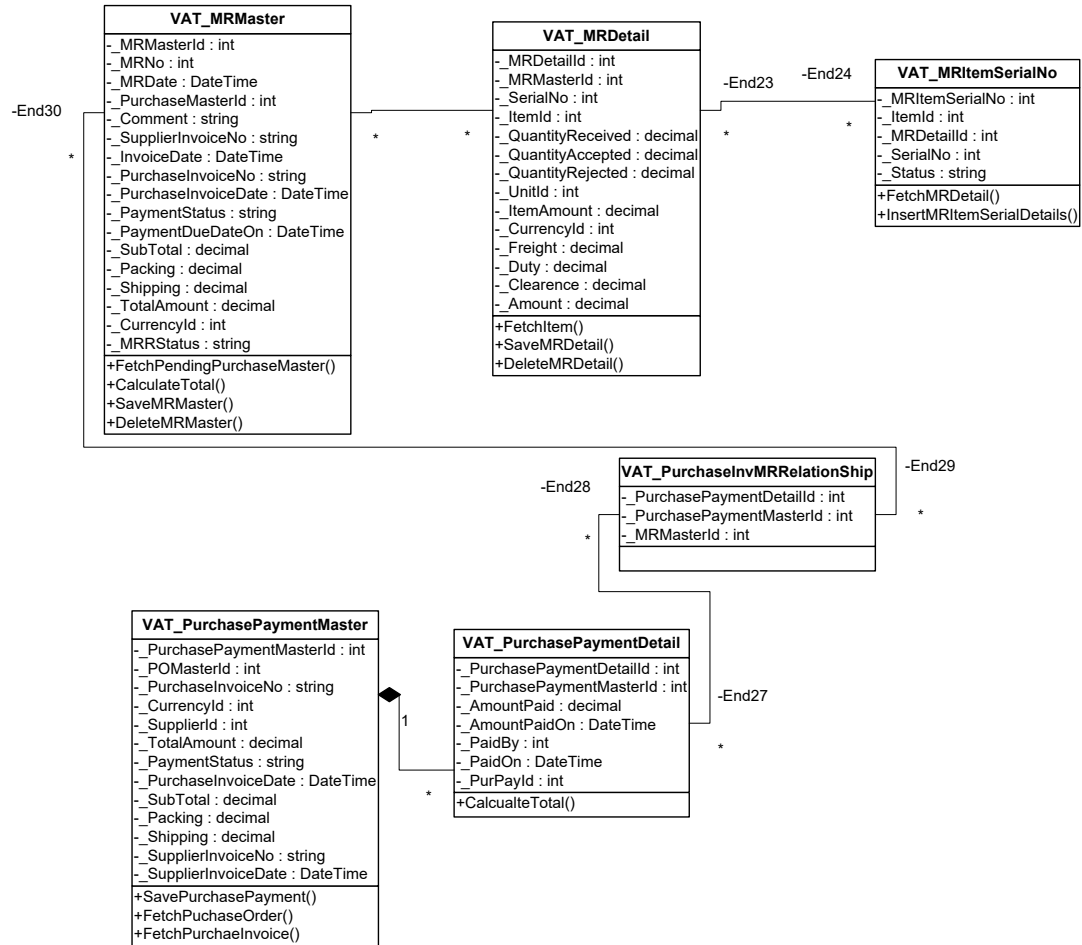
The Payment for the Purchase Invoice generated will be made through this transaction.

### **10.2 Payment**

#### **10.2.1 Pre Requisites**

Purchase Invoice Number will be made available in the Drop Down for which the Payment is pending.

## 10.2.2 Class Diagram



## 10.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
PurchasePaymentMasterId		Non Editable		Integer	Auto Incremented
POMasterId		Non Editable	No	string	Purchase Order Number of the selected Purchase Invoice Number
Purchase Invoice No	Drop Down	Editable	Yes	String	List of all Purchase Invoice for which Payment is pending
SupplierId	Label	Non Editable	No	String	Name of the Supplier related with Purchase Order
Total Amount	Text Box	Non Editable	No	String	Total Invoice Amount

