

Instructor: Rakeshkumar Shukla
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User Guide
Inventory Management System

Team DB01E 1

Shane Casiano - Email: sc10196@georgiasouthern.edu - Eagle ID: 901014912
Joseph Dodd - Email: jd11123@georgiasouthern.edu, Eagle ID: 901001055
Duncan Hedden - Email: dh21003@georgiasouthern.edu, Eagle ID: 901250343
Dakarai Holcomb - Email: dh06770@georgiasouthern.edu, Eagle ID: 900976512
Jade Spahr- Email: Js21914@georgiasouthern.edu; Eagle ID: 901007178

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1. INSTALLATION INSTRUCTIONS

Prerequisites:

- Linux server with a Static IP
- MariaDB or MySQL to the server.
- A user with appropriate access to your DBMS.
- Client Device with JDK 16 installed.

Installation:

Database Import:

- Import the database into your DBMS by the following commands in your Linux server's terminal:
- `mysql -u username -p`
 - Enter your password

```
casiano@ubuntu:~/Documents/GitHub/DB-Project/Database Dump$ sudo mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 219
Server version: 10.3.25-MariaDB-0ubuntu1 Ubuntu 20.10

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> █
```

- `CREATE DATABASE inventory_management;`

```
MariaDB [(none)]> CREATE DATABASE inventory_management;
Query OK, 1 row affected (0.000 sec)
```

- `exit;`

```
MariaDB [(none)]> exit;
Bye
```

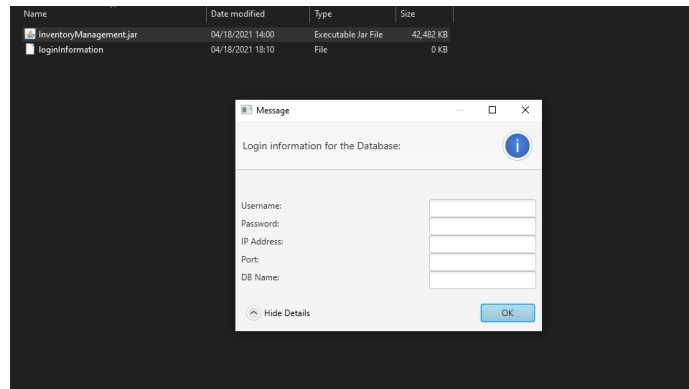
- `mysql -u username -p inventory_management < ims_bak.sql`

```
casiano@ubuntu:~/Documents/GitHub/DB-Project/Database Dump$ sudo mysql -u root -p inventory_management < ims_bak_filled.sql
Enter password:
```

- The database should now be ready.

Java Application:

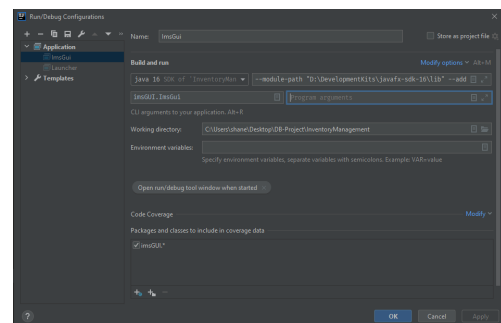
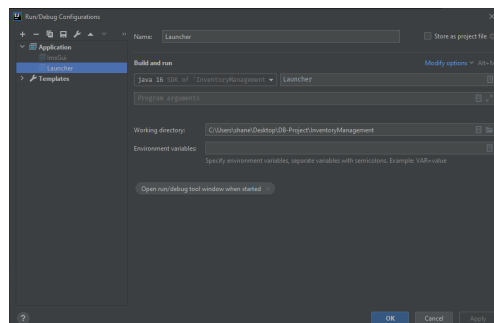
Simple Method

