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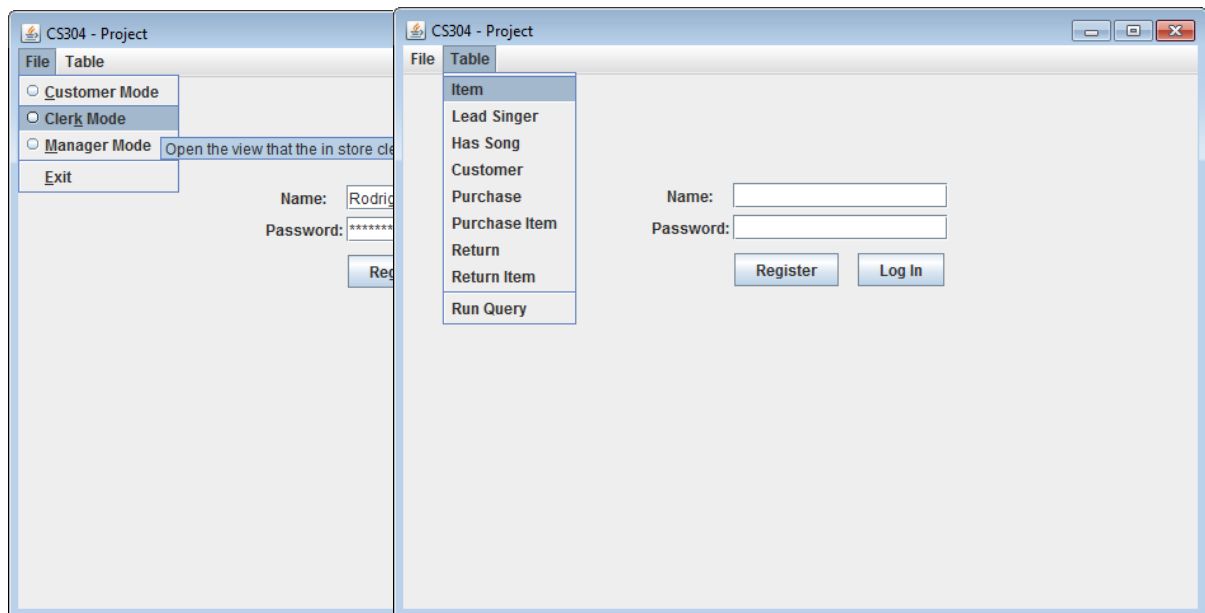
User Manual:

Welcome the database system for **Allegro Music Store (or AMS)**. This system has three major components that complete a variety of transactions. In this user manual we will walk you through them.

The database is designed for three distinct types of users. **Customers** who are accessing the music store online, in-store **clerks** who process in-store transactions and **managers** who generate reports and manage things that affect both the online and regular store.

You can change between the views by clicking on “File” on the top left-hand corner of the application.

You can also view all the tables within the database through the Table menu. There is also a special feature that allows you to directly run queries on the database—the “Run Query” option.

