ERP System for an Electronics & Computer Accessories Shop

Enterprise resource planning (ERP) refers to a type of software that organizations use to manage day-to-day business activities such as accounting, procurement, project management, risk management and compliance, and supply chain operations. A complete ERP suite also includes enterprise performance management, software that helps plan, budget, predict, and report on an organization’s financial results.

ERP systems tie together a multitude of business processes and enable the flow of data between them. By collecting an organization’s shared transactional data from multiple sources, ERP systems eliminate data duplication and provide data integrity with a single source of truth.

A business process can be thought of as a collection of activities happening in an enterprise during the day to day functioning.

Through these business processes, enterprises achieve their objectives.

The below are the important Business processes occur in an Electronics & Computer Accessories Shop

1. **Purchase**: It includes all the activities of buying Items, suppliers, Inspection team, payment, etc

In this ERP, Purchase consists of

1. Purchase Table:

|  |
| --- |
| Purchase |
| Purchase ID |
| Purchase Type |
| Supplier ID |
| Payment\_ID |
| Inspection\_ID |
| InventoryID |
| Invoice\_ID |
| Customer\_ID |

1. Supplier Master:

|  |
| --- |
| Supplier Master |
| Supplier ID |
| Quantity |
| Total |

1. Supplier:

|  |
| --- |
| Supplier |
| ID |
| Address |
| Contact |
| Name |
| Cost |
| Discount |
| inhouse Supplier |

1. Item Master:

|  |
| --- |
| Item Master |
| Item\_ID |
| Name |
| Quantity |
| Cost |
| Total |

|  |
| --- |
| Payment |
| Payment\_ID |
| Mode |
| Interval |
| Purchase Id |
| Total |

1. Payment:

1. Inspection:

|  |
| --- |
| Inspection |
| Inspection\_ID |
| Type |
| Inspection\_Report |
| Date |
| Team\_ID |
| Status |

1. Inspection Team

|  |
| --- |
| Inspection Team |
| Team\_ID |
| Type |
| Members |

1. **Inventory**: Electronic Shop Inventory Project provides information on each and every product which is available within the store. Its basic purpose is to maintain stock details and inform on time, if any product is going out of stock along with various other information related to its sources. Stock information maintenance is a complex task and requires frequent update. If the stock details of the stores/shops will not be accurate, then there will a huge loss of money and market value and bad impression among customers in this competitive world.

In this ERP, Inventory consist of

1. Inventory:

|  |
| --- |
| Inventory |
| Inventory\_ID |
| Name |
| Address |

1. Items:

|  |
| --- |
| Items |
| Item\_ID |
| Quantity |
| Re-Order Level |
| Purchase\_Date |
| Item\_Location |
| Type |

|  |
| --- |
| Expired Items |
| Id |
| Name |
| Quantity |
| Date |

1. Expired Items:
2. Dead Stock

|  |
| --- |
| Dead Stock |
| DS\_ID |
| Name |
| Qyantity |

1. Access:

|  |
| --- |
| Access |
| Acess\_ID |
| Type |
| Date |
| Level |

1. **Sales**: Sales in ERP specifies the relationship with the customers.

In this ERP, Sales consist of

1. Customer:

|  |
| --- |
| Customer |
| Cust\_ID |
| Name |
| Address |
| Contact No |
| Email |
| Type(Fixed/Ad Hoc) |
| City |
| State |
| Zip |

1. Payment:

|  |
| --- |
| Payment |
| Payment\_ID |
| Mode |
| Date |

1. Complaints:

|  |
| --- |
| Complaints |
| Complaint\_ID |
| Type |
| Complaint |
| Status |

|  |
| --- |
| Warranty |
| Warranty\_ID |
| Item\_ID |
| Date\_Of\_manufacture |

1. Warranty:
2. Shipment Details:

|  |
| --- |
| Shipment Details |
| ID |
| Items\_ID |
| Address |
| Quantity |
| Cost |
| Total Cost |
| Payment\_ID |
| Customer\_ID |

1. **Payables**: It deals with all the invoice details of the shop.

In this ERP, Payables consist of

1. Invoices:

|  |
| --- |
| Invoice |
| Invoice\_ID |
| Date |
| Cust\_ID |
| Due\_Date |
| Detail\_ID |
| Total Quantity |
| Total Cost |
| Purchase\_ID |

1. Invoice Details:

|  |
| --- |
| Invoice\_Details |
| Detail\_ID |
| Unit\_price |
| Quantity |
| Total |

**Connectivity**

From all the above Business processes i.e. Purchase, Sales, Inventory and Payables.

Every process has a connectivity to Purchase, So Purchase becomes the main element of this ERP as every other process is linked to this and forms a relationship as below.