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LIST OF ACRONYMS

Sl.no	Acronym s	Expansion	
1.	DBMS	Database Management System	
2.	SQL	Structure Query Language	
3.	PHP	Hypertext Preprocessor	
4.	HTML	Hypertext Markup Language	
5.	CSS	Cascading Style Sheet	
6.	ER Diagram	Entity Relationship Diagram	

INTRODUCTION

1.1 INTRODUCTION

The Inventory Management System has been developed to override the problemsprevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. It can assist the user to concentrate ontheir other activities rather to concentrate on the record keeping. Thus it will help organization better utilization of resources.

Every organization whether big or small, has challenges to overcome and managing theinformation of Vendor, Inventory, Cost, Delivery, Order. Every Inventory Management System has different Inventory needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and help you to ensure that your organization is equipped with the right level of information and for those busy executive who are always on the go, our systems comewith remote access features. These systems ultimately allow you to better manage resources.

1.2 DBMS (DATABASE MANAGEMENT SYSTEM)

Database is a collection of related data and data is a collection of facts and figures that can be processed to produce information. Mostly data represents recordable facts. Data aids in producing information, which is based on facts. For example, if we have data about marks obtained by all students, we can then conclude about toppers and average marks.

A database management system (DBMS) is a software package designed to define, manipulate, retrieve and manage data in a database. A DBMS generally manipulates the data itself, the data format, field names, record structure and file structure. It also defines rules to validate and manipulate this data.

A DBMS relieves users of framing programs for data maintenance. Fourth- generation query languages, such as SQL, are used along with the DBMS package to interact with a database. Some other DBMS examples include:

- 1.2.1 MySQL
- 1.2.2 SQL Server
- 1.2.3 Oracle
- 1.2.4 dBASE
- 1.2.5 FoxPro

1.3 PHP (HYPERTEXT PREPROCESSOR)

PHP is the most popular and widely used server-side scripting language for web development. It is used to make the Dynamic pages in websites. Rasmus LerdorfT was the creator of PHP in 1995. PHP codes are embedding in HTML source codes for making the page dynamic. PHP can deal with most of the requirements in web development like Database, File handling, String operations, Arrays, Graphics, File Uploads, Data processing etc. PHP can be used in any operating system with a web server Supports PHP. Apache web server is one of the popular web servers dealing with PHP + MySQL. Moreover, PHP is absolutely free to use.

1.4 PROBLEM STATEMENT

The Problem faced by the company is they do not have any systematic system to record and keep their inventory data. It is difficult for the admin to record the inventory data quickly andsafely because they only keep it in the logbook and not properly organized.

1.5 OBJECTIVES

The objective of the project is to deliver an efficient inventory management system whose main functionality apart from calculating the inventory include predicting the requirement forthe next demand and if there is a "Special Occasion" then accordingly the manager selects the particular occasion and extra requirements are added to the next issuing order to the vendors which needs to be approved by the manager.

The product also aims to keep track of the shelf life of resources. If any resource nears the end of its shelf life, it would acknowledge to the manager (admin) the details of the quantity that is near its expiration date.

REQUIREMENT SPECIFICATION

2.1 HARWARE REQUIREMENTS

The hardware required for the development of this project is:

• Processor : Intel Core i7

• Processor speed : 2.4 GHz

• RAM : 8 GB RAM

• System Type : 64-Bit Operating System

2.2 SOFTWARE REQUIREMENTS

The software required for the development of this project is:

• Software : MySQL and xampp.

• OS : Windows 7 and above

• Front End : HTML, CSS, jQuery and JavaScript.

• Programming Language : Php and SQL

• Database : MySQL

DESIGNS

3.1 ENTITY RELATIONSHIP DIAGRAM

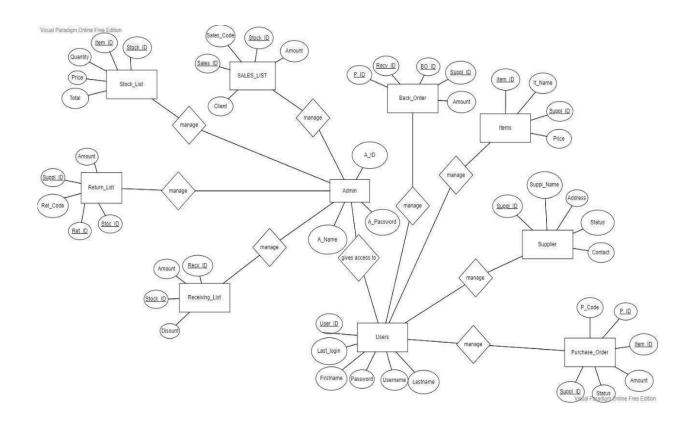


Fig 3.1 Entity Relation Diagram for Inventory Management System

3.2 DESCRIPTION

The ER Model figure shows conceptual view of the database. It works around real-world entities and the associations among them. At view level, the ER model is considered a good option for designing databases. So, let's see each entity:

ADMIN TABLE

This entity stores the information about admin who logs in using his username and password .And can add users.

USER TABLE

This entity stores the information about users who are added by the admin. Attributes are user id, firstname, lastname, username, password, last login.

PURCHASE ORDER TABLE

This entity stores the information about the purchase made by the Admin or Staff. Attributes are p id, p code, suppl id, status, amount and item id.