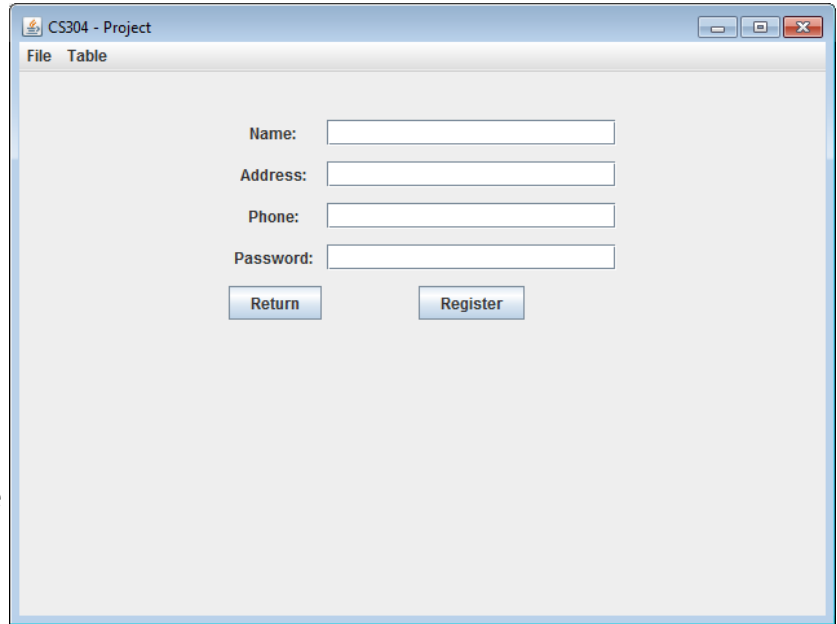


Customer Mode:

The main operation in the customer mode is to allow the completion of an online purchase. (This is the default view)

Registration:

Customers who access the store online for the first time have to register first by clicking on the “Register” button. The system will ask for the user's name, address, phone number and password. The address and phone fields are optional but the name and password are needed in order to add the customer to the database. (Internally, the system assigns a unique customer id for the customer). Customer may choose to go back to the log in page by clicking “Return”.



The screenshot shows a web browser window with the title 'CS304 - Project'. The browser's address bar shows 'File Table'. The main content area displays a registration form with the following fields and buttons:

- Name:
- Address:
- Phone:
- Password:
- Return button
- Register button

(See updated Customer table)

The user's name and password must be unique for each customer so therefore if the user name and password selected already exists in the system, the customer will be asked to pick new values by a pop up message and are redirected back to the registration page.

Once the system accepts the values, it will let the user know and will redirect the user back to the login page.

Purchase of an Online Item:

Login

Once registration is completed for the user, they are re-directed back to the main login page where they are asked to enter their name and password and press “Log In”. Once these match the values of an existing customer, they are admitted into the system.

Main Customer View

After the user is logged in, the screen is updated to the user's account containing their shopping cart. If this is the first time the user has accessed the page, then the cart will be empty. Whereas if this were a return visit, then the most recent unprocessed cart will be shown.

CS304 - Project

File Table

You're logged in as Rodrigo

Search Items Checkout Purchases

Cart:

UPC	TITLE	TYPE	PRICE	QUANTITY	TOTAL P...	
12...	Saturday Night Fever	DVD	35	2	70	x
12...	The Dark Side of the Moon	CD	10.23	2	20.46	x
12...	Sing that Song	DVD	0	2	0	x

Search:

From the Main Customer View, customers can press the “Search Items” button to look for items. This will change the view to one where customers can describe the item by providing the category, or the title, or the leading singer (or all of them).

CS304 - Project

File Table

You can search by any of the three fields below. Leave it blank to search for all items:

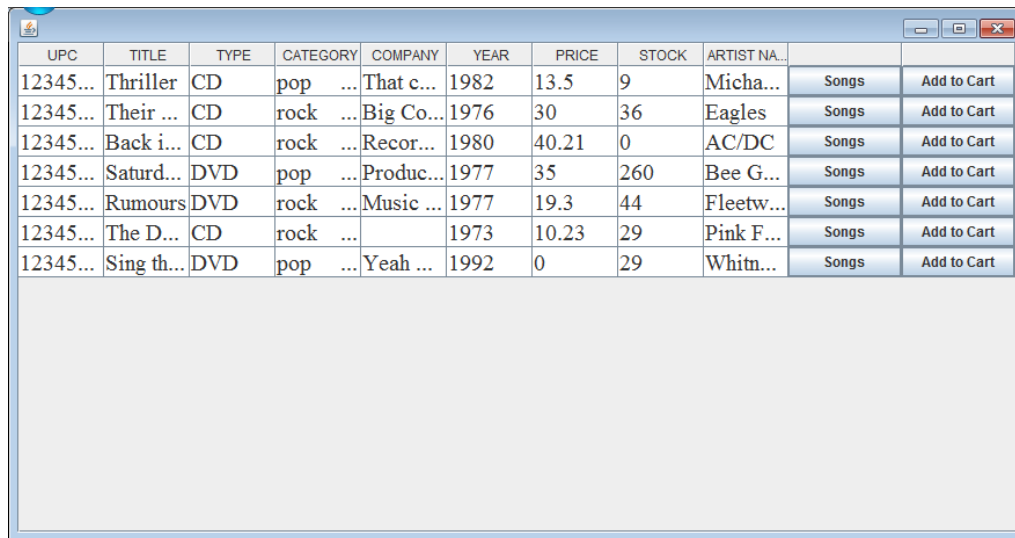
Category:

Album Title:

Artist Name:

Return Search Item

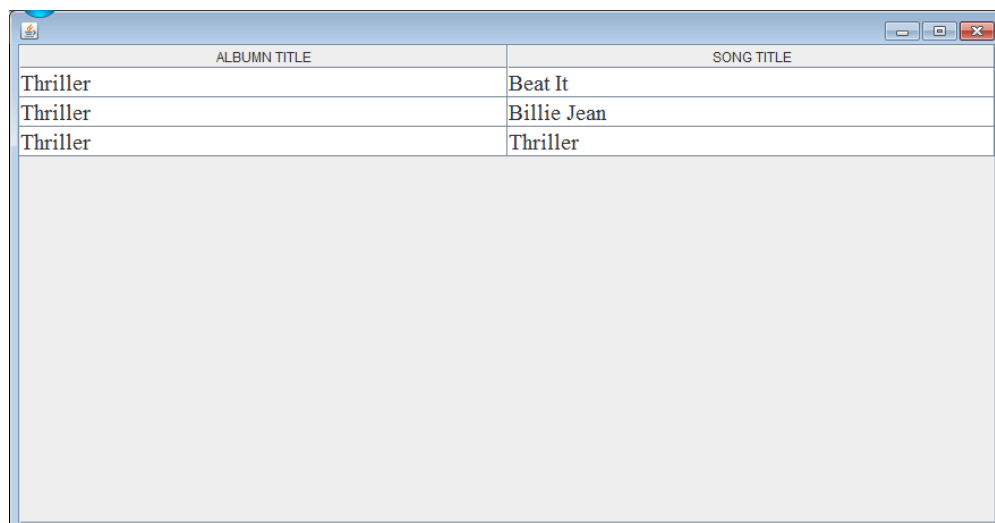
If there are no inputs, then the system outputs a new window with a table of all the items. Otherwise a new window with a table is generated, featuring all the items which fit the search refinements. For each search made, a new window with the results will show up with the current stock at the time of search.



UPC	TITLE	TYPE	CATEGORY	COMPANY	YEAR	PRICE	STOCK	ARTIST NA...		
12345...	Thriller	CD	pop ...	That c...	1982	13.5	9	Micha...	Songs	Add to Cart
12345...	Their ...	CD	rock ...	Big Co...	1976	30	36	Eagles	Songs	Add to Cart
12345...	Back i...	CD	rock ...	Recor...	1980	40.21	0	AC/DC	Songs	Add to Cart
12345...	Saturd...	DVD	pop ...	Produc...	1977	35	260	Bee G...	Songs	Add to Cart
12345...	Rumours	DVD	rock ...	Music ...	1977	19.3	44	Fleetw...	Songs	Add to Cart
12345...	The D...	CD	rock ...		1973	10.23	29	Pink F...	Songs	Add to Cart
12345...	Sing th...	DVD	pop ...	Yeah ...	1992	0	29	Whitn...	Songs	Add to Cart

Songs:

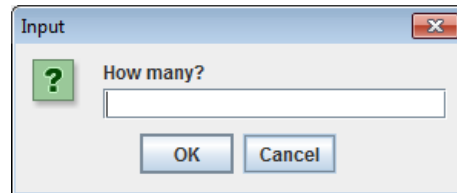
Users can find out what songs are included in the item by clicking on “Songs” from the search table. This will generate a new window with a list of song titles for the item.