Payment Status	Text Box	Editable	Yes	String	Cash/Cheque
Purchase Invoice Date	Label	Non Editable	No	Date Time	Date on which the Purchase Invoice was generated
<b>Details Table</b>					
PurchasePaymentMasterId		Non Editable		Integer	Auto Incremented
PurchasePaymentDetailId		Non Editable		Integer	Auto Incremented
Amount Paid	Text Box	Editable	Yes	Decimal	Amount paid against the Purchase Invoice
Amount Paid On	Text Box	Editable	Yes	Decimal	Date of Payment(Default Current Date)
Paid By	Text Box	Editable	Yes	string	
Paid On	Text Box	Editable	Yes	Date Time	Default Current Date

#### **10.2.4 Explanatory Notes**

This page fetches all the details which are necessary for making a Purchase Payment. Once a Purchase Invoice is selected from the Drop Down all the payment details are made available with provision for entering the Amount, Payment Date and Paid By and Paid On details. Partial Payments can be made for a Purchase Invoice and provision is also provided for making payments for multiple Purchase Invoices.

#### **10.2.5 Functions and Buttons**

##### **10.2.5.1 Save – Saves the Transaction after passing the following validations**

Amount Paid will be saved in the Database for the Purchase Invoice for the corresponding Purchase Invoice.

##### **10.2.5.2 Delete**

Purchase Payment will be deleted and the MRRStatus in the MRMaster table is updated as 'D'

#### **10.2.6 Post Condition**

Payment Amount will be updated in the Purchase Payment Detail table against the corresponding PurchasePayment Number

## **11 Sales Quotation**

### **11.1 Purpose**

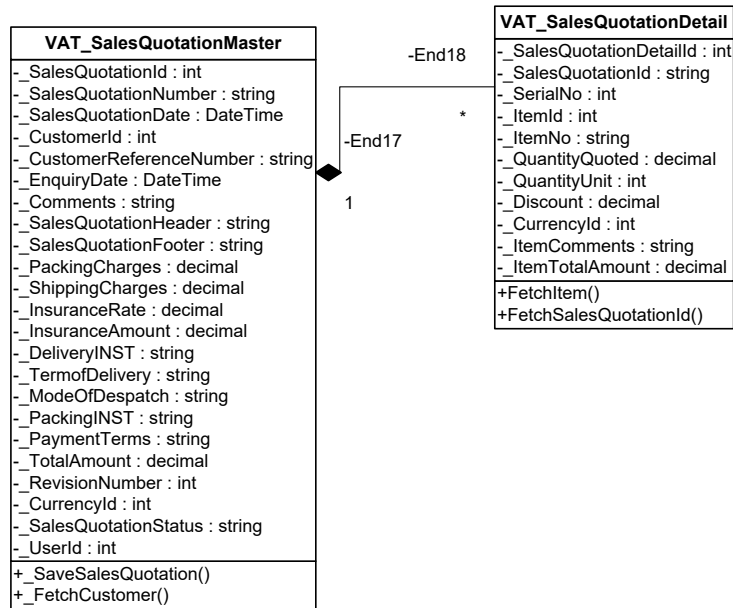
Based on the Rough Sales Quote provided by the Customer a Sales Quotation is generated which has all the items which are required along with the quantities.

### **11.2 Sales Quotation**

#### **11.2.1 Pre Requisites**

Items should be available in the Item Master before associating a supplier with the items which the supplier is going to supply.

### 11.2.2 Class Diagram



### 11.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
Sales Quotation Id		Non Editable		Integer	Auto Incremented
Customer Id	Drop Down	Editable	Yes	integer	List of all Customer is displayed in the DropDown List while the Underlying Value Customer ID will be stored in the Database
EnquiryDate	Text box	Editable	Yes	Date Time	Current Date
Comments	Text Box	Editable	No	string	Example: Comment on particular item like Needed high Quality Screw Jacks etc
SalesQuotationHeader	Text Area	Editable	No	string	Note to the customer...
SalesQuotationFooter	Text Area	Editable	No	string	Note to the customer...
SalesQuotationNo			No	String	Will be generated for this enquiry by the System VAT/SQT/2005-06/00001
Packing Charges	Text Box	Editable	No	Decimal	