SUPPLIER TABLE

This entity stores information about suppliers who supplies bulk goods to the Inventory. Attributes are suppl id, suppl name, contact, status and address.

RECEIVING LIST TABLE

This entity stores records for the bulk goods received by the Suppliers. Attributes are recv_id, amount, discount, stock_id.

ITEMS TABLE

This entity stores the records and details about the items. Attributes are item_id, it_name, suppl_id, price.

BACK ORDER TABLE

This entity records the details about goods which are partially received from the suppliers. Attributes are bo id, recv id, p id, bo code, suppl id, amount and status.

RETURN LIST TABLE

This entity stores the details about the goods which are returned back to the supplier due tovarious reasons. Attributes are ret_id, ret_code, suppl_id, stock_id, and amount.

STOCK LIST TABLE

This entity contains the records about the goods currently in Inventory . Attributes are stock_id, item_id, quantity, units, cost and total amount.

SALES LIST TABLE

This table records the goods of the Inventory which are available for Sale for clients. Attributes are sales id, sales code, stock id, clients and amount.

3.3 SEVEN STEPS FOR ER TO SCHEMA CONVERSION

Step 1: Mapping of Regular Entity Types.

For each regular (strong) entity type E in the ER schema, create a relation R that includes all the simple attributes of E. Include only the simple component attributes of a composite attribute. Choose one of the key attributes of E as the primary key for R. If the chosen key of E is a composite, then the set of simple attributes that form it will together form the primary key of R. If multiple keys were identified for E during the conceptual design, the information describing the attributes that form each additional key is kept in order to specify secondary (unique) keys of relation R. Knowledge about keys is also kept for indexing purposes and other types of analyses.

Step 2: Mapping of Weak Entity Types.

For each weak entity type W in the ER schema with owner entity type E, create a relation R and include all simple attributes (or simple components of composite attributes) of was attributes of R. In addition, include as foreign key attributes of R, the primary key attribute(s) of the relation(s) that correspond to the owner entity type(s); this takes care of mapping the identifying relationship type of W. The primary key of R is the combination of the primary key(s) of the owner(s) and the partial key of the weak entity type W, if any. If there is a weak entity type E2 whose owner is also a weak entity type E1, then E1 should be mapped before E2 to determine its primary key first.

Step 3: Mapping of Binary1:1 Relationship Types.

For each binary 1:1 relationship type R in the ER schema, identify the relations S and T that correspond to the entity types participating in R. There are three possible approaches:

- 1. The foreign key approach.
- 2. The merged relationship approach, and

The first approach is the most useful and should be followed unless special conditions exist, as we discuss below.

1. Foreign key approach:

Choose one of the relations—S, say—and include as a foreign key in S the primary key of T. It is better to choose an entity type with total participation in R in the role of S. Include all the simple attributes (or simple components of composite attributes) of the 1:1 relationship type R as attributes of S.

2. Merged relation approach:

An alternative mapping of a 1:1 relationship type is to merge the two entity types and the relationship into a single relation. This is possible when both participations are total, as this would indicate that the two tables will have the exact same number of tuples at all times.

3. Cross-reference or relationship relation approach:

The third option is to set up a third relation R for the purpose of cross-referencing the primary keys of the two relations S and T representing the entity types. As we will see, this approach is required for binary M: N relationships. The relation R is called a relationship relation (or sometimes a lookup table), because each tuple in R represents a relationship instance that relates one tuple from S with one tuple from T. The relation R will include the primary key attributes of S and T as foreignkeys to S and T. The primary key of R will be one of the two foreign keys, and the other foreign key will be a unique key of R. The drawback is having an extra relation, and requiring an extra join operation when combining related tuples from the tables.

Step 4: Mapping of Binary 1: N Relationship Types.

For each regular binary 1: N relationship type R, identify the relation S that represents the participating entity type at the N-side of the relationship type. Include as foreign key in S the primary key of the relation T that represents the other entity type participating in R; we do this because each entity instance on the N-side is related to at most one entity instance on the 1-side of the relationship type. Include any simple attributes (or simple components of composite attributes) of the 1: N relationship type as attributes of S.

Step 5: Mapping of Binary M: N Relationship Types.

For each binary M: N relationship type R, create a new relation S to represent R. Include as foreign key attributes in S the primary keys of the relations that represent the participating entity types; their combination will form the primary key of S. Also include any simple attributes of the M: N relationship type (or simple components of composite attributes) as attributes of S.

Notice that we cannot represent an M: N relationship type by a single foreign key attribute in one of the participating relations (as we did for 1:1 or 1: N relationship types) because of the M: N cardinality ratio; we must create a separate relationship relation S.

Step 6: Mapping of Multivalued Attributes.

For each multivalued attribute A, create a new relation R. This relation R will include an attribute corresponding to A, plus the primary key attribute K—as a foreign key in R—of the relation that represents the entity type or relationship type that has A as a multivalued attribute. The primary key of R is the combination of A and K. If the multivalued attribute is composite, we include its simple components.

Step 7: Mapping of N-array Relationship Types.

For each n-array relationship type R, where n > 2, create a new relation S to represent R. Include as foreign key attributes in S the primary keys of the relations that represent the participating entity types. Also include any simple attributes of the n-array relationship type (or simple components of composite attributes) as attributes of S. The primary key of S is usually a combination of all the foreign keys that reference the relations representing the participating entity types. However, if the cardinality constraints on any of the entity types E participating in R is 1, then the primary key of should not include the foreign key attribute that references therelation E 'corresponding to E.