ALBUM TITLE	SONG TITLE
Thriller	Beat It
Thriller	Billie Jean
Thriller	Thriller

Adding Items to Cart

Based on the items returned in the search results, customers can add items to their cart by pressing “Add to Cart”. This will prompt a pop up window which asks the customer the quantity they would like to add.



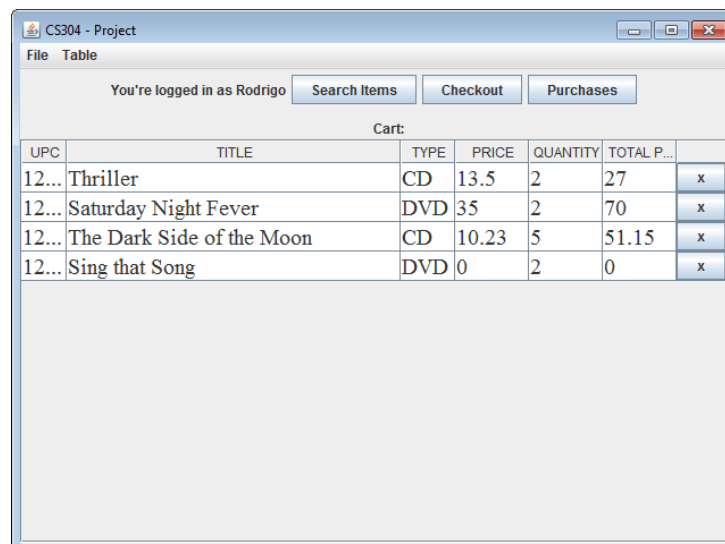
A small dialog box titled "Input" with a green question mark icon. It contains the text "How many?" followed by a text input field. At the bottom are two buttons: "OK" and "Cancel".

If the item is in stock, then a success message will show up and the customer's last search table will be shown.

If there are not enough stock to meet the quantity demanded, then the system will pop up with a message displaying the discrepancy between the amount requested and the amount in store. It will then give the customer an option to add the existing stock quantity to their cart (if there are any). It then returns back to the last search table where customers can continue to add more items.

Cart

From the search screen, customers need to press “return” to move back to the main customer view which includes the cart. This should show an updated cart. If items are not up to date, move to a different screen, then back to the main screen. Customers can add or remove items from their cart.



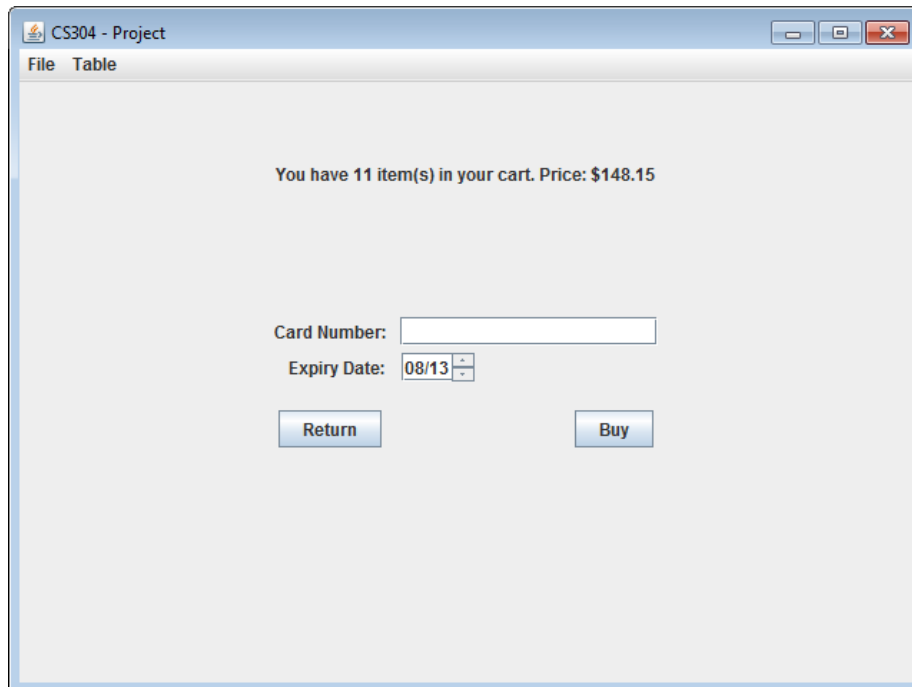
The screenshot shows a window titled "CS304 - Project" with a menu bar (File, Table) and a toolbar (Search Items, Checkout, Purchases). Below the toolbar, it says "You're logged in as Rodrigo". The main area is titled "Cart:" and contains a table with the following data:

UPC	TITLE	TYPE	PRICE	QUANTITY	TOTAL P...	
12...	Thriller	CD	13.5	2	27	x
12...	Saturday Night Fever	DVD	35	2	70	x
12...	The Dark Side of the Moon	CD	10.23	5	51.15	x
12...	Sing that Song	DVD	0	2	0	x

Checkout

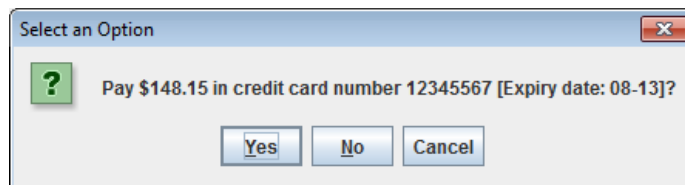
When the customer is satisfied with the items in their cart, they can press “checkout” found in the main customer view.

If there is adequate stock in the store to fulfill the cart order, the screen will update to indicate the total number of items and its total price of the cart. Customers are then asked to provide their credit card number and an expiry date. Press “buy” to complete the transaction.



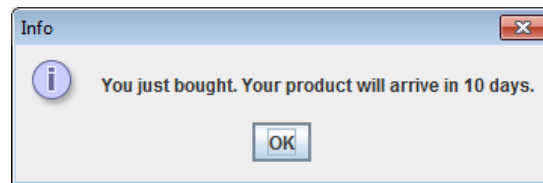
The screenshot shows a window titled "CS304 - Project" with a menu bar containing "File" and "Table". The main content area displays the text "You have 11 item(s) in your cart. Price: \$148.15". Below this, there are two input fields: "Card Number:" followed by a text box, and "Expiry Date:" followed by a date picker showing "08/13". At the bottom, there are two buttons: "Return" and "Buy".

A pop up window will summarize the transaction and customers can complete the purchase by choosing “yes.” If they choose “no” or “cancel”, they will return to the checkout screen.



The screenshot shows a small dialog box titled "Select an Option" with a close button in the top right corner. Inside the dialog, there is a green square icon with a white question mark. To the right of the icon, the text reads "Pay \$148.15 in credit card number 12345567 [Expiry date: 08-13]?". At the bottom of the dialog, there are three buttons: "Yes", "No", and "Cancel".

After choosing “yes” to complete the purchase, a screen will pop up indicating that the transaction was successful and how long the order will take to arrive based on the warehouse orders restrictions.



(See updated Purchase and Purchase Item tables.)