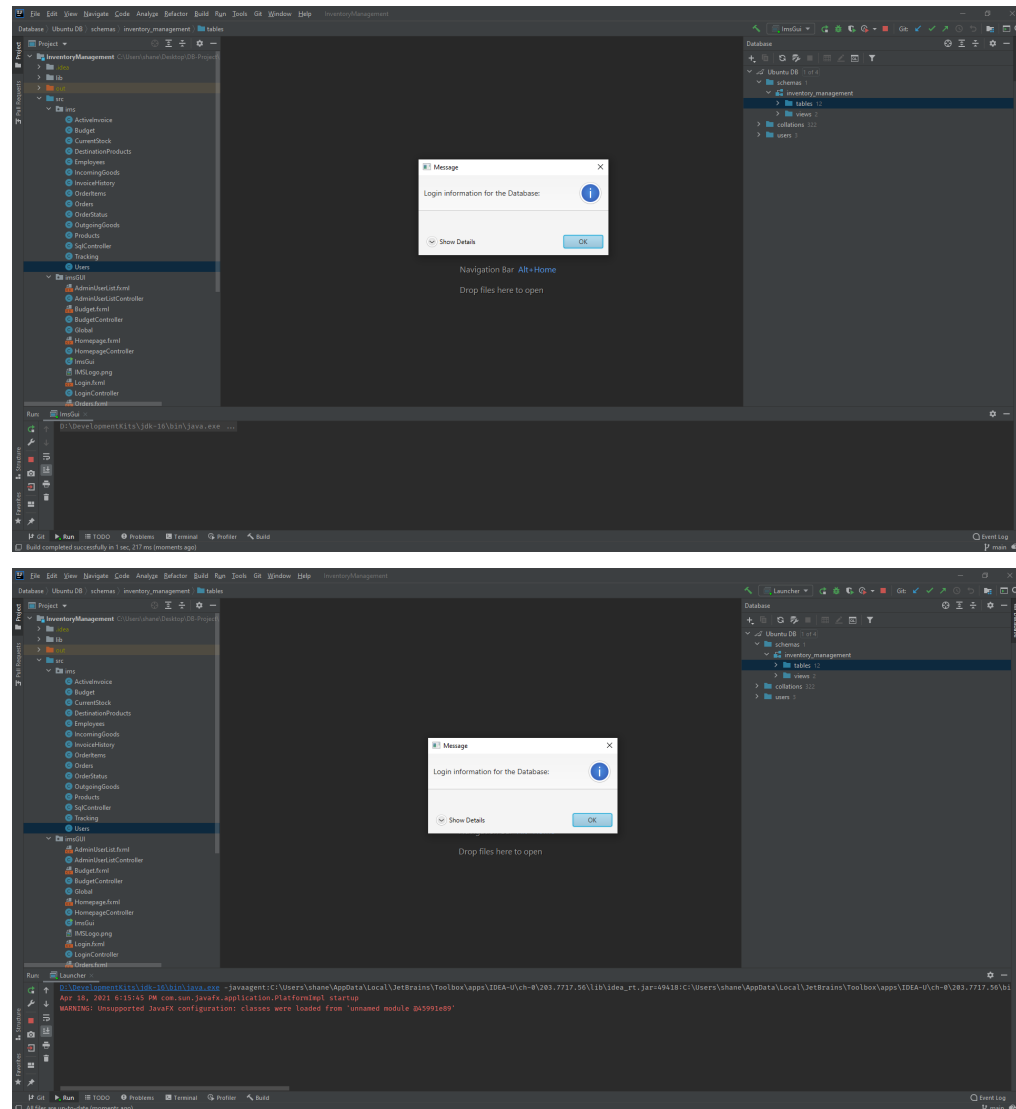


- Simply open the InventoryManagement.jar file and the program will begin. (we recommend doing this in its own folder)
- Note: If the program does not start, and a loginInformation file exists, delete the file and try again, any blanks in the boxes for database information will result in a NullPointerException and are not allowed for this alert box.

Compiling from Source:

- Simply open the project folder in your IDE of choice (IntelliJ was used to create this project).
- Run the program from one of two workable entry points, Launcher.main or ImsGUI.ImsGui.main
 - For imsGUI.ImsGui, you must add the following VM arguments:
`--module-path "/path/to/javafx-sdk-16/lib"`
`--add-modules=javafx.controls,javafx.fxml`





2. UNINSTALLATION INSTRUCTIONS:

Database:

- To remove the database, simply run the following commands in your Linux servers terminal:
- `mysql -u username -p`
 - Enter your password

```
castano@ubuntu:~/Documents/GitHub/DB-Project/Database Dump$ sudo mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 224
Server version: 10.3.25-MariaDB-0ubuntu1 Ubuntu 20.10

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> 
```

- `DROP DATABASE inventory_management;`



```
MariaDB [(none)]> DROP DATABASE inventory_management;
\Query OK, 14 rows affected (0.013 sec)
```

- `exit;`


```
MariaDB [(none)]> exit;
Bye
```







Java Application:

- To remove the Java Application, remove the .jar file, and the loginInformation file.

 InventoryManagement.jar	04/18/2021 14:00	Executable Jar File	42,482 KB
 loginInformation	04/18/2021 18:19	File	1 KB

- If compiled from source using an IDE, simply delete the project and its associated folder.

 DB-Project	The Wireshark Network Protocol Analyzer	04/04/2021 17:09	
--	---	------------------	--

 .git	04/18/2021 17:59	File folder	
 Database Dump	04/18/2021 17:30	File folder	
 InventoryManagement	04/16/2021 15:41	File folder	
 .gitignore	04/16/2021 02:04	Git Ignore Source ...	1 KB
 LICENSE	03/06/2021 02:44	File	2 KB
 README.md	04/04/2021 17:09	Markdown Source...	1 KB

3. PROGRAM INITIALIZATION:

To ensure the database can be connected to, and that this application is modular, the following prompt will appear on each launch of the program, unless **ANY** textboxes are left blank:

The screenshot shows a standard Java Swing message dialog box. The title bar says 'Message'. The main content area has a header 'Login information for the Database:' with an information icon on the right. Below this are five labeled text boxes: 'Username:' with 'casiano', 'Password:' with masked characters, 'IP Address:' with '10.10.100.4', 'Port:' with '3306', and 'DB Name:' with 'inventory_management'. At the bottom left is a 'Hide Details' button with an upward-pointing arrow, and at the bottom right is an 'OK' button.