Shipping Charges	Text Box	Editable	No	Decimal	
Insurance Amount	Text Box	Editable	No	Decimal	
Delivery INST	Text Box	Editable	No	String	
Term of Delivery	Text Box	Editable	No	String	
Mode of Despatch	Text Box	Editable	No	String	Air, Ship
Packing INST	Text Box	Editable	No	String	
Payment Terms	Text Box	Editable	No	String	
<b>Item Details</b>					
ItemNo	Label	Non Editable	No	String	All the Items which are required by the Customer
QuantityQuoted	Text Box	Editable	Yes	Decimal	Quantity as Quoted by the Customer
QuantityUnit	Text Box	Editable	Yes	Integer	Dozens, meters
Discount	Text Box	Editable	No	Decimal	
Item Comments	Text Box	Editable	Yes	String	High Speed steel screws etc
Item Total Amount	Text Box	Editable	Yes	Decimal	QuantityQuoted*QuantityUnit*ItemRate-Discount
Total Amount	Text Box	Non Editable	Yes	Decimal	Item Total Amount+PackingCharges+ShippingCharges+InsuranceAmount

#### **11.2.4 Explanatory Notes**

This page fetches all the details which are necessary for making a Sales Quotation. All the Customers are listed in DropDown List. Once a particular Customer is selected from the DropDown all the Items which the Customer needs will be made available in a Popup screen. Items are selected from this popup and provision is provided for entering the quantity required for each item. A Sales Quotation Number is VAT/SQT/2005-06/00001 generated which is unique and this transaction will have an initial SalesQuotationStatus as 'P' (pending).

#### **11.2.5 Functions and Buttons**

##### **11.2.5.1 Save – Saves the Transaction after passing the following validations**

Item Quantity should be decimal values and Date should be current date.

##### **11.2.5.2 Delete**

Sales Quotation will be deleted.

#### **11.2.6 Post Condition**

A SalesQuotation is made for particular items with the Quantities specified.

## 12 Sales Order

### 12.1 Purpose

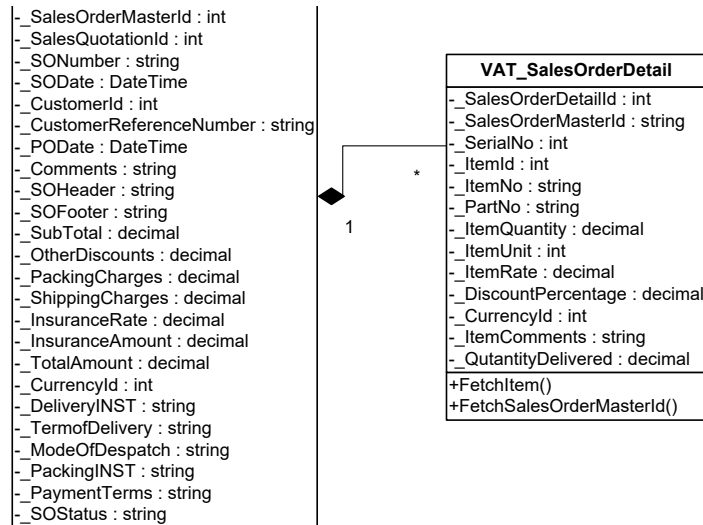
A Sales Order is made corresponding to the Purchase Enquiry Number.

### 12.2 Sales Order

#### 12.2.1 Pre Requisites

Customer Code should be made available in DropDown along with all the Pending Sales Quotations .

#### 12.2.2 Class Diagram



#### 12.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
SOMaster Id		Non Editable		Integer	Auto Incremented
Customer Code	Drop Down	Editable	Yes	string	List of all Customer Code is displayed in the DropDown List while the Underlying Value Customer ID will be stored in the Database
SalesQuotationMaster	Drop Down	Editable	Yes	String	All the Pending Sales Quotation for that particular Customer will be displayed.
SO Date	Text Box	Editable	No	Datetime	Current Date
SOHeader	Text Area	Editable	No	string	Note to the Customer...

