

INVENTORY MASTERS



ABOUT US

INVENTORY MANAGEMENT SYSTEM

This is an Inventory Management System built in the form of a GUI desktop application developed in Java using MySQL as its database. The GUI was designed using Swing and the database connectivity was managed using JDBC API.

This application can be used by any small to mid-sized stores to easily maintain and manage an inventory of all their-

- Products
- Customers
- Suppliers
- Users
- Transactions



TECHNOLOGIES USED

- The following are the technologies that have been used in the development of this project. All of them are free to use.
- JetBrains IntelliJ IDE
- Apache NetBeans IDE (for the GUI designer)
- MySQL Server and Workbench
- JDK 16

02

FEATURES OF THE APPLICATION

01

- Users can manage inventory and stock of all the products available in their store.

02

- Users can manage all sales and purchase transactions made by the store.

03

- Supports two user types:
 - a. Administrator
 - b. Employee
- [Admins have the ability to manage all other personnel.]

04

- Any transaction made automatically handles the stock availability in the inventory.

02

FEATURES OF THE APPLICATION

01

- Each section includes a search feature to make it easier for users to view the data they want to see.

02

- Users only need to enter the product code while making a sale and all the relevant details will be retrieved from the database automatically.

03

- Maintains a time log of all the users using the application.

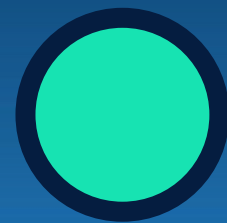


03 HOW TO DOWNLOAD AND RUN THE SOFTWARE

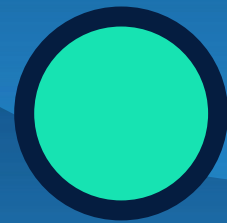
1. Download and unzip the ZIP folder: [InventoryManagement.zip](#)
2. Download the [SQL dump file](#)
3. Import the SQL dump file using MySQL Workbench to locally create the sample schema and tables associated with this software.
4. After the inventory schema has been locally created, you can go ahead and run the JAR file (InventoryManagement.jar) included in the zip folder.
5. Default credentials for the connection to MySQL database is:
 - Username: root
 - Password: root
6. Once these credentials match, the JAR file should execute without any issues provided that you have the minimum JRE.
7. You can log into the application using Username: root and Password: root.