In the case that textboxes are left blank, please locate the “loginInformation” file, this file will either be in the same directory as the .jar file, or will be in the root directory of the projects working directory. For IntelliJ, this would likely be the same directory as the InventoryManagement.iml file: DB-Project/InventoryManagement, for Eclipse, this directory is user modifiable, and is usually one of two places, either project root, which would be DB-Project/InventoryManagement, or alongside the .java/.class file that calls it, which would be DB-Project/InventoryManagement/src/imsGUI. Please note, that due to large changes across IDE’s for the most consistent experience, we recommend simply running the .jar file.

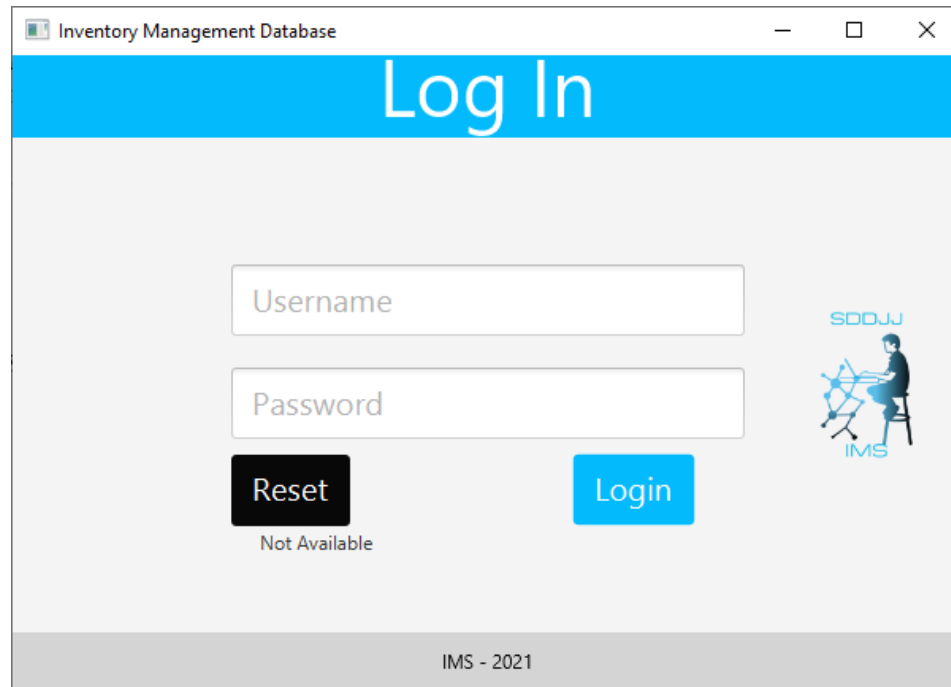
In the box, 5 items are requested after “showing details”:

- Username: A MySQL user with full rights to the imported database,
- Password: The password for the above MySQL user,
- IP Address: The address at which the DBMS is located, localhost is supported
- Port: The port at which the DBMS is located, this is most commonly 3306,
- And DB Name: The name of the database, if following this user guide, the name of the database will be inventory_management

These five boxes will be read from the loginInformation file, if the file exists and has no errors, you do not need to reenter the information on open. This is to allow mass distribution of the .jar file with loginInformation included.

4. USAGE INSTRUCTIONS - LOG IN:

First Log In:



Inventory Management Database

Log In

Username

Password

Reset

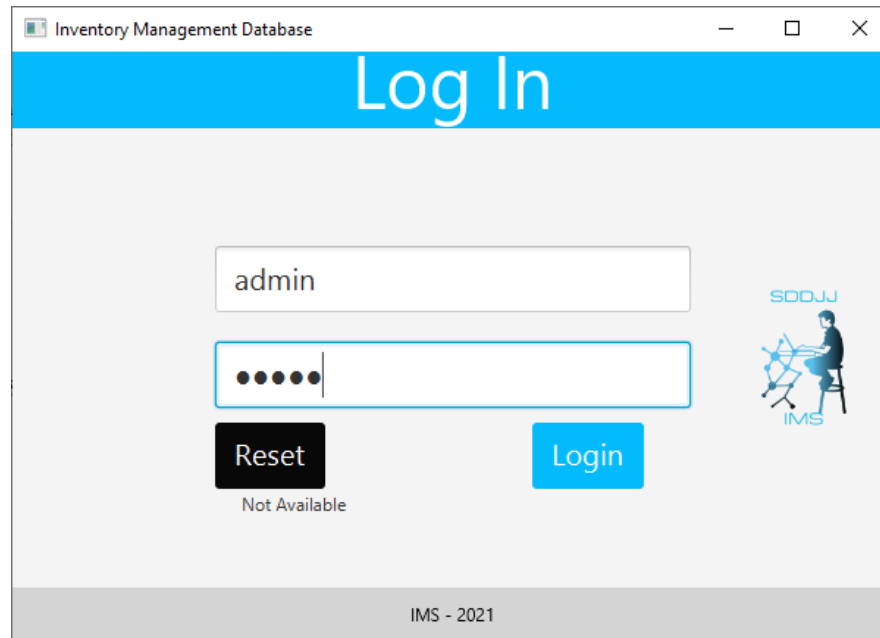
Not Available

Login

SDDJJ
IMS

IMS - 2021

- A default user with admin permissions is provided in both the filled and empty versions of the database, we recommend removing this user if using this program in a production setting.
- The credentials for this user are:
Username: admin
Password: admin
- To change this user, please refer to PROFILE or ADMIN-USERS, where you can create a new user to replace the built-in admin user, or modify the existing built-in user to give added security to login.

**Successive Log In:**

- Utilize the provided credentials in the “users” table of the database, which are listed under Admin-Users, to allow multiple employees and users to log in to the program.

5. USAGE INSTRUCTIONS - PROFILE:

Navigating:

- To return to the homepage, press the homepage button.
- To return to the login screen, press the logout button.

Adding Information:

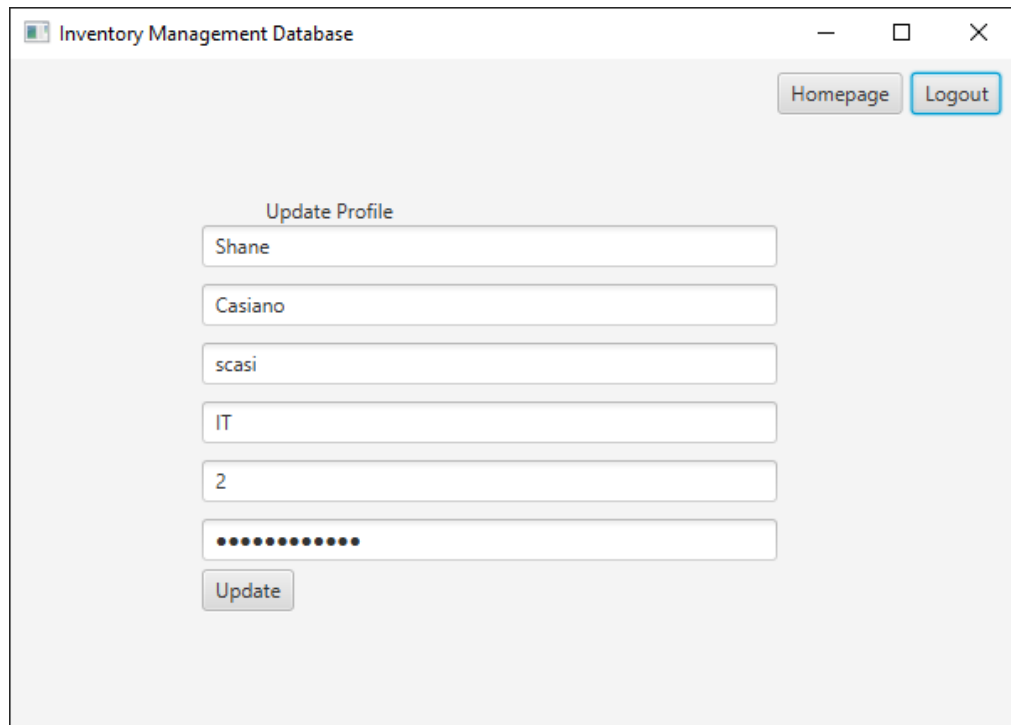
- Adding a new entry is not supported in this view due to privacy/security constraints

Removing Information:

- Removing an entry is not supported in this view due to privacy/security constraints

Modifying Information:

- Modifying the current user can be performed by changing the information in the displayed text boxes to the intended information, and then clicking update.



The screenshot shows a web application window titled "Inventory Management Database". In the top right corner, there are two buttons: "Homepage" and "Logout". The main content area is titled "Update Profile" and contains a vertical stack of text input fields. The first field contains "Shane", the second "Casiano", the third "scasi", the fourth "IT", and the fifth "2". Below these is a password field represented by a series of dots. At the bottom of the form is an "Update" button.

- **Note:** if the update button is not pressed, the information will not update.