SOFooter	Text Area	Editable	No	string	Note to the Customer...
SONo			No	String	Will be generated for this Order by the System VAT/SO/2005-06/00001
Item Details					
Item No	Label	Non Editable	No	Integer	Item Name is Displayed but the corresponding Item Id will be stored in the DataBase
Item Quantity	Text Box	Editable	Yes	Decimal	27.00
Item Unit	Text Box	Editable	Yes	Integer	Item Unit may be Dozens, metres
Item Rate	Text Box	Editable	Yes	Decimal	20.00
Discount Percentage	Text Box	Editable	No	Decimal	1%
Item Comments	Text Box	Editable	Yes	String	High speed steel
SubTotal	Text Box	Editable	No	Decimal	ItemQuantity*ItemUnit*ItemRate-Discout Percentage
Other Dicsounts	Text Box	Editable	No	Decimal	
Packing Charges	Text Box	Editable	No	Decimal	
Shipping Charges	Text Box	Editable	No	Decimal	
Insurance Amount	Text Box	Editable	No	Decimal	
Delivery INST	Text Box	Editable	No	String	
Term of Delivery	Text Box	Editable	No	String	
Mode of Despatch	Text Box	Editable	No	String	Air, Ship
Packing INST	Text Box	Editable	No	String	
Payment Terms	Text Box	Editable	No	String	
Packing Charges	Text Box	Editable	No	Decimal	
Shipping Charges	Text Box	Editable	No	Decimal	
Insurance Amount	Text Box	Editable	No	Decimal	
Delivery INST	Text Box	Editable	No	String	
Term of Delivery	Text Box	Editable	No	String	
Mode of Despatch	Text Box	Editable	No	String	Air, Ship
Packing INST	Text Box	Editable	No	String	
Total Amount	Text box	Editable	No	Decimal	SubTotal+Packing Charges+Shipping Charges+Insurance Amount



#### **12.2.4 Explanatory Notes**

This page fetches all the details which are necessary for making a Sales Order. All the Customers are listed in DropDown List. Once a particular Customer is selected from the DropDown all the Pending Sales Quotations for that customer are displayed in a Drop Down. Once the Sales Order is selected from the DropDown all the Items pertaining to the Sales Quotation are displayed in grid and provision is provided for the user to enter the Item Comments, Items Cost, Item Quantity and required Quantity. Once an Order is made the Sales Quotation will no longer be available for that particular Customer subsequently the Sales Quotation will not be available for selection from the Drop Down and the SalesQuotationMaster table will be updated with SalesQuotationStatus as 'S' and SalesOrderMaster table will be update with SOStatus as 'P'.

#### **12.2.5 Functions and Buttons**

##### **12.2.5.1 Save – Saves the Transaction after passing the following validations**

Sales Order is made against the selected Sales Quotation to the Customer and Item Ordered Quantity and Item Rate is checked for decimal values.

##### **12.2.5.2 Delete**

Sales Order will be deleted and the equivalent Sales Quotation status will be 'D'

#### **12.2.6 Post Condition**

A Sales Order is made for particular items with the Quantities and Rate specified and will the shipment and Bank Account details.

## **13 Delivery Note**

### **13.1 Purpose**

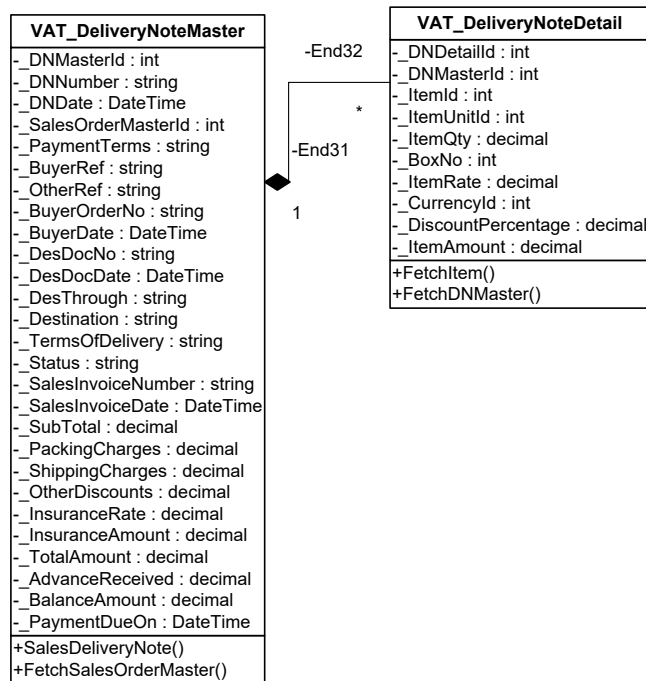
On the receipt of Ordered Items from a Customer the Delivery Note is generated based on the conditions of the delivered items.