04

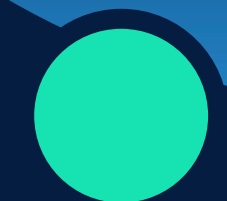
APPLICATION PREVIEW



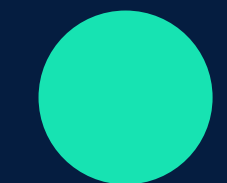
LOGIN PAGE



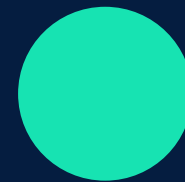
DASHBOARD/WELCOME
PAGE



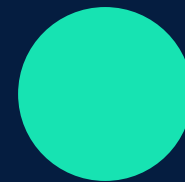
PRODUCTS



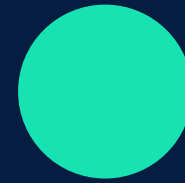
CURRENT STOCK



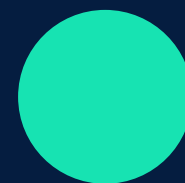
SUPPLIERS



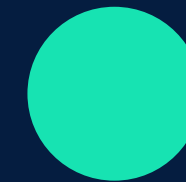
CUSTOMERS



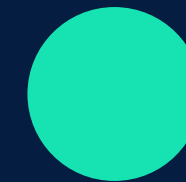
SUPPLIERS



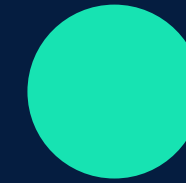
CUSTOMERS



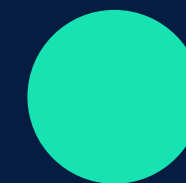
SALES



PURCHASE



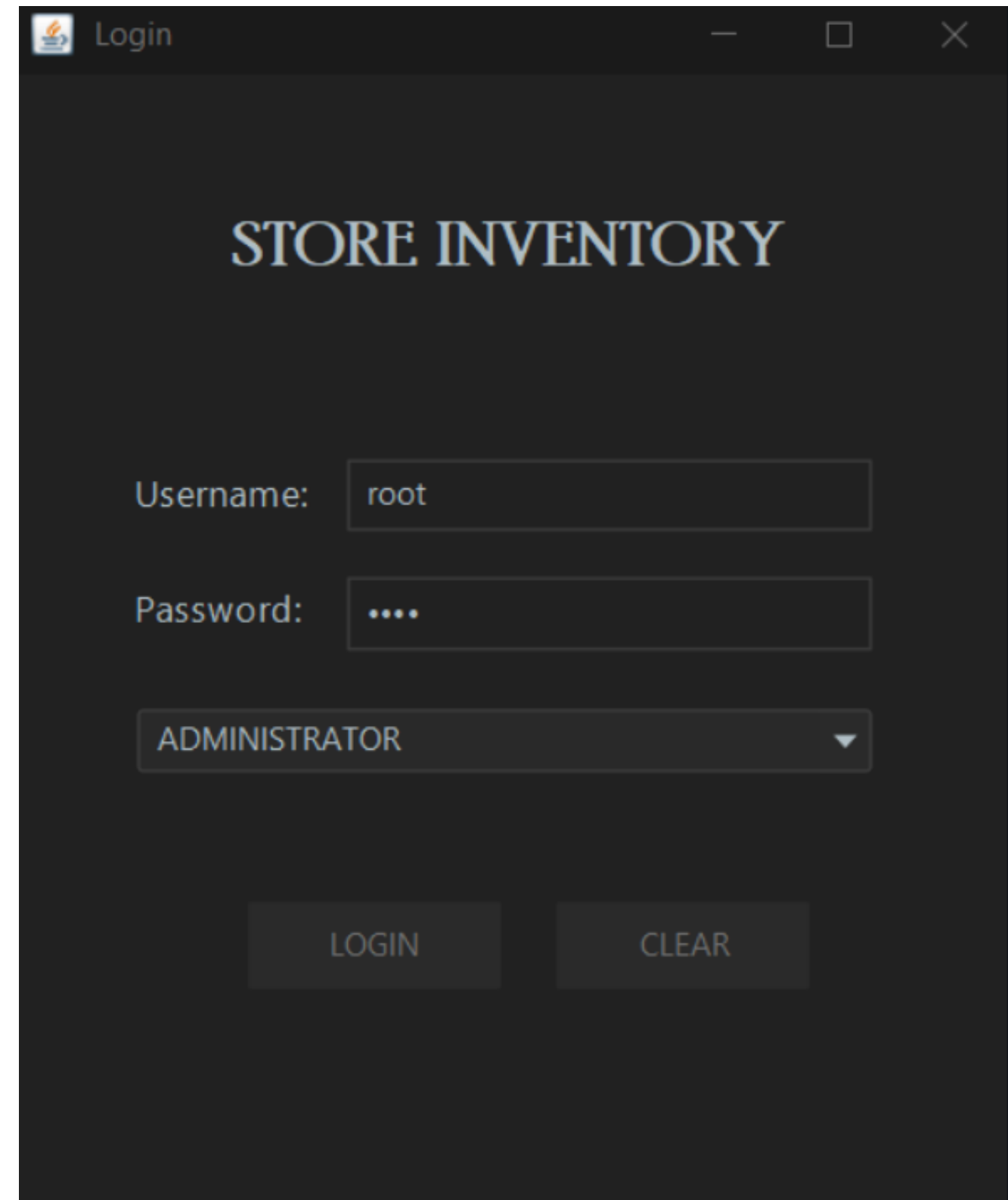
USERS



USER LOGS

LOGIN PAGE

The login page takes in the credentials entered by the user and verifies with the database.