3.4 Schema Diagram

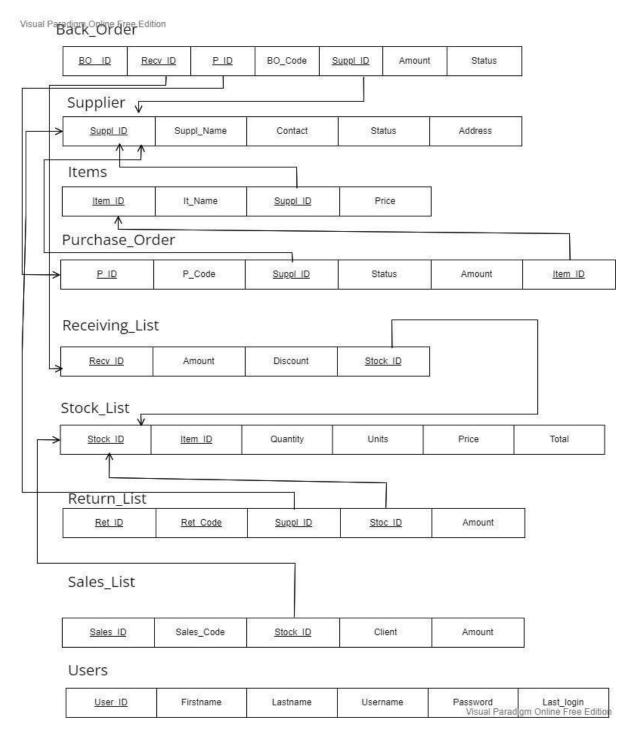


Fig 3.4 Schema Diagram

3.5 Database Description

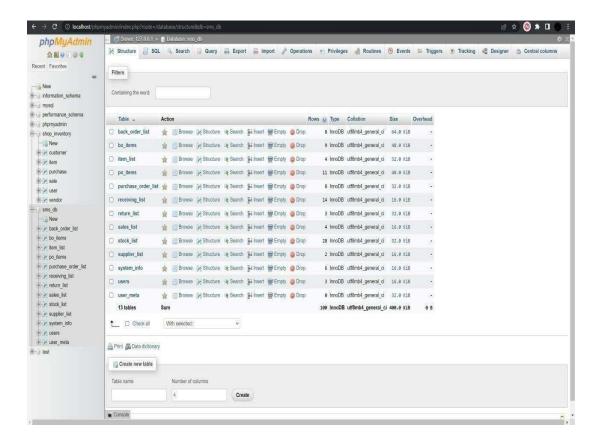


Table 3.5: Description of inventory database

IMPLEMENTATION CODE

4.1 Connection code for front end and back end:

```
<?php define('DB_SERVER','localhost');define('DB_USER','root');define('DB_PASS','');
define('DB_NAME','sms');
$con = mysqli_connect(DB_SERVER,DB_USER,DB_PASS,DB_NAME);
// Check connection
if (mysqli_connect_errno())
{
    echo "Failed to connect to MySQL: ". mysqli_connect_error();
}
?>
```