Purchase Record

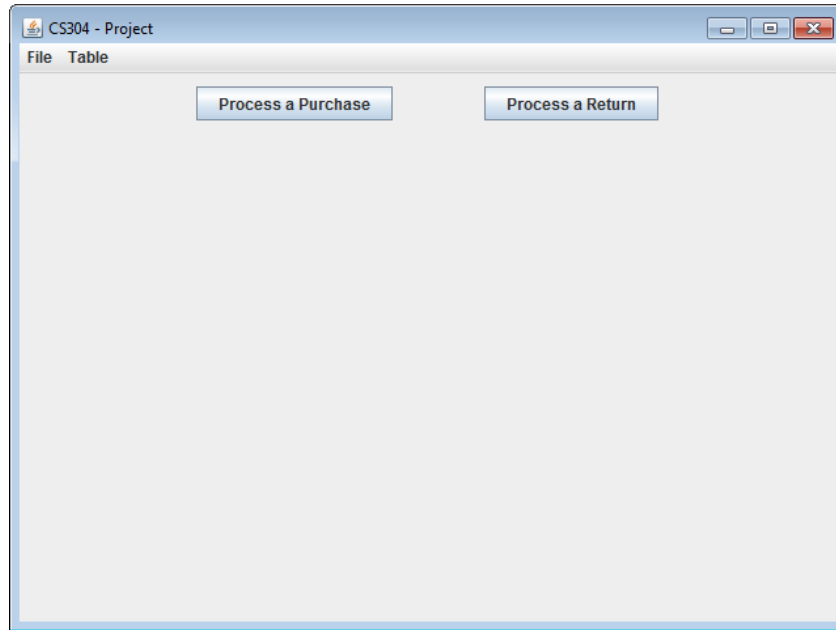
From the main screen, the customer can click on “Purchases” to see a record of their past purchases, including the expected delivery date of every order and the items ordered.

Past Purchases							
RECEIPT	TOTAL PRICE	NUMBER OF ITE...	PURCHASE DATE	CARD - LAST 5 ...	EXPECTED DATE	DELIVERED DATE	
3043000	425.36	20	03-JAN-11	91342		28-JAN-13	Show items
3032000	105	3	06-AUG-13	32432	16-AUG-13	11-AUG-13	Show items
19	20.46	2	06-AUG-13	23234	16-AUG-13	08-AUG-13	Show items
20	92.6	6	06-AUG-13	33333	16-AUG-13		Show items
21	148.15	11	08-AUG-13	45567	18-AUG-13		Show items

Items of purchase 21								
UPC	TITLE	TYPE	CATEGORY	COMPANY	YEAR	PRICE	QUANTITY	TOTAL PRICE
123456789	Thriller	CD	pop	That com...	1982	13.5	2	27
123456798	Saturday ...	DVD	pop	Produce ...	1977	35	2	70
123456804	The Dark...	CD	rock		1973	10.23	5	51.15
123456807	Sing that ...	DVD	pop	Yeah Co...	1992	0	2	0

