

ManageMore User's Manual

How to Deploy Application

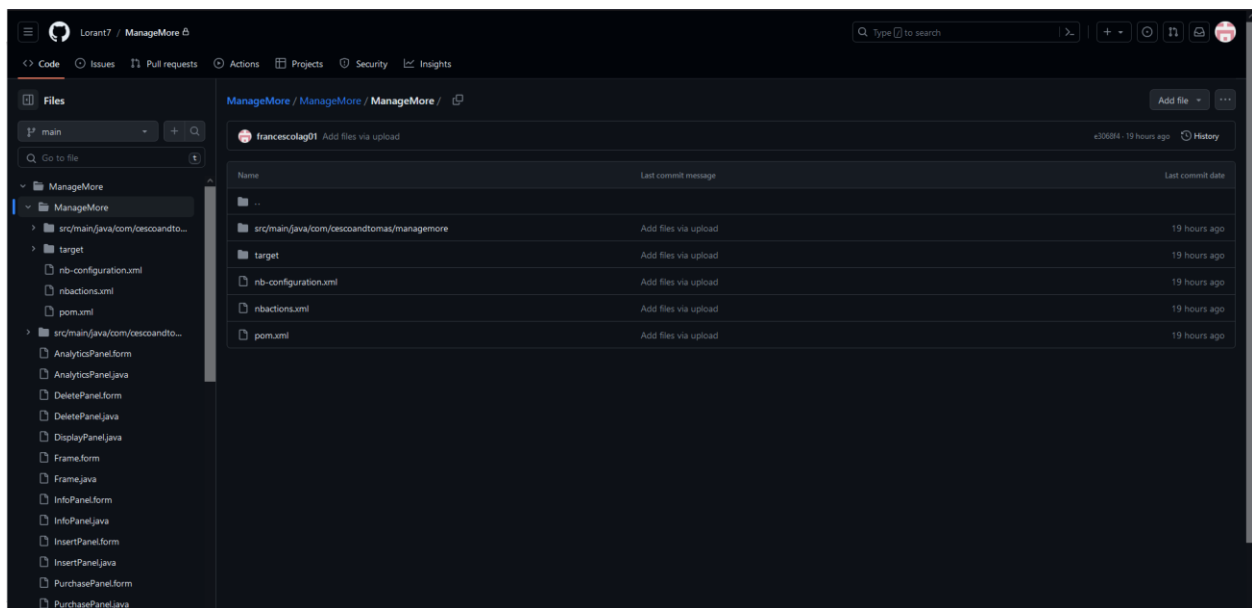
Database Deployment

ManageMore is based on the JDBC driver. The driver is included and the user does not have to install it. However the user must supply their own database. The database should be deployed on MySQL, titled “managemore”, and have username “root” and password “password”. These attributes will allow connectivity between the application and the database.

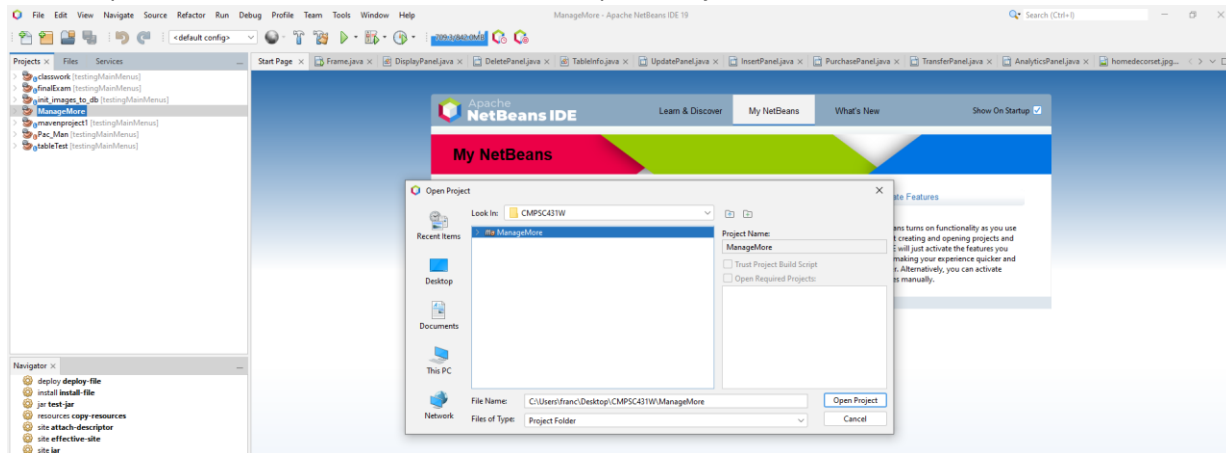
Application Deployment

In future updates of ManageMore, support for launching as a standalone application will be supported. As of the current version, the application must be run inside of NetBeans IDE.