42 SQL Statements: Create commands:

CREATE TABLE 'back_order_list' ('id' int(30) NOT NULL, 'receiving_id' int(30) NOT NULL, 'po_id' int(30) NOT NULL, 'bo_code' varchar(50) NOT NULL, 'supplier_id' int(30) NOT NULL, 'amount' float NOT NULL, 'discount_perc' float NOT NULL DEFAULT 0, 'discount' float NOT NULL DEFAULT 0, 'tax_perc' float NOT NULL DEFAULT 0, 'tax' float NOT NULL DEFAULT 0, 'remarks' text DEFAULT NULL, 'status' tinyint(4) NOT NULL DEFAULT 0 COMMENT '0 = pending, 1 = partially received, 2 =received', 'date_created' datetime NOT NULL DEFAULT current_timestamp(), 'date_updated' datetime NOT NULL DEFAULT current_timestamp() ONUPDATEcurrent_timestamp()) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4; CREATE TABLE 'bo_items' ('bo_id' int(30) NOT NULL, 'price' float NOT NULL DEFAULT 0, 'unit' varchar(50) NOT NULL, 'total' float NOT NULL DEFAULT 0) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `item_list`, `id` int(30) NOT NULL, `name` text NOT NULL, `description` text NOT NULL, `supplier_id` int(30) NOT NULL, `cost` float NOT NULL DEFAULT 0` status` tinyint(1) NOT NULL DEFAULT 1, `date_created` datetime NOT NULL DEFAULT current_timestamp(), `date_updated` datetime NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp() ENGINE=InnoDB DEFAULT CHARSET=utf8mb4; CREATE TABLE `po_items` (`po_id` int(30) NOT NULL, `item_id` int(30) NOT NULL, `quantity` int(30) NOT NULL, `price` float NOT NULL DEFAULT 0, `unit` varchar(50) NOT NULL, `total` float NOT NULL DEFAULT 0) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE 'purchase order list' ('id' int(30) NOT NULL, 'po code' varchar(50) NOTNULL, 'supplier id' int(30) NOT NULL, 'amount' float NOT NULL, 'discount perc' float NOT NULL DEFAULT 0, 'discount' float NOT NULL DEFAULT 0, 'tax perc' float NOT NULL DEFAULT 0, 'tax' float NOT NULL DEFAULT 0, 'remarks' textNOT NULL, 'status' tinyint(4) NOT NULL DEFAULT 0 COMMENT '0 = pending, 1 = partially received, 2 = received', 'date created' datetime NOT NULL DEFAULT current timestamp(), 'date updated' datetime NOT NULL DEFAULT current timestamp() ON UPDATEcurrent timestamp()) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4; CREATE TABLE 'receiving list' ('id' int(30) NOT NULL, form id int(30) NOT NULL, from order tinyint(1) NOT NULL DEFAULT 1 COMMENT '1=PO, 2 = BO', 'amount' float NOT NULL DEFAULT 0, 'discount perc' float NOT NULL DEFAULT 0, 'discount' float NOT NULL DEFAULT 0, 'tax perc' float NOT NULL DEFAULT 0, 'tax' float NOT NULL DEFAULT 0, 'stock ids' text DEFAULT NULL, 'remarks' text DEFAULTNULL, 'date created' datetime NOT NULL DEFAULT current timestamp(), 'date updated' datetime NOT NULL DEFAULT current timestamp() ON UPDATE current timestamp()) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE 'return_list' ('id' int(30) NOT NULL, 'return_code' varchar(50) NOT NULL, 'supplier_id' int(30) NOT NULL 'amount' float NOT NULL DEFAULT 0, 'remarks' text DEFAULT NULL, 'stock_ids' text NOT NULL, 'date_created' datetime NOT NULL DEFAULT current_timestamp(), 'date_updated' datetime NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp()) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE 'sales list' ('id' int(30) NOT NULL, 'sales code' varchar(50) NOT NULL, 'client' text DEFAULT NULL, 'amount' float NOT NULL DEFAULT 0, 'remarks' textDEFAULT NULL, 'stock ids' text NOT NULL, 'date created' datetime NOT NULL DEFAULT current timestamp(), 'date updated' datetime NOT NULL DEFAULT current timestamp() ON UPDATE current timestamp()) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE 'stock list' ('id' int(30) NOT NULL, 'item id' int(30) NOT NULL, 'quantity' int(30) NOT NULL, 'unit' varchar(250) DEFAULT NULL, 'price' float NOT NULLDEFAULT 0, 'total' float NOT NULL DEFAULT current timestamp(), 'type' tinyint(1) NOT NULL DEFAULT 1 COMMENT '1=IN, 2=OUT', 'date created' datetime NOT NULL DEFAULT current timestamp()) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE 'supplier list' ('id' int(30) NOT NULL, 'name' text NOT NULL, 'address' text NOT NULL, 'cperson' text NOT NULL, 'contact' text NOT NULL, 'status' tinyint(1) NOT NULL DEFAULT 1, 'date created' datetim NOT NULL DEFAULTcurrent timestamp(), 'date updated' datetime NOT NULL DEFAULT current timestamp() ON UPDATE current timestamp())ENGINE=InnoDB DEFAULT CHARSET=utf8mb4; CREATETABLE 'system info' ('id' int(30) NOT NULL, 'meta field' text NOTNULL, 'meta value' text NOT

NULL)ENGINE=InnoDBDEFAULTCHARSET=utf8mb4;

CREATETABLE'users' ('id'int(50) NOT NULL, 'firstname'varchar(250) NOT NULL, 'middlename' text DEFAULT NULL, 'lastname' varchar(250) Not NULL, 'username' text NOT NULL, 'password' text NOT NULL, 'avatar' text DEFAULT NULL, 'last login' datetime DEFAULT NULL, 'type' tinyint(1) NOT NULL DEFAULT 0, 'date added' datetimeNOT NULL DEFAULT current timestamp(), 'date updated' datetime DEFAULT NULL ON

UPDATEcurrent timestamp())ENGINE=InnoDBDEFAULTCHARSET=utf8mb4; CREATE TABLE 'user meta' ('user id' int(30) NOT NULL, 'meta field' text NOT NULL, 'meta value' text NOT NULL, 'date created' datetime NOT NULL DEFAULT current timestamp())ENGINE=InnoDBDEFAULTCHARSET=utf8mb;