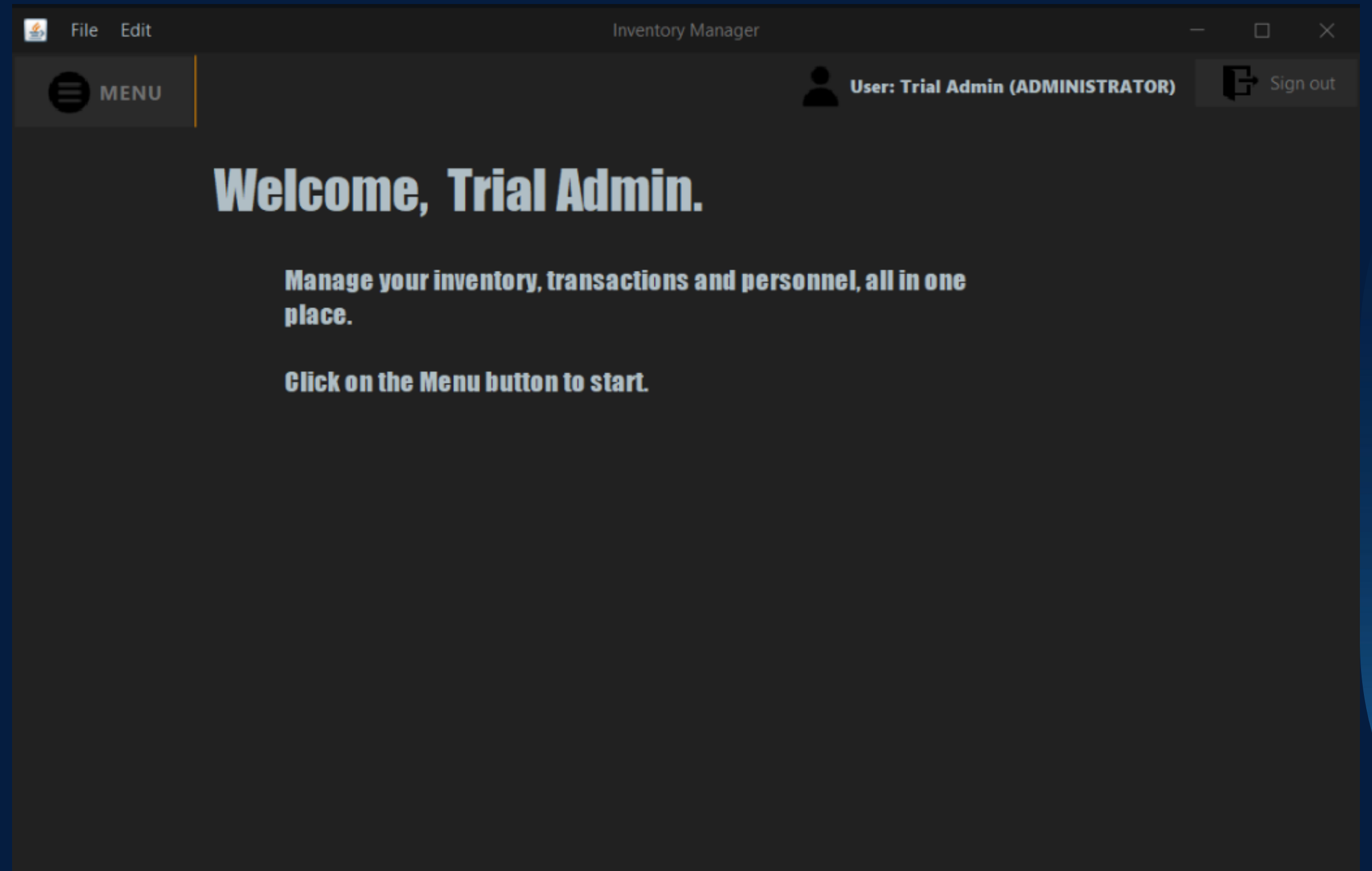
A screenshot of a web application window titled "Login". The window has a dark background and contains the text "STORE INVENTORY" at the top. Below this, there are three input fields: "Username:" with the value "root", "Password:" with masked characters "....", and a dropdown menu currently showing "ADMINISTRATOR". At the bottom of the form are two buttons: "LOGIN" and "CLEAR".

Username:

Password:

DASHBOARD/WELCOME PAGE

The landing page of the application after a successful login



PRODUCTS



FileEdit

Inventory Manager

User: Trial Admin (ADMINISTRATOR)

Sign out

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PRODUCTS

Search:

REFRESH

PRODUCTCODE	PRODUCTNAME	COSTPRICE	SELLPRICE	BRAND
prod1	Laptop	85000.0	90000.0	Dell
prod2	Laptop	70000.0	72000.0	HP
prod3	Mobile	60000.0	64000.0	Apple
prod4	Mobile	50000.0	51000.0	Samsung
prod5	Charger	2000.0	2100.0	Apple
prod6	Mouse	1700.0	1900.0	Dell
prod7	Power Adapter	3000.0	3500.0	Dell
prod8	Smart Watch	15000.0	17000.0	Apple

Enter Product Details

Dell Inc.