6. USAGE INSTRUCTIONS - PRODUCTS:

Navigating:

- To return to the homepage, press the homepage button.
- To return to the login screen, press the logout button.

Adding Information:

- To add information, click add product.

The screenshot shows the 'Add Product Info' form. On the left, there is a table with the following data:

Product Name	Product ID
USB-A to USB-A Cable	127398128
Xbox Series X Controller	127835219
CableMod ATX Power Cable	153852934
CableMod PCIe Power Cable	192837485
Noctua 4-pin Fan Connection Kit	312337126
Razer Basilisk Optical Mouse	538271623
AMD Ryzen 7 5800X	628352190
NVIDIA RTX 3080 Founders Edition	832742987
AMD Ryzen 5 5600X	843826261
NVIDIA RTX 3070 Founders Edition	728834278

On the right, the 'Add Product Info' form has the following fields:

- Product Name:
- Product ID:
- Product MSRP:
- Product Price:
- Product Description:

At the bottom right, there are two buttons: 'Add Product' and 'Cancel'.

- Fill in the textboxes on the right panel.

The screenshot shows the 'Add Product Info' form with the following fields filled in:

- Product Name:
- Product ID:
- Product MSRP:
- Product Price:
- Product Description:

At the bottom right, there are two buttons: 'Add Product' and 'Cancel'.

- Click add product in the bottom right to add the product.

Removing Information:

- To remove a product, click on the product to remove.

Inventory Management Database

Homepage Logout

Add Product

Product Name	Product ID
USB-A to USB-A Cable	127589128
Xbox Series X Controller	127835219
CableMod ATX Power Cable	153852934
CableMod PCIe Power Cable	192627485
Noctua 4-pin Fan Connection Kit	512357126
Razer Basilisk Optical Mouse	538271623
AMD Ryzen 7 5800X	628532190
NVIDIA RTX 3080 Founders Edition	652742987
AMD Ryzen 5 5600X	643836261
NVIDIA RTX 3070 Founders Edition	729834278

Product Name: CableMod ATX Power Cable

Product ID: 153852934

Product MSRP: \$45.82

Product Price: \$64.99

Product Description: Not current description

Modify Product

- Click modify product.

Inventory Management Database

Homepage Logout

Add Product Info

Product Name	Product ID
USB-A to USB-A Cable	127589128
Xbox Series X Controller	127835219
CableMod ATX Power Cable	153852934
CableMod PCIe Power Cable	192627485
Noctua 4-pin Fan Connection Kit	512357126
Razer Basilisk Optical Mouse	538271623
AMD Ryzen 7 5800X	628532190
NVIDIA RTX 3080 Founders Edition	652742987
AMD Ryzen 5 5600X	643836261
NVIDIA RTX 3070 Founders Edition	729834278

Product Name: CableMod PCIe Power Cable

Product ID: 192627485

Product MSRP: \$20.11

Product Price: \$24.99

Product Description: Not current description

Modify Product Delete Product Cancel

- Click delete product in the bottom right.

Modifying Information:

- To modify a product, click on the product to modify.

Inventory Management Database

Homepage Logout

Add Product

Product Name	Product ID
USB-A to USB-A Cable	127589128
Xbox Series X Controller	127835219
CableMod ATX Power Cable	153852934
CableMod PCIe Power Cable	192627485
Noctua 4-pin Fan Connection Kit	512357126
Razer Basilisk Optical Mouse	518271623
AMD Ryzen 7 5800X	628532190
NVIDIA RTX 3080 Founders Edition	652742987
AMD Ryzen 5 5600X	643836261
NVIDIA RTX 3070 Founders Edition	729834278

Product Name: CableMod ATX Power Cable

Product ID: 153852934

Product MSRP: \$45.52

Product Price: \$64.99

Product Description: Not current description

Modify Product

- Click modify product.

Inventory Management Database

Homepage Logout

Add Product Info

Product Name	Product ID
USB-A to USB-A Cable	127589128
Xbox Series X Controller	127835219
CableMod ATX Power Cable	153852934
CableMod PCIe Power Cable	192627485
Noctua 4-pin Fan Connection Kit	512357126
Razer Basilisk Optical Mouse	518271623
AMD Ryzen 7 5800X	628532190
NVIDIA RTX 3080 Founders Edition	652742987
AMD Ryzen 5 5600X	643836261
NVIDIA RTX 3070 Founders Edition	729834278

Product Name: CableMod PCIe Power Cable

Product ID: 192627485

Product MSRP: \$20.11

Product Price: \$24.99

Product Description: Not current description

Modify Product Delete Product Cancel

- Change the information in each respective textbox to change (please note some text boxes will be locked as that information should not be changed once it has been created).
- Click modify product to save the changes.