Insert commands:

```
INSERT INTO 'back order list' ('id', 'receiving id', 'po id', 'bo code', 'supplier id',
'amount', 'discount perc', 'discount', 'tax perc', 'tax', 'remarks', 'status' date created',
'date updated') VALUES(1, 1, 1, 'BO-0001', 1, 40740, 3, 1125, 12, 4365, NULL, 1,
'2021-11-03 11:20:38', '2021-11-03 11:20:51'),(2, 2, 1, 'BO-0002', 1, 20370, 3, 562.5, 12,
2182.5, NULL, 2, '2021-11-03 11:20:51', '2021-11-03 11:21:00'), (3, 4, 2, 'BO-0003', 2,
42826, 5,2012.5, 12, 4588.5, NULL, 1, '2021-11-03 11:51:41', '2021-11-03 11:52:02'),(4,
5, 2, 'BO-0004', 2, 10640, 5, 500, 12, 1140, NULL, 2, '2021-11-03 11:52:02', '2021-11-
03 11:52:15');
INSERT INTO 'bo items' ('bo id', 'item id', 'quantity', 'price', 'unit', 'total')
VALUES(1,1, 250, 150, 'pcs', 37500),(2, 1, 125, 150, 'pcs', 18750),(3, 2, 150, 200,
'Boxes', 30000),(3, 4,50, 205, 'pcs', 10250),(4, 2, 50, 200, 'Boxes', 10000);
INSERT INTO 'item list' ('id', 'name', 'description', 'supplier id', 'cost', 'status',
'date created', 'date updated') VALUES(1, 'Item 101', 'Sample Only', 1, 150, 1, '2021-
11-0210:01:55', '2021-11-02 10:01:55'),(2, 'Item 102', 'Sample only', 2, 200, 1, '2021-11-
0210:02:12', '2021-11-02 10:02:12'),(3, 'Item 103', 'Sample', 1, 185, 1, '2021-11-02
10:02:27','2021-11-02 10:02:27'),(4, 'Item 104', 'Sample only', 2, 205, 1, '2021-11-02
10:02:47', '2021-11-02 10:02:47');
INSERT INTO 'po items' ('po id', 'item id', 'quantity', 'price', 'unit', 'total')
VALUES(1,1, 500, 150, 'pcs', 75000),(2, 2, 300, 200, 'Boxes', 60000),(2, 4, 200, 205,
'pcs', 41000);
INSERT INTO 'purchase order list' ('id', 'po code', 'supplier id', 'amount',
'discount perc', 'discount', 'tax perc', 'tax', 'remarks', 'status', 'date created',
'date updated') VALUES(1, 'PO-0001', 1, 81480, 3, 2250, 12, 8730, 'Sample', 2, '2021-
11-0311:20:22', '2021-11-03 11:21:00'),(2, 'PO-0002', 2, 107464, 5, 5050, 12, 11514,
'Sample PO Only', 2, '2021-11-03 11:50:50', '2021-11-03 11:52:15');
```

```
INSERT INTO 'receiving list' ('id', 'form id', 'from order', 'amount', 'discount perc',
'discount', 'tax perc', 'tax', 'stock ids', 'remarks', 'date created', 'date updated')
VALUES(1, 1, 1, 40740, 3, 1125, 12, 4365, '1', 'Sample', '202111-03 11:20:38', '2021-11-
0311:20:38'),(2, 1, 2, 20370, 3, 562.5, 12, 2182.5, '2', ", '2021-11-03 11:20:51', '2021-11-
0311:20:51'),(3, 2, 2, 20370, 3, 562.5, 12, 2182.5, '3', 'Success', '2021-11-03 11:21:00',
'2021-11-03 11:21:00'),(4, 2, 1, 64638, 5, 3037.5, 12, 6925.5, '4,5', 'Sample Receiving
(Partial)', '2021-11-03 11:51:41', '2021-11-03 11:51:41'),(5, 3, 2, 32186, 5, 1512.5, 12,
3448.5, '6,7', 'BOReceive (Partial)', '2021-11-03 11:52:02', '2021-11-03 11:52:02'),
(6, 4, 2, 10640, 5, 500, 12, 1140, '8', 'Sample Success', '2021-11-03 11:52:15', '2021-11-
0311:52:15');
INSERT INTO 'return list' ('id', 'return code', 'supplier id', 'amount', 'remarks',
'stock ids', 'date created', 'date updated') VALUES(1, 'R-0001', 2, 3025, 'Sample
Issue', '16,17', '2021-11-03 13:45:53', '2021-11-03 13:45:53');
INSERT INTO 'sales list' ('id', 'sales code', 'client', 'amount', 'remarks', 'stock ids',
'date created', 'date updated') VALUES(1, 'SALE-0001', 'John Smith', 7625, 'Sample
Remarks', '24,25,26', '2021-11-03 14:03:30', '2021-11-03 14:08:27');
INSERT INTO 'stock list' ('id', 'item id', 'quantity', 'unit', 'price', 'total', 'type',
'date created') VALUES(1, 1, 250, 'pcs', 150, 37500, 1, '2021-11-03 11:20:38'),(2, 1,
125, 'pcs', 150, 18750, 1, '2021-11-03 11:20:51'), (3, 1, 125, 'pcs', 150, 18750, 1, '2021-11-
0311:21:00'),(4, 2, 150, 'Boxes', 200, 30000, 1, '2021-11-03 11:51:41'),(5, 4, 150, 'pcs',
205,30750, 1, '2021-11-03 11:51:41'),(6, 2, 100, 'Boxes', 200, 20000, 1, '2021-11-03
11:52:02'),(7, 4, 50, 'pcs', 205, 10250, 1, '2021-11-03 11:52:02'),(8, 2, 50, 'Boxes', 200,
10000, 1, '2021-11-03 11:52:15'),(16, 2, 10, 'pcs', 200, 2000, 2, '2021-11-03
13:45:53'),(17, 4, 5, 'boxes', 205, 1025, 2, '2021-11-03 13:45:53'),(24, 1, 10, 'pcs', 150,
1500, 2, '2021-11-03 14:08:27'),(25, 2, 5,'pcs', 200, 1000, 2, '2021-11-03 14:08:27'),(26,
4, 25, 'boxes', 205, 5125, 2, '2021-11-03 14:08:27');
INSERT INTO 'supplier list' ('id', 'name', 'address', 'cperson', 'contact', 'status',
'date created', 'date updated') VALUES(1, 'Supplier 101', 'Sample Supplier Address
101', 'Supplier Staff 101', '09123456789', 1, '2021-11-02 09:36:19', '2021-11-02
09:36:19'),(2,'Supplier 102', 'Sample Address 102', 'Supplier Staff 102', '0987654332', 1,
'2021-11-02 09:36:54', '2021-11-02 09:36:54');
```