Click to add a New Supplier

Product Code:

Product Name:

Date:

Quantity:

Cost Price:

Selling Price:

Brand:

Add

Edit

Delete

CLEAR

The products section allows the user to add, edit and delete products from the store's inventory.

CURRENT STOCK

File Edit

Inventory Manager

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User: Trial Admin (ADMINISTRATOR)

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CURRENT STOCK

REFRESH

PRODUCTCODE	PRODUCTNAME	QUANTITY	COSTPRICE	SELLPRICE
prod1	Laptop	146	85000.0	90000.0
prod2	Laptop	100	70000.0	72000.0
prod3	Mobile	202	60000.0	64000.0
prod4	Mobile	172	50000.0	51000.0
prod5	Charger	500	2000.0	2100.0
prod6	Mouse	500	1700.0	1900.0
prod7	Power Adapter	10	3000.0	3500.0
prod8	Smart Watch	20	15000.0	17000.0

This section allows the user to check the availability of every item.

SUPPLIERS

Here, the user can manage and manipulate the record of all the suppliers associated with the store.

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User: Trial Admin (ADMINISTRATOR)

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SUPPLIERS

Search:

SUPPLIERCODE	FULLNAME	LOCATION	MOBILE
sup1	Dell Inc.	Gurugram	1800560001
sup2	iWorld Stores	New Delhi	1800560041
sup3	Samsung Appliances	New Delhi	6546521234
sup4	Hewlett-Packard	Mumbai	8555202215
sup5	Hewlett-Packard Ltd.	Mumbai	8555203300
sup6	Shelby Company Ltd.	Birmingham	9696969696

Enter Supplier Details

Supplier Code:

Full Name:

Location:

Contact:

Debit Amount:

Credit Amount:

Add

Edit

Delete

CLEAR

CUSTOMERS

Allows user to add new customers or update/delete existing customers in the database.

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CUSTOMERS

Search:

CUSTOMERCODE	FULLNAME	LOCATION	PHONE
vip1	John Seed	New York	9818562354
vip2	Jacob Seed	Texas	9650245489
std1	Ajay Kumar	Mumbai	9236215622
std2	Astha Walia	Chandigarh	8854612478
vip3	Madhu Chitkara	Chandigarh	9826546182

Enter Customer Details

Customer Code:

vip1

Full Name:

John Seed

Location:

New York

Contact:

9818562354

Debit Amount:

Credit Amount:

Add

Edit

Delete

CLEAR

SALES

This section is where users can sell a product and manage all the sales transactions. The user only needs to enter the customer and product code and the software will handle the rest, showing all the necessary details like available stock and selling price of the product.

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SALES

SALESID	PRODUCTCO...	PRODUCTNA...	QUANTITY	REVENUE	NAME
2001	prod1	Laptop	3	270000.0	Ahan Jaiswal
2002	prod2	Laptop	2	144000.0	Ahan Jaiswal
2003	prod3	Mobile	1	64000.0	Asjad Iqbal
2004	prod4	Mobile	5	255000.0	Asjad Iqbal
2006	prod1	Laptop	2	180000.0	Trial Admin
2007	prod4	Mobile	1	51000.0	Asjad Iqbal
2008	prod7	Power Ada...	1	3500.0	Asjad Iqbal
2009	prod7	Power Ada...	5	17500.0	Asjad Iqbal
2010	prod4	Mobile	2	102000.0	Trial Admin
2011	prod7	Power Ada...	10	35000.0	Trial Admin
2012	prod4	Mobile	5	255000.0	Asjad Iqbal

User: Trial Admin (ADMINISTRATOR)

Sign out

Search:

Sell Product

Customer Code: vip2

Name: Jacob Seed | Location: Texas

Click to add a New Customer

Product Code: prod4

Name: Mobile | Available quantity: 172

Date:

Selling Price: 51000.0

Quantity:

SELL PRODUCT

Delete

Clear

PURCHASE

FileEdit

Inventory Manager

User: Trial Admin (ADMINISTRATOR)

Sign out

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PURCHASE

Search:

PURCHASEID	PRODUCTCODE	PRODUCTNAME	QUANTITY	TOTALCOST
1001	prod1	Laptop	10	850000.0
1002	prod6	Mouse	20	34000.0
1003	prod3	Mobile	5	300000.0
1004	prod5	Charger	5	10000.0
1005	prod2	Laptop	2	140000.0
1006	prod4	Mobile	2	100000.0
1009	prod3	Mobile	2	120000.0
1010	prod7	Power Adapter	10	30000.0
1011	prod8	Smart Watch	20	300000.0

Purchase Product

Supplier:

Dell Inc.

Click to add a new Supplier

Product Code:prod7

Product Name:Power Adapter

Date:

Quantity:

Cost Price:3000.0

Selling Price:3500.0

Brand:Dell

Purchase

Delete

CLEAR

This section is where users can view purchase logs and enter new purchase transactions. Similar to the sales section, this section only requires the user to enter the product code and the details that are already available in the database will immediately be displayed in the respective spaces.

USERS

This section is only available to ADMINISTRATORS. It allows them to view, add and delete any users.

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User: Trial Admin (ADMINISTRATOR)

Sign out

USERS

ID	NAME	LOCATION	PHONE	USERNAME	PASSWORD	USERTYPE
17	Asjad Iqbal	Chandigarh	965078671...	aduser1	dbadpass	ADMINIST...
18	Ahan Jaisw...	Delhi	966065478...	stduser1	dbstdpass	EMPLOYEE
20	Trial Admin	Local	987654321...	root	root	ADMINIST...
29	Trial Empl...	Local	112233445...	emp1	emp1	EMPLOYEE

Enter User Details

Full Name:

Trial Admin

Location:

Local

Contact:

9876543210

Username:

root

Password:

ADMINISTRATOR

Add

Delete

Clear

USER LOGS

FileEditInventory Manager

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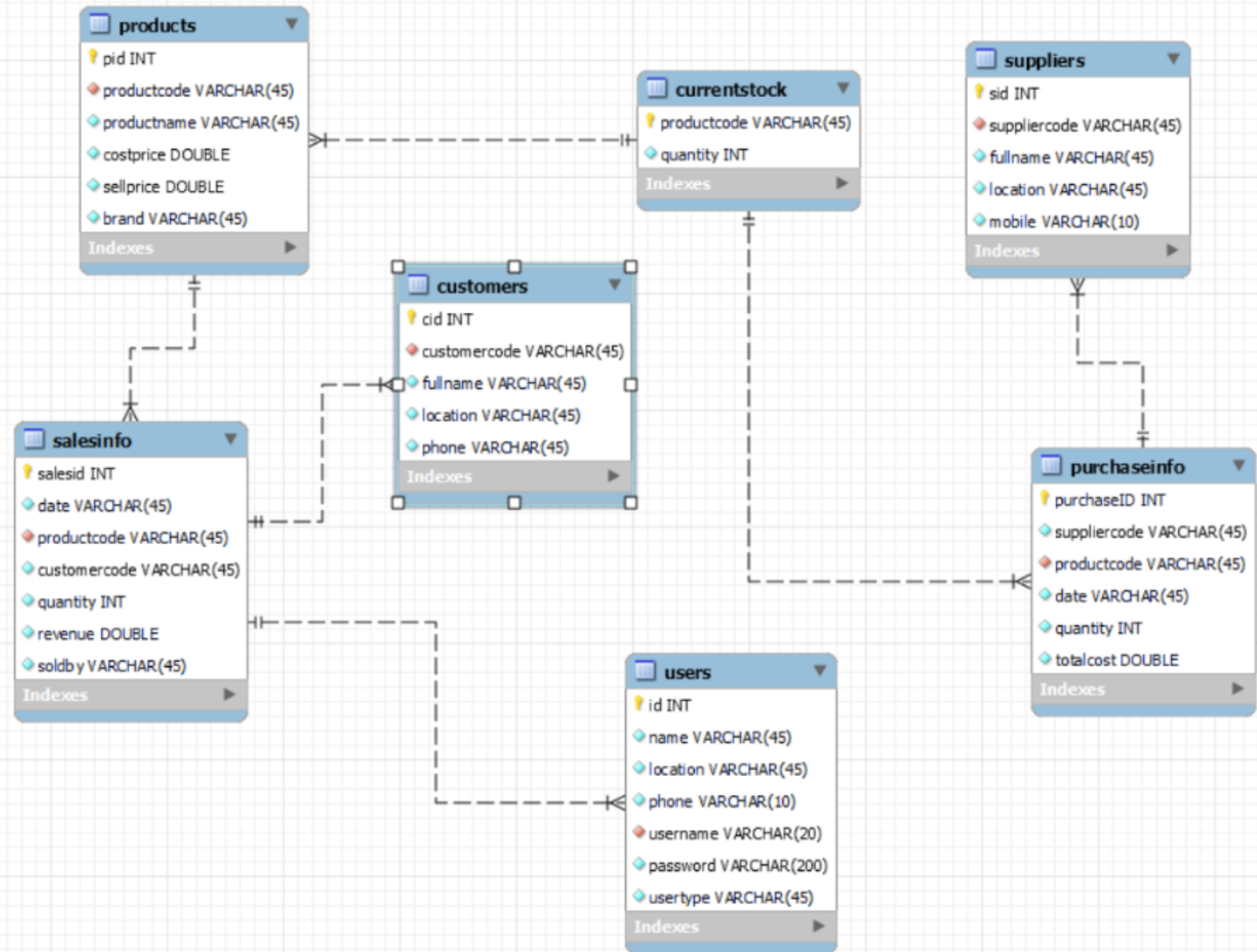
User: Trial Admin (ADMINISTRATOR)Sign out