First, download the application from the Manage more git repo. The code is stored under the folder ManageMore.



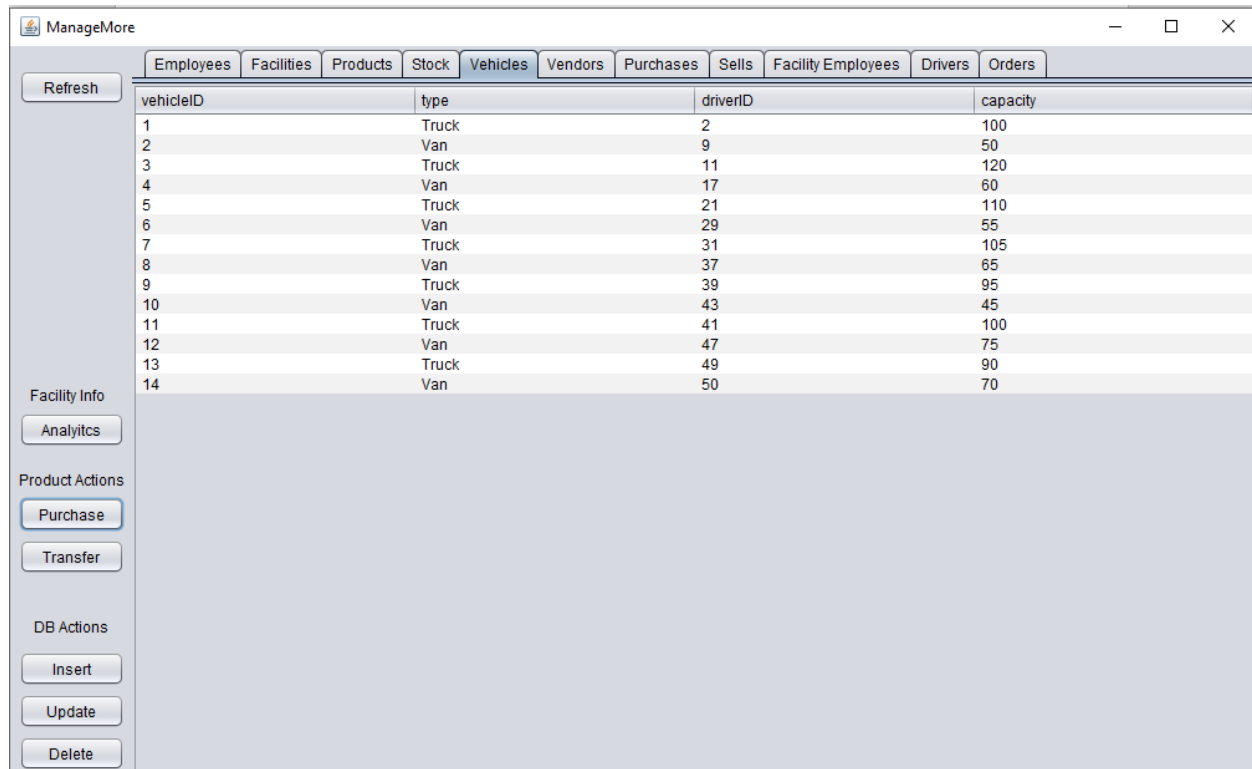
Then, open NetBeans IDE. Go to File -> Open Project.... And select the downloaded folder.



After these steps, ManageMore is now ready to run. Simply press the green arrow at the top of the screen, and the program will start automatically.

Using The Application

1. Main Screen



The screenshot shows the ManageMore application interface. At the top, there is a title bar with the application name 'ManageMore' and standard window controls. Below the title bar is a horizontal tab bar with the following tabs: Employees, Facilities, Products, Stock, Vehicles (selected), Vendors, Purchases, Sells, Facility Employees, Drivers, and Orders. On the left side, there is a vertical sidebar with a 'Refresh' button at the top. Below it, there are sections for 'Facility Info' (with an 'Analytics' button), 'Product Actions' (with 'Purchase' and 'Transfer' buttons), and 'DB Actions' (with 'Insert', 'Update', and 'Delete' buttons). The main area of the application displays a table with the following data:

vehicleID	type	driverID	capacity
1	Truck	2	100
2	Van	9	50
3	Truck	11	120
4	Van	17	60
5	Truck	21	110
6	Van	29	55
7	Truck	31	105
8	Van	37	65
9	Truck	39	95
10	Van	43	45
11	Truck	41	100
12	Van	47	75
13	Truck	49	90
14	Van	50	70

Shown above is what the user is shown upon starting the program. The top right of the screen allows you to see every table in the database. To change the current table, click the corresponding tab. To change the sorting of the columns, click the column header. It changes from ascending to descending order.