### **13.2 Material Receipt**

#### **13.2.1 Pre Requisites**

Sales Order should have been made and SO is available in the Drop Down for which a Delivery Note has to be generated.

### 13.2.2 Class Diagram



### 13.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
DNMaster Id		Non Editable		Integer	Auto Incremented
DNNumber		Non Editable	No	string	System generated
DN Date	Text Box	Editable	No	Datetime	Current Date
SalesOrderMasterId	Drop Down	Editable	Yes	Integer	All the Sales Order will be displayed
<b>Details Pertaining to Sales Order Items</b>					
Serial No	Label	Non Editable	No	Integer	1,2,3,4,5
Item Id	Label	Non Editable	No	Integer	Item Name will be displayed but Item Id will stored in the Database
Item UnitId	Text Box	Editable	Yes	Integer	Item Unit Name will be displayed box,meters and subsequent underlying value will be stored in the Database
Item Quantity	Text Box	Editable	Yes	Decimal	19.00
Item Rate	Text Box	Editable	Yes	Decimal	18.00
Discount Percentage	Text Box	Editable	No	Decimal	1%

Item Amount	Text Box	Editable	Yes	Decimal	ItemUnit*ItemRate-Discount Percentage
<b>Specific to Delivery Note</b>					
Buyer Ref	Text Box	Editable	No	String	
Other Ref	Text Box	Editable	No	String	
Buyer Order No	Text Box	Editable	No	String	
Buyer Date	Text Box	Editable	No	Date Time	
Terms of Delivery	Text Box	Editable	No	string	

#### **13.2.4 Explanatory Notes**

This page fetches all the details which are necessary for making a Delivery Note. Once a Sales Order is selected from the Drop Down all the Ordered Items are displayed in grid and text boxes are available against each item. The user can insert the Item Quantity and Item Rate in the text box and Amount will be calculated only for the Accepted Quantities. SOSStatus in the SalesOrder table is updated as 'S'

#### **13.2.5 Functions and Buttons**

##### **13.2.5.1 Save – Saves the Transaction after passing the following validations**

Delivery Note is generated and the Ordered Quantity and Item Rate are checked for decimal values.

##### **13.2.5.2 Delete**

Delivery Note will be deleted and the SOSStatus in the SalesOrder table is updated as 'D'

#### **13.2.6 Post Condition**

A Delivery Note is made for particular item specified in Sales Order.

## **14 Invoice**

### **14.1 Purpose**

On the Delivery Note is generated based on the conditions of the delivered items and Invoice is generated for the same.

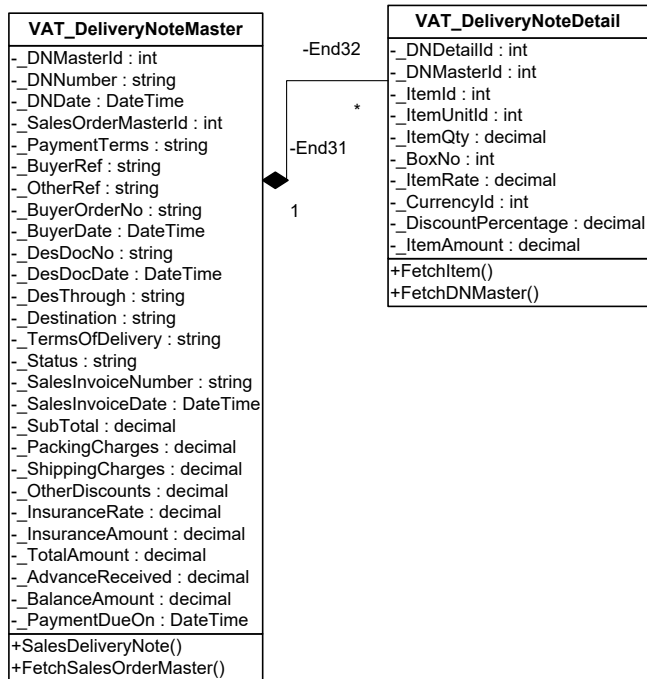
### **14.2 Invoice**

#### **14.2.1 Pre Requisites**

Delivery Note should have been made and Delivery Note is available in the Drop Down for which Invoice has to be generated.