Search:REFRESH

NAME	USERNAME	IN_TIME	OUT_TIME	LOCATION
Asjad Iqbal	aduser1	2021-09-01T04:46:55.125709...	2021-09-01T04:47:01.801381	Chandigarh
Trial Admin	root	2021-09-01T05:02:43.010014	2021-09-01T05:02:50.2247874	Local
Ahan Jaiswal	stduser1	2021-09-01T05:04:57.690182...	2021-09-01T05:05:04.2942743	Delhi
Trial Admin	root	2021-09-01T05:05:12.269897...	2021-09-01T05:05:16.8667925	Local
Trial Admin	root	2021-09-01T05:10:08.728527...	2021-09-01T05:10:16.9268831	Local
Trial Admin	root	2021-09-01T06:19:09.326477...	2021-09-01T06:19:21.6416209	Local
Trial Employee	emp1	2021-09-01T06:19:34.536411...	2021-09-01T06:19:43.5173921	Local
Trial Admin	root	2021-09-01T06:19:46.811400...	2021-09-01T06:20:10.8796607	Local
Trial Admin	root	2021-09-01T14:59:48.661066...	2021-09-01T15:02:09.7618649	Local
Trial Admin	root	2021-09-01T15:09:02.964317...	2021-09-01T15:09:14.1413248	Local
Trial Admin	root	2021-09-01T15:09:27.889908...	2021-09-01T15:09:48.262387	Local
Trial Admin	root	2021-09-01T15:38:48.557639...	2021-09-01T15:40:00.5271838	Local
Trial Admin	root	2021-09-01T15:40:22.622326	2021-09-01T15:41:06.4614385	Local
Trial Admin	root	2021-09-01T15:44:26.195028...	2021-09-01T15:44:33.0714488	Local
Trial Admin	root	2021-09-02T01:42:52.417989...	2021-09-02T01:42:55.2266759	Local
Trial Admin	root	2021-09-02T01:43:12.226339...	2021-09-02T01:43:15.818776	Local
Asjad Iqbal	aduser1	2021-09-03T02:12:41.021781...	2021-09-03T02:19:11.8298735	Chandigarh
Trial Admin	root	2021-09-03T02:56:35.566056	2021-09-03T02:58:17.4422676	Local
Trial Admin	root	2021-09-03T02:59:28.685	2021-09-03T02:59:36.2263075	Local

Stores and shows the administrator a log of all the users that have previously logged in, including their login time and logout time.

ER Diagram





OUR TEAM

AKASH

AISWARYA P

**AISWARYA
SONY**

AGRAJA

AADIL