To refresh all entries with new data from the database, click the “Refresh” button. The tables are automatically refreshed when the application modifies the database.

2. DB Actions

DB Actions allow the user to directly modify entries in the database. Inserting, Updating, and Deleting are supported with a GUI.

Insert

The screenshot shows the 'ManageMore' application interface. At the top, there is a navigation bar with tabs: Employees, Facilities, Products, Stock, Vehicles (selected), Vendors, Purchases, Sells, Facility Employees, Drivers, and Orders. Below the navigation bar is a table with the following data:

vehicleID	type	driverID	capacity
1	Truck	2	100
2	Van	9	50
3	Truck	11	120
4	Van	17	60
5	Truck	21	110
6	Van	29	55
7	Truck	31	105
8			
9			
10			
11			
12			
13			
14			

On the left side of the application, there is a sidebar with the following sections and buttons:

- Facility Info: Analytics
- Product Actions: Purchase, Transfer
- DB Actions: Insert, Update, Delete

An 'Insert Entry' dialog box is open in the center of the screen. It contains the following text:

Enter a Comma Separated List of Entries to Insert Into Vehicles

Schema: driverID : INT vehicleID : INT type : VARCHAR capacity : INT

It must match the ordering of the above table. Use '' around strings.

The dialog box has 'Cancel' and 'Apply' buttons.

To insert a new row in a database table, first select the corresponding tab of the table you would like to update. Then, click the "Insert" button. The screen will look like the image above. The text box allows the user to enter values to create a new row. To successfully insert, you must follow the order of the schema that is shown in the current table on the Main Screen. The schema under the text box is only for displaying what type a column is. A sample entry to insert a row into 'vehicles' is as follows: 10, 'Truck', 20, 100. This will add a new row with vehicleID = 10, Type = 'Truck', and so on. Notice that you must enclose varchar entries with ' ' to successfully execute the query.

If the insert is successful, the Insert Entry dialog box will close automatically. If the insert fails, an error message is displayed and the Insert Entry dialog will remain open.

Update

The screenshot shows the ManageMore application interface. The 'Vehicles' tab is selected, displaying a table with columns: vehicleID, type, driverID, and capacity. The table contains 14 rows of data. A dialog box titled 'Update Entry' is open in the foreground. The dialog box has a dropdown menu labeled 'Choose Attribute From Vehicles to Update' with 'driverID' selected. Below this, the schema is displayed: 'Schema: driverID : INT vehicleID : INT type : VARCHAR capacity : INT'. There are two input fields: 'Enter Primary Key to Update:' and 'Enter New Attribute Data:'. A note at the bottom of the dialog says 'put '' around strings.' The dialog box has 'Cancel' and 'Apply' buttons.

vehicleID	type	driverID	capacity
1	Truck	2	100
2	Van	9	50
3	Truck	11	120
4	Van	17	60
5	Truck	21	110
6	Van	29	55
7	Truck	31	105
8	Van	27	65
9			95
10			45
11			100
12			75
13			90
14			70

To update an existing row in a database table, first select the corresponding tab of the table you would like to update. Then, click the "Update" button. The screen will look like the image above. ManageMore only allows you to update one attribute at a time. All attributes from the selected table are loaded dynamically into the combo box. Once an attribute is selected, you must enter a primary key of what row you would like to update. Then in the last box, you enter the new value you would like to be updated.

Similar to insert, the dialog closes on success and remains open on sql statement failure.

Delete

The screenshot shows the ManageMore application interface. The 'Vehicles' tab is selected, displaying a table with columns: vehicleID, type, driverID, and capacity. The table contains 14 rows of data. A 'Delete Entry' dialog box is open in the foreground, prompting the user to 'Enter Primary Key vehicleID to Delete from Vehicles'. The dialog has a text input field and 'Cancel' and 'Apply' buttons.

vehicleID	type	driverID	capacity
1	Truck	2	100
2	Van	9	50
3	Truck	11	120
4	Van	17	60
5	Truck	21	110
6	Van	29	55
7	Truck	31	105
8			
9			
10			
11			
12			
13			
14			

Facility Info

Analytics

Product Actions

Purchase

Transfer

DB Actions

Insert

Update

Delete

Delete Entry

Enter Primary Key vehicleID to Delete from Vehicles

Cancel Apply

To delete an existing row in a database table, first select the corresponding tab of the table you would like to update. Then, click the “Delete” button. To delete a row, simply enter the primary key of what row you would like to delete. Just like Insert and Update, the dialog closes on success and remains open on failure.

3. Product Actions

These actions also change and manipulate the database data, but these actions deal with adding product to a facility's stock.