#### **14.2.2 Class Diagram**

The same Class is used as that of Delivery Note.



### 14.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
DNMaster Id		Non Editable		Integer	Auto Incremented
DNNo	Drop Down	Editable	Yes	string	System generated
DNDate	Text Box	Editable	No	Datetime	Current Date
Sales Invoice Number	Label	Non Editable	No	String	Sales Invoice Number will be generated for that particular Delivery Note
Sales Invoice Date	Label	Non Editable	No	Date Time	Current Date
Payment Status	Text Box	Editable	Yes	String	Cash/Cheque
Payment Due Date On	Text Box	Editable	Yes	Date Time	Date before which all the Payments will be made for the Invoice
SubTotal	Text Box	Non Editable	No	Decimal	Number of Items * Rate Per Item
Packing Charges	Text Box	Editable	No	Decimal	Packing charges incurred
Shipping Charges	Text Box	Editable	No	Decimal	Shipping charges incurred
Other Discount	Text Box	Editable	No	Decimal	Discounts if applicable
Insurance Amount	Text Box	Editable	No	Decimal	Insurance Amount

Total Amount	Text Box	Editable	Yes	Decimal	SubTotal+Packing+Shipping+Insurance-Discout
Advance Received	Text Box	Editable	No	Decimal	Amount
Balance Amount	Text Box	Non Editable	No	Decimal	TotalAmount=Advance Received
Payment Due On	Text Box	Editable	Yes	Date Time	Payment due date

#### **14.2.4 Explanatory Notes**

This page fetches all the details which are necessary for making a Sales Invoice. Once a Delivery Note is selected Sales Invoice Number is generated and the total Invoice Amount is calculated.

#### **14.2.5 Functions and Buttons**

##### **14.2.5.1 Save – Saves the Transaction after passing the following validations**

Sales Invoice is generated for the Delivery Note. And Payment Status should be by Cheque or Cash and Payment Due Date should be greater than Current Date.

##### **14.2.5.2 Delete**

Delivery Note Status in the Delivery Note table will be updated as 'D'.

#### **14.2.6 Post Condition**

Sales Invoice No is generated with all the necessary Payment details.

## **15 Payment**

### **15.1 Purpose**

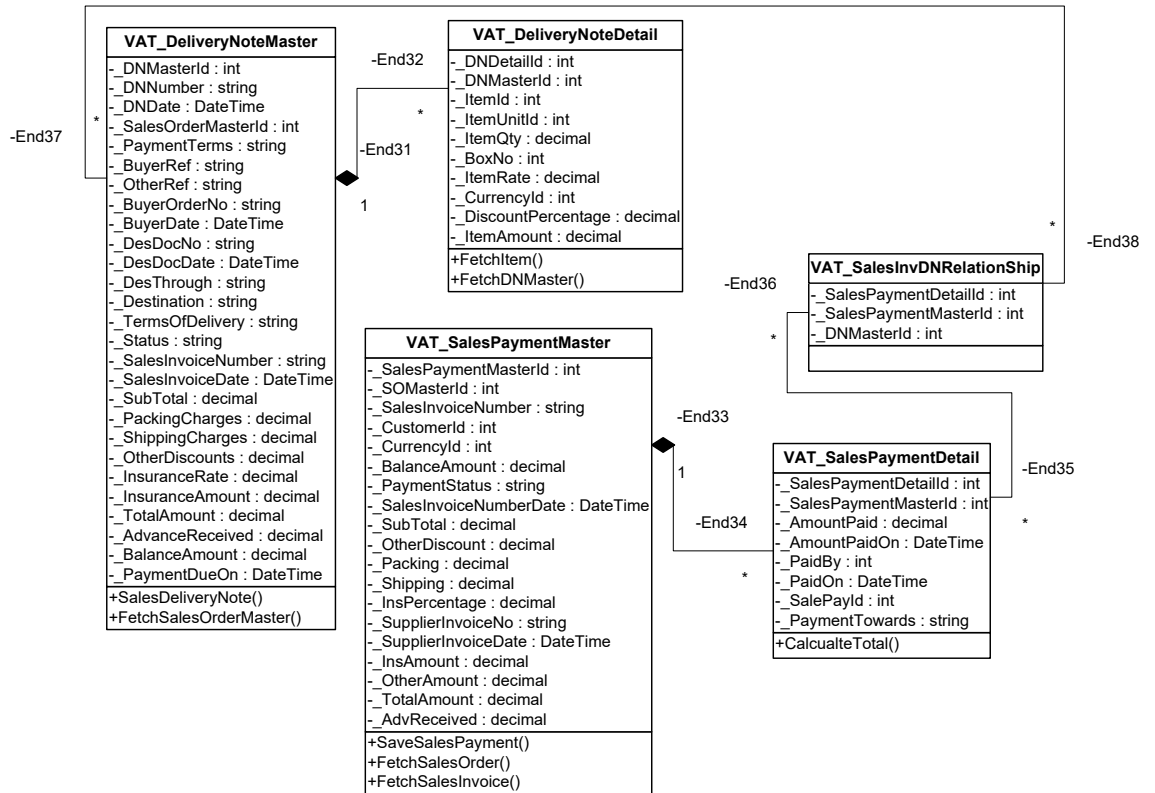
The Payment for the Sales Invoice generated will be made through this transaction.