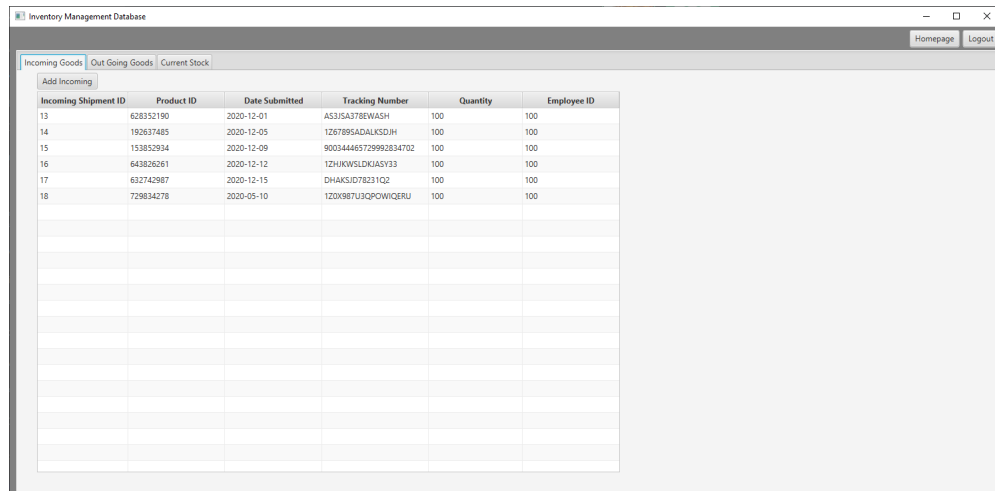
7. USAGE INSTRUCTIONS - PRODUCT STATUS:

Navigating:

- To return to the homepage, press the homepage button.
- To return to the login screen, press the logout button.

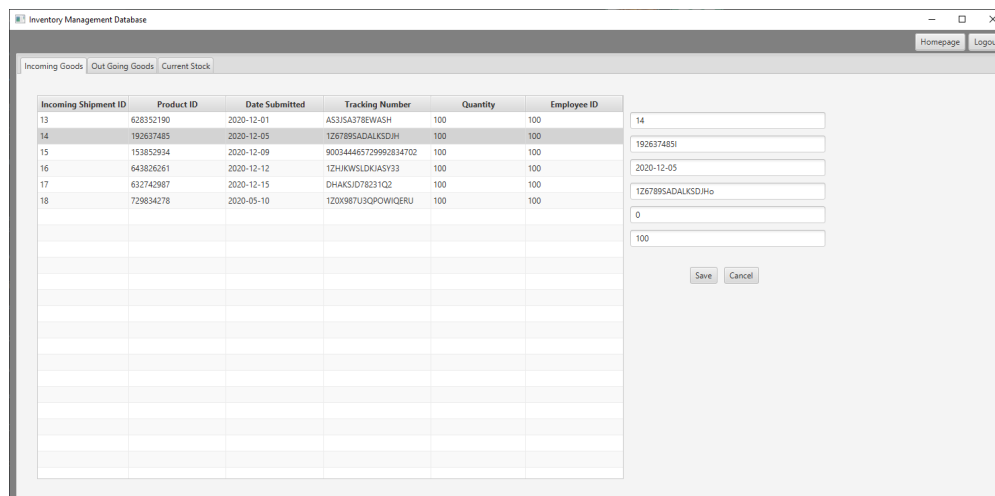
Adding Information:

- To add information to the table, use the add incoming or add outgoing button.



Incoming Shipment ID	Product ID	Date Submitted	Tracking Number	Quantity	Employee ID
13	628352190	2020-12-01	AS3JSA378EWASH	100	100
14	192637485	2020-12-05	1267895ADALKSDJH	100	100
15	153852934	2020-12-09	900344465729992834702	100	100
16	643826261	2020-12-12	12HUKWSLDKJASV33	100	100
17	632742987	2020-12-15	DHAKSJD78231Q2	100	100
18	729834278	2020-05-10	12DK987U3QPQWQERU	100	100

- Fill in the information you wish to add to the table in the textboxes that appeared.



Incoming Shipment ID	Product ID	Date Submitted	Tracking Number	Quantity	Employee ID
13	628352190	2020-12-01	AS3JSA378EWASH	100	100
14	192637485	2020-12-05	1267895ADALKSDJH	100	100
15	153852934	2020-12-09	900344465729992834702	100	100
16	643826261	2020-12-12	12HUKWSLDKJASV33	100	100
17	632742987	2020-12-15	DHAKSJD78231Q2	100	100
18	729834278	2020-05-10	12DK987U3QPQWQERU	100	100

- Click save to save the information.

Removing Information:

- To remove information from the table, click on the entry you wish to delete.

8. USAGE INSTRUCTIONS - ORDERS:

Navigating:

- To return to the homepage, press the homepage button.
- To return to the login screen, press the logout button.