Purchase

The screenshot shows the 'ManageMore' application interface. The 'Vehicles' tab is selected in the top navigation bar. A table displays vehicle data with columns: vehicleID, type, driverID, and capacity. The table contains 14 rows of data. On the left sidebar, under 'Product Actions', the 'Purchase' button is highlighted. A 'Purchase Products' dialog box is open in the center, featuring three input fields: 'Select Product to Purchase' (a dropdown menu showing 'Laptop - Powerful laptop with hig...'), 'Enter Amount' (a text input field), and 'Select Facility to Ship To' (a dropdown menu showing 'Warehouse A'). The dialog box has 'Cancel' and 'Apply' buttons at the bottom.

vehicleID	type	driverID	capacity
1	Truck	2	100
2	Van	9	50
3	Truck	11	120
4	Van	17	60
5	Truck	21	110
6	Van	29	55
7	Truck	31	105
8			65
9			95
10			45
11			100
12			75
13			90
14			70

The purchase button allows the user to purchase stock from a vendor and store it at a certain facility. The combo boxes are automatically populated with the products and facilities available in the database. The user must select an item from each combo box and enter the amount of product to

purchase. A SQL transaction takes place and ensures that all relevant tables are updated upon purchase of a product.

Transfer

The screenshot shows the ManageMore application interface. The 'Vehicles' tab is selected in the top navigation bar. A table displays vehicle information with columns: vehicleID, type, driverID, and capacity. The table contains 14 rows of data. On the left sidebar, there are sections for 'Facility Info' (Refresh, Analytics), 'Product Actions' (Purchase, Transfer), and 'DB Actions' (Insert, Update, Delete). A 'Transfer Products' dialog box is open in the center, featuring four dropdown menus and a text input field. The first dropdown is 'Select Facility to Transfer From' (Warehouse A), the second is 'Select Product to Transfer' (Laptop - Powerful laptop with high-end specifications. Amount: 36), the third is 'Select Vehicle' (Truck - Capacity: 100), and the fourth is 'Select Facility to Transfer to' (Warehouse A). There is an empty text input field for 'Enter Amount to Transfer'. The dialog has 'Cancel' and 'Apply' buttons at the bottom.

vehicleID	type	driverID	capacity
1	Truck	2	100
2	Van	9	50
3	Truck	11	120
4	Van	17	60
5	Truck	21	110
6	Van	29	55
7			
8			
9			
10			
11			
12			
13			
14			

The Transfer button allows the transfer of products between two different facilities. First, the user selects a warehouse from the first combo box. Upon selection of a facility, the second combo box is populated with all stock that is held at the facility and can be transferred. Then the user must enter the amount to transfer, what vehicle to use, and the destination facility. ManageMore checks if the vehicle can hold the amount requested, the source facility has enough to send, and that the source and destination warehouse is not the same.

4. Facility Info

Analytics

ManageMore displays analytics about the products held in facilities, as well as some miscellaneous data.

The screenshot shows the ManageMore application interface. The main window has a title bar with the application name and standard window controls. Below the title bar is a tabbed menu with the following tabs: Employees, Facilities, Products, Stock, Vehicles (selected), Vendors, Purchases, Sells, Facility Employees, Drivers, and Orders. A 'Refresh' button is located to the left of the main data table. The main data table has four columns: vehicleID, type, driverID, and capacity. It contains 14 rows of data. A 'Facility Analytics' dialog box is open in the center of the screen. The dialog box has a title bar with a close button. It contains a 'Select Facility:' dropdown menu with 'Warehouse A' selected. Below this is a 'Stock Information' section with the following details: 'Most Stocked Product: Laptop', 'Amount: 60', and 'Vendor: Electronics Supplier Inc.'. At the bottom of the dialog box is a 'General Information' section with the text 'Total Amount of Employees: 8'. A 'Close' button is located at the bottom of the dialog box. On the left side of the main window, there are several sections of buttons: 'Facility Info' with an 'Analytics' button, 'Product Actions' with 'Purchase' and 'Transfer' buttons, and 'DB Actions' with 'Insert', 'Update', and 'Delete' buttons.

vehicleID	type	driverID	capacity
1	Truck	2	100
2	Van	9	50
3	Truck	11	120
4	Van	17	60
5	Tr		110
6	Va		55
7	Tr		105
8	Va		65
9	Tr		95
10	Va		45
11	Tr		100
12	Va		75
13	Tr		90
14	Va		70

To view Facility Analytics, click the “Analytics” button. The above screen will enter. All the user must do is select a facility from the combo box. The analytics that ManageMore calculates is the most stocked product a warehouse carries. It records the product, amount stored, and vendor who sold the product. The amount of employees employed at each warehouse is also recorded.