INSERT INTO 'system_info' ('id', 'meta_field', 'meta_value') VALUES(1, 'name', 'StockManagement System - PHP'),(6, 'short_name', 'SMS- PHP'),(11, 'logo', 'uploads/logo1635816671.png'),(13, 'user_avatar', 'uploads/user_avatar.jpg'),(14, 'cover', 'uploads/cover-1635816671.png'),(15, 'content', 'Array');
INSERT INTO 'users' ('id', 'firstname', 'middlename', 'lastname', 'username', 'password', 'avatar', 'last_login', 'type', 'date_added', 'date_updated') VALUES1, 'Adminstrator', NULL,'Admin', 'admin', '0192023a7bbd73250516f069df18b500', 'uploads/avatar- 1.png?v=1635556826', NULL, 1, '2021-01-20 14:02:37','2021-10-30 09:20:26'),(10, 'John',NULL, 'Smith', 'jsmith', '39ce7e2a8573b41ce73b5ba41617f8f7', 'uploads/avatar- 10.png?v=1635920488', NULL, 2, '2021-11-03 14:21:28', '2021-11-03 14:21:28', 'Ull, 'Claire', NULL, 'Blake', 'cblake', 'cd74fae0a3adf459f73bbf187607ccea', 'uploads/avatar-11.png?v=1635920566', NULL, 1, '2021-11-03 14:22:46', '2021-11-03 14:22:46', '2021-11-03 14:22:46', '2021-11-03

Alter commands:

ALTER TABLE 'back_order_list' ADD PRIMARY KEY ('id'), ADD KEY 'supplier_id' ('supplier_id'), ADD KEY 'po_id' ('po_id'), ADD KEY 'receiving_id' ('receiving_id');
ALTER TABLE 'bo_items' ADD KEY 'item_id' ('item_id'), ADD KEY 'bo_id' ('bo_id'); ALTER TABLE 'item_list' ADD PRIMARY KEY ('id'), ADD KEY 'supplier_id' ('supplier_id');
ALTER TABLE 'po_items' ADD KEY 'po_id' ('po_id'), ADD KEY 'item_id' ('item_id'); ALTER TABLE 'purchase_order_list' ADD PRIMARY KEY ('id'), ADD KEY 'supplier_id' ('supplier_id');
ALTER TABLE 'receiving_list' ADD PRIMARY KEY ('id'); ALTER TABLE 'return_list' ADD PRIMARY KEY ('id'), ADD KEY 'supplier_id' ('supplier_id');
ALTER TABLE 'sales_list' ADD PRIMARY KEY ('id'); ALTER TABLE 'stock_list' ADD PRIMARY KEY ('id'), ADD KEY 'item_id' ('item_id'); ALTER TABLE 'supplier_list' ADD PRIMARY KEY ('id');
ALTER TABLE 'system_info' ADD PRIMARY KEY ('id');

ALTER TABLE 'users' ADD PRIMARY KEY ('id');

ALTER TABLE 'user_meta' ADD KEY 'user_id' ('user_id');

ALTER TABLE 'back_order list'MODIFY 'id' int(30) NOT NULL

AUTO INCREMENT, AUTO INCREMENT=5;

ALTER TABLE 'item list' MODIFY 'id' int(30) NOT NULLAUTO INCREMENT,

AUTO INCREMENT=6;

ALTER TABLE 'purchase order list'MODIFY 'id' int(30) NOT NULL

AUTO_INCREMENT, AUTO_INCREMENT=3;

ALTER TABLE 'receiving list'MODIFY 'id' int(30) NOT

NULLAUTO INCREMENT, AUTO INCREMENT=7;

ALTER TABLE 'return_list'MODIFY 'id' int(30) NOT NULLAUTO_INCREMENT,

AUTO INCREMENT=2;

ALTER TABLE 'sales list' MODIFY 'id' int(30) NOT NULL AUTO INCREMENT,

AUTO_INCREMENT=2;

ALTER TABLE 'stock list'MODIFY 'id' int(30) NOT NULL AUTO INCREMENT,

AUTO INCREMENT=27;

ALTER TABLE 'supplier list' MODIFY 'id' int(30) NOT NULL

AUTO INCREMENT, AUTO INCREMENT=4;

ALTER TABLE 'system info'MODIFY 'id' int(30) NOT NULL

AUTO INCREMENT, AUTO INCREMENT=16;

ALTER TABLE 'users' MODIFY 'id' int(50) NOT NULLAUTO INCREMENT,

AUTO INCREMENT=12;

ALTER TABLE 'back order list' ADD CONSTRAINT 'back order list ibfk 1'

FOREIGNKEY ('supplier id') REFERENCES 'supplier list' ('id') ON DELETE

CASCADE, ADD CONSTRAINT 'back order list ibfk 2' FOREIGN KEY ('po id')

REFERENCES 'purchase order list' ('id') ON DELETE CASCADE, ADD

CONSTRAINT 'back order_list_ibfk_3' FOREIGN KEY ('receiving_id')

REFERENCES 'receiving list'('id') ON DELETE CASCADE;