Adding Information:

- To add orders, click on add order

The screenshot shows the 'Add Order' form in the 'Inventory Management Database' application. The form is divided into two main sections: a left sidebar with a table of customer data and a main right panel with input fields and a product list.

Order ID	Customer Name	Customer Name
10010001	Jessica	Remington
10101001	Jane	Doe
20202002	John	Doe
30303003	Sarah	Smith
40404004	Shane	Casano
50505005	Dustin	Farrington
60606006	Joep	Van Den Oversch
70707007	James	Kim
80808008	Burn	Conner
90909009	Jacob	Ravensburger

Order ID: 10010001 Placed: 2021-01-30

Customer Name: Jessica Remington

Customer Address: 238, Somplace On SomeTown, USA

Shipping Status: Not Shipped

Tracking ID: JHGA02761237F4EH

Carrier: FedEx

Employee ID: 111111111

Order Products:

Product ID	Product Name
602742987	

- Fill in the information into the textboxes on the right panel
- Add products being ordered to the order products panel

The screenshot shows the 'Add Order' form in the 'Inventory Management Database' application, with the form filled out. The form is divided into two main sections: a left sidebar with a table of customer data and a main right panel with input fields and a product list.

Order ID	Customer Name	Customer Name
10010001	Jessica	Remington
10101001	Jane	Doe
20202002	John	Doe
30303003	Sarah	Smith
40404004	Shane	Casano
50505005	Dustin	Farrington
60606006	Joep	Van Den Oversch
70707007	James	Kim
80808008	Burn	Conner
90909009	Jacob	Ravensburger

Order ID: 834274 Placed: 4/14/2021

Customer Name: Someone Order

Customer Address: 123, some vachar

Shipping Status: Not shipped

Tracking ID: 738247632424ydrh323242

Carrier: FedEx

Employee ID: 100

Order Products:

Product ID	Product Name
133825904	
628525190	
628525190	

628525190 | AMD | Add

Add Order | Cancel

- Click Add Order to add the order.

Removing Information:

- To remove an order, click modify order

Modify Order

Order ID	Customer Name	Customer Name
10010001	Jessica	Rammington
101010101	Jane	Doe
202020202	John	Doe
303030303	Sarah	Smith
404040404	Shane	Casano
505050505	Dustin	Farrington
606060606	Joap	Van Den Oversch
707070707	James	Kim
808080808	Boris	Conner
909090909	Jacob	Ravensburger

Order ID: 101010101 Placed: 2020-12-10

Customer Name: Jane Doe

Customer Address: 123, Somplace Rd, SomeTown, USA

Shipping Status: Delivered

Tracking ID: JAVSTQW894G3JH

Carrier: UPS

Employee ID: 111111111

Order Products
628352190
628352190
628352190

Delete Order Save Cancel

- Click on delete order
- **Note:** This action is not reversible.

Modifying Information:

- To remove an order, click modify order.

Modify Order

Order ID	Customer Name	Customer Name
10010001	Jessica	Rammington
101010101	Jane	Doe
202020202	John	Doe
303030303	Sarah	Smith
404040404	Shane	Casano
505050505	Dustin	Farrington
606060606	Joap	Van Den Oversch
707070707	James	Kim
808080808	Boris	Conner
909090909	Jacob	Ravensburger

Order ID: 101010101 Placed: 2020-12-10

Customer Name: Jane Doe

Customer Address: 123, Somplace Rd, SomeTown, USA

Shipping Status: Delivered

Tracking ID: JAVSTQW894G3JH

Carrier: UPS

Employee ID: 111111111

Order Products
628352190
628352190
628352190

Delete Order Save Cancel

- Change the information as wanted.
- Click on save to save changes.

9. USAGE INSTRUCTIONS - BUDGET:

Navigating:

- To return to the homepage, press the homepage button.
- To return to the login screen, press the logout button.

Adding Information:

- Fill out the text blocks on the right of the screen.

ID	Start Date	End Date	Incoming	Outgoing	Net	Emp No.
4			6221.34	1234.23	4987.11...	444444444
5			2332.75	3212.56	-879.81	444444444
6			3523.83	2311.34	1212.48...	444444444

- To add a new budget, click the add button.

Removing Information:

- To remove a budget, click on the budget you wish to delete.
- Click delete.
- **Note:** This action is not reversible.

Modifying Information:

- To modify a budget, click on the budget you wish to modify.
- Change the information you wish to change on the right.
- Click save to confirm the changes.

10. USAGE INSTRUCTIONS - ADMIN-USERS:

Navigating:

- To return to the homepage, press the homepage button.
- To return to the login screen, press the logout button.

Adding Information:

- To add information to the table, use the add user or add employee button.