### **15.2 Payment**

#### **15.2.1 Pre Requisites**

Sales Invoice Number will be made available in the Drop Down for which the Payment is pending.

#### **15.2.2 Class Diagram**



### 15.2.3 Page Field descriptions

Label	Field Type	State	Mandatory	Data Type	Description and Possible List Values
SalesPayment MasterId		Non Editable		Integer	Auto Incremented
SOMasterId		Non Editable	No	string	Sales Order Number of the selected Sales Invoice Number
Sales Invoice No	Drop Down	Editable	Yes	String	List of all Sales Invoice for which Payment is pending
CustomerId	Label	Non Editable	No	String	Name of the Customer related with Sales Order
Total Amount	Text Box	Non Editable	No	String	Total Invoice Amount
Payment Status	Text Box	Editable	Yes	String	Cash/Cheque
Sales Invoice Date	Label	Non Editable	No	Date Time	Date on which the Sales Invoice was generated
SupplierInvoiceNumber	Label	Non Editable	No	String	System Generated based on the Delivery Note
SupplierInvoiceDate	Label	Non Editable	No	Date Time	Default Current Date
Other Amount	Text Box	Editable	Yes	Decimal	
Total Amount	Text Box	Editable	Yes	Decimal	SubTotal+Packing+Shipping+Insurance-Discout
Advance Received	Text Box	Editable	No	Decimal	Amount
<b>Details Table</b>					
SalesPayment MasterId		Non Editable		Integer	Auto Incremented
SalesPayment Detailld		Non Editable		Integer	Auto Incremented
Amount Paid	Text Box	Editable	Yes	Decimal	Amount paid against the Purchase Invoice
Amount Paid On	Text Box	Editable	Yes	Decimal	Date of Payment(Default Current Date)
Paid By	Text Box	Editable	Yes	string	
Paid On	Text Box	Editable	Yes	Date Time	Default Current Date

### 15.2.4 Explanatory Notes

This page fetches all the details which are necessary for making a Sales Payment. Once a Sales Invoice is selected from the Drop Down all the payment details are made available with provision for entering the Amount, Payment Date and Paid By and Paid On details. Partial Payments can be made for a Purchase Invoice and provision is also provided for making payments for multiple Sales Invoices

### 15.2.5 Functions and Buttons

#### 15.2.5.1 Save – Saves the Transaction after passing the following validations

Amount Paid will be saved in the Database for the Sales Invoice for the corresponding Purchase Invoice.

#### 15.2.5.2 Delete

Sales Payment will be deleted and the Status in the Delivery Note table is updated as 'D'

### 15.2.6 Post Condition

Payment Amount will be updated in the Purchase Payment Detail table against the corresponding Sales Payment Number

## 16 Inventory Master

### 16.1 Purpose

1. Through the Item Master Page the Inventory Log is updated. Based on each and every transaction the Item stock is incremented or decremented.

### 16.2 Inventory Master

#### 16.2.1 Pre Requisites

Items should be available in the Item Master before associating a supplier with the items which the supplier is going to supply.

#### 16.2.2 Class Diagram