ALTER TABLE `bo_items`ADD CONSTRAINT `bo_items_ibfk_1` FOREIGN KEY (`item_id`) REFERENCES `item_list` (`id`) ON DELETE CASCADE,ADD CONSTRAINT `bo_items_ibfk_2` FOREIGN KEY (`bo_id`) REFERENCES `back_order_list` (`id`) ONDELETE CASCADE;

ALTER TABLE 'item_list' ADD CONSTRAINT 'item_list_ibfk_1' FOREIGN KEY ('supplier_id') REFERENCES 'supplier_list' ('id') ON DELETE CASCADE; ALTER TABLE 'po_items' ADD CONSTRAINT 'po_items_ibfk_1' FOREIGN KEY('po_id') REFERENCES 'purchase_order_list' ('id') ON DELETE CASCADE, ADD CONSTRAINT 'po_items_ibfk_2' FOREIGN KEY ('item_id') REFERENCES 'item_list'('id') ON DELETE CASCADE;

ALTER TABLE `purchase_order_list`ADD CONSTRAINT
`purchase_order_list_ibfk_1`FOREIGN KEY (`supplier_id`) REFERENCES
`supplier_list` (`id`) ON DELETE CASCADE;

ALTER TABLE `return_list`ADD CONSTRAINT `return_list_ibfk_1` FOREIGN KEY (`supplier_id`) REFERENCES `supplier_list` (`id`) ON DELETE CASCADE;

ALTER TABLE `stock_list`ADD CONSTRAINT `stock_list_ibfk_1` FOREIGN KEY (`item_id`) REFERENCES `item_list` (`id`) ON DELETE CASCADE;