Username ID	First Name	Last Name	User Name	User Role
0	Admin	Admin	admin	Admin
1	John	Doe	someUser	Customer
2	Shane	Casiano	scasi	IT
3	Joseph	Dodd	jdodd	Manager
4	Jade	Spahr	jspah	Manager
5	Duncan	Hedden	dhedd	Admin
6	Dakarai	Holcomb	dhcol	Account Manager
7	Jane	Doe	jane_doe	User
8	Sarah	Smith	serpent	Customer
9	Joep	Van Den Overecht	judover	Customer
10	Bickolas	Norker	bakednorker	Customer
11	Josh	Miller	jmill	Account Worker

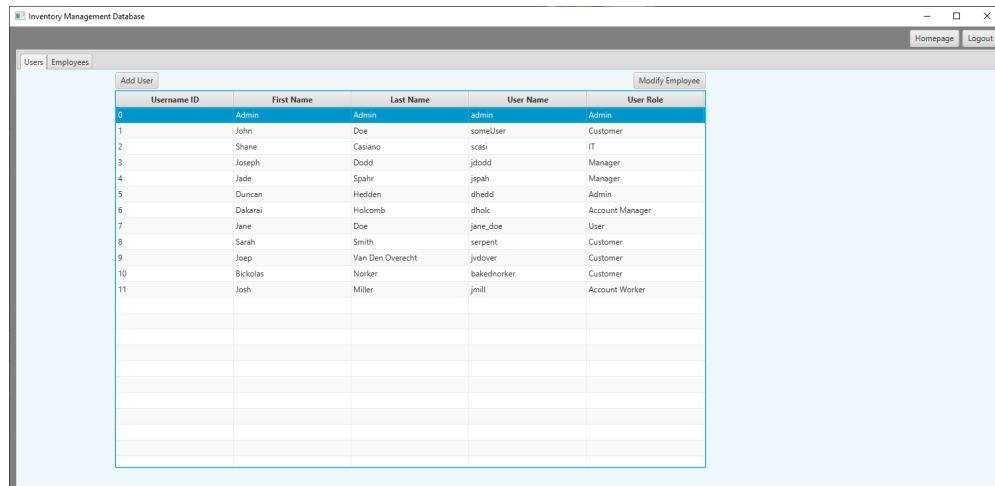
- Fill in the information you wish to add to the table in the textboxes that appeared.

Username ID	First Name	Last Name	User Name	User Role
0	Admin	Admin	admin	Admin
1	John	Doe	someUser	Customer
2	Shane	Casiano	scasi	IT
3	Joseph	Dodd	jdodd	Manager
4	Jade	Spahr	jspah	Manager
5	Duncan	Hedden	dhedd	Admin
6	Dakarai	Holcomb	dhcol	Account Manager
7	Jane	Doe	jane_doe	User
8	Sarah	Smith	serpent	Customer
9	Joep	Van Den Overecht	judover	Customer
10	Bickolas	Norker	bakednorker	Customer
11	Josh	Miller	jmill	Account Worker

- Click save to save the information.

Removing Information:

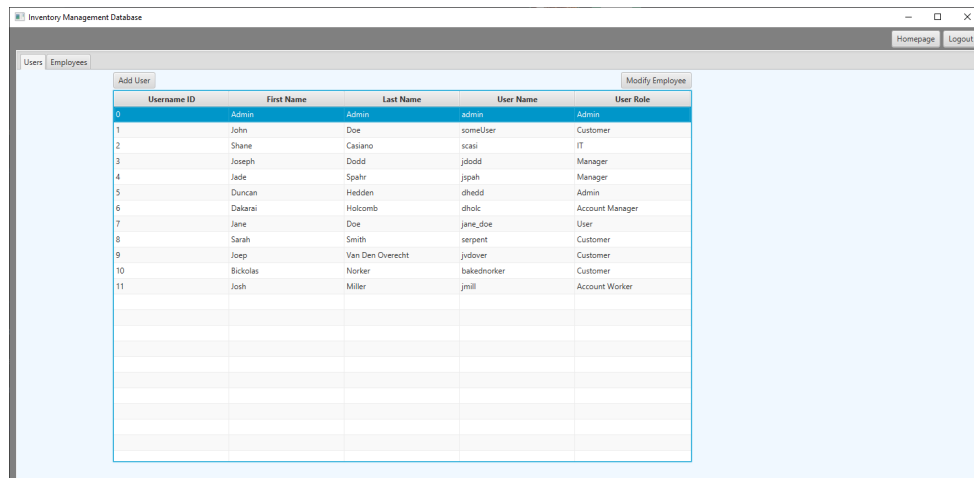
- To remove information from the table, click on the entry you wish to delete.



- Click on modify employee or modify user.
- Click the delete employee or delete user button
- **Note:** This action is not reversible.

Modifying Information:

- To modify information from the table, click on the entry you wish to change.



- Click on modify employee or modify user.
- Change the information you wish to change in the textboxes
- Click update