SNAPSHOTS

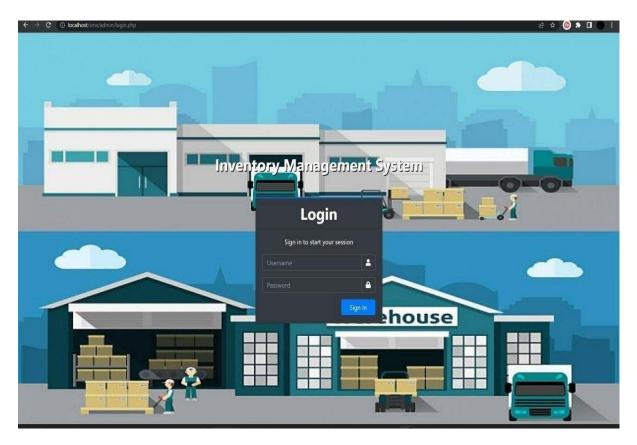


Fig 5.1: Login page

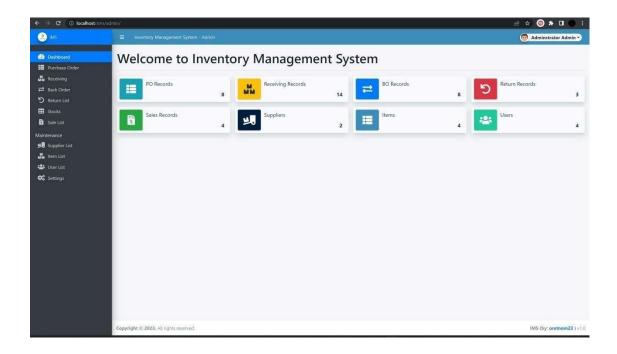


Fig 5.2: Dashboard Page

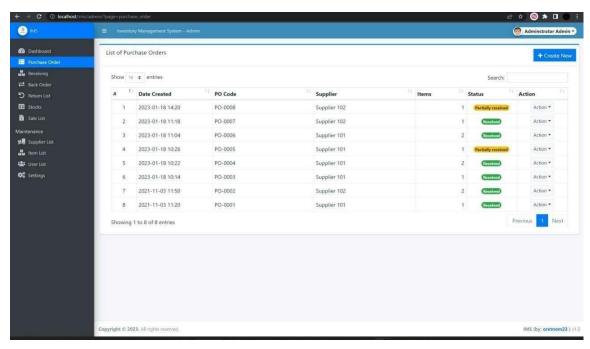


Fig 5.3: Purchase Order Page

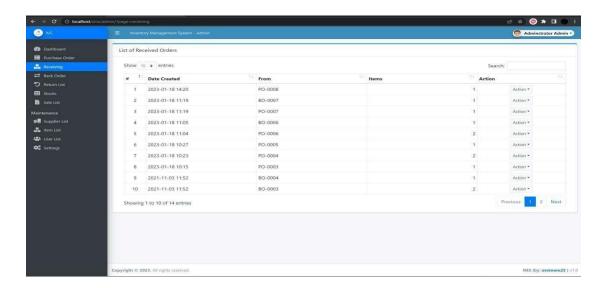


Fig 5.4: Receiving List Page

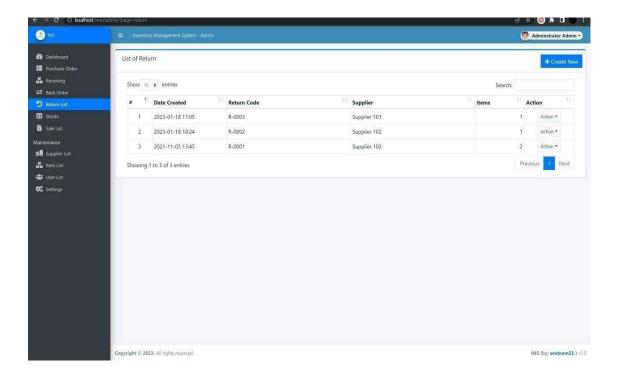


Fig 5.5: Return List Page

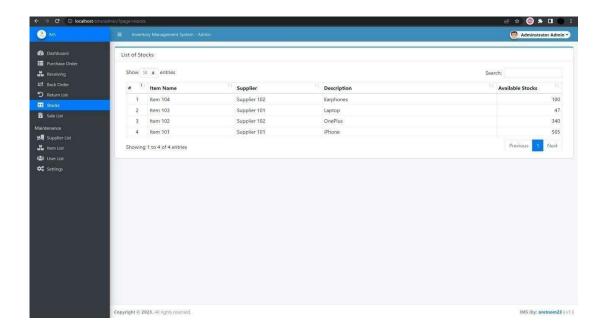


Fig 5.6: Stock List Page

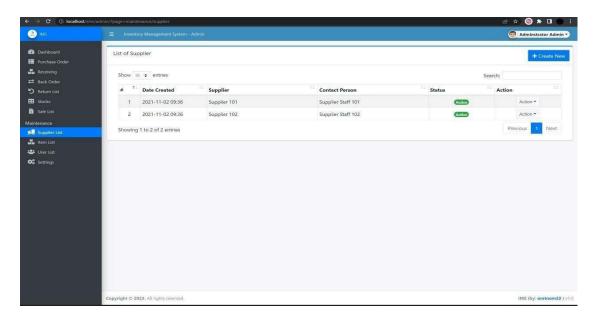


Fig 5.7: Supplier List Page

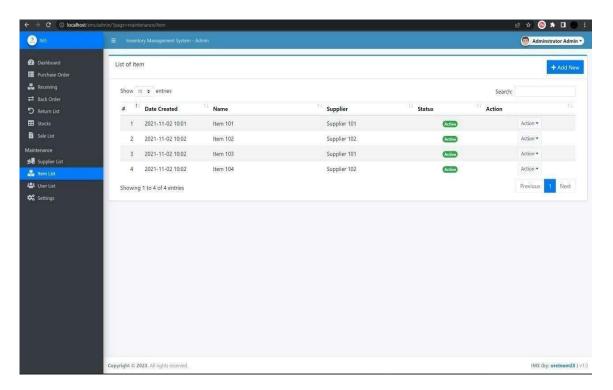


Fig 5.8: Item List Page

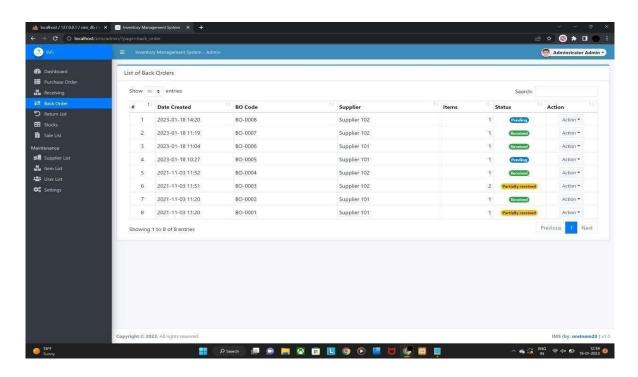


Fig 5.9: BackOrder Page

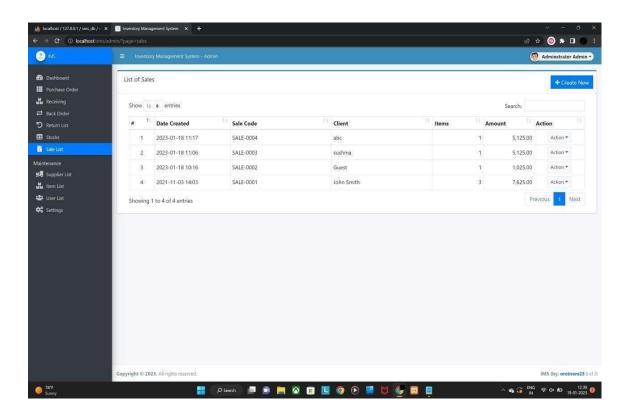


Fig 5.10: Sales List Page

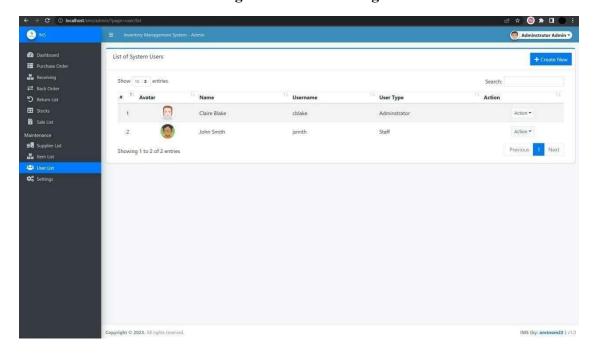


Fig 5.11: User List Page

CONCLUSION

To conclude, Inventory Management System is a simple desktop based application basically suitable for small organization. It has every basic items which are used for the small organization. Our team is successful in making the application where we can update, insert and delete the item as per the requirement. This application also provides a simple report on daily basis to know the daily sales and purchase details. This application matches for small organization where there small limited if godown.

Through it has some limitations, our team strongly believes that the implementation of this system will surely benefit the organization.

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