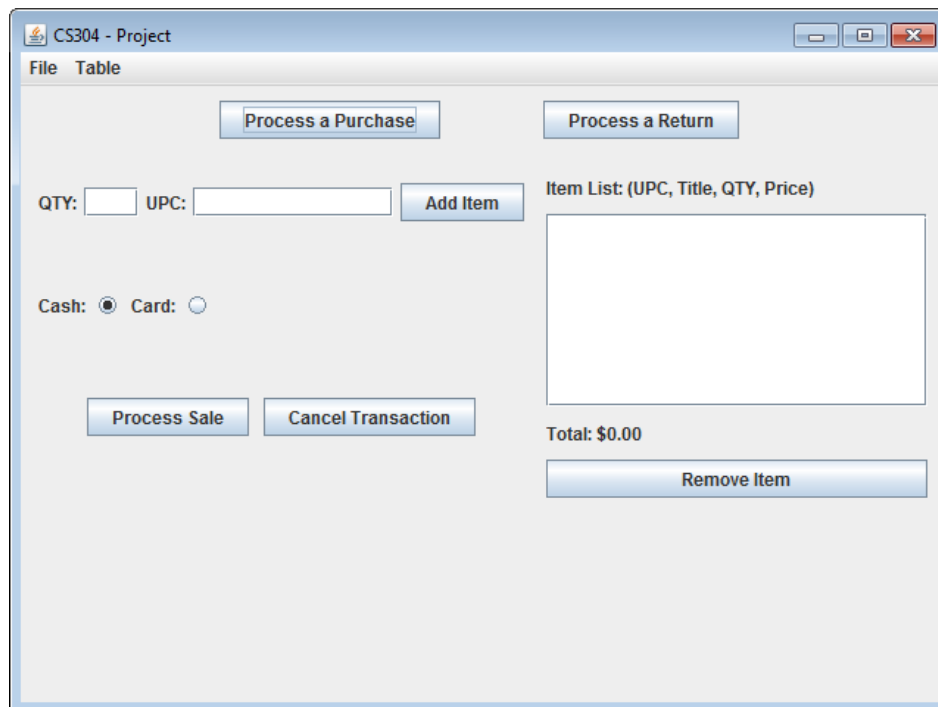
Clerk

The clerk mode can be accessed by clicking on “File” in the left-hand corner and selecting “Clerk Mode” from the drop-down menu.



Process the Purchase of in-store items

From the main clerk view, select “Process a Purchase.”



This will take the user to the purchase page and allow the user to enter the item's upc and quantity in order to make an in-store purchase. After this is provided, the left side of the screen should update with the item listed. More items can be added or removed with the "Add Item" and "Remove Item" buttons.

The screenshot shows a window titled "CS304 - Project" with a menu bar containing "File" and "Table". The window contains several buttons: "Process a Purchase" and "Process a Return" at the top; "Add Item" in the middle; "Process Sale" and "Cancel Transaction" at the bottom left; and "Remove Item" at the bottom right. On the left side, there are input fields for "QTY:" (with a value of 1) and "UPC:" (with a value of 123456795). Below these are radio buttons for "Cash:" and "Card:" (with "Card:" selected), followed by an empty text field and an "EXP:" field with the value "08/13". On the right side, there is a list box titled "Item List: (UPC, Title, QTY, Price)" containing two entries: "123456789, Thriller, 3, \$40.50" and "123456792, Their Greatest Hits, 1, \$30.00". Below the list box, it says "Total: \$70.50".

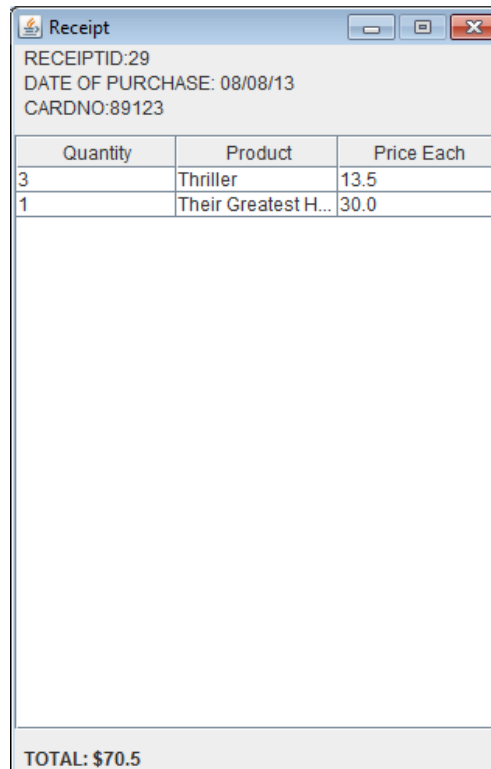
If there are not enough items in the stock to meet the quantity demanded, then the system will pop up with a message displaying the discrepancy between the amount requested and the amount in store. It then returns back to the purchase screen.

The screenshot shows an "Error" dialog box with a red "X" icon. The text inside the dialog box reads: "There's not enough items in the stock. You wanted 1. The stock has 0." There is an "OK" button at the bottom right of the dialog box.

Payment can either be by cash or credit card. If payment is by credit card, then the credit card number and expiry date must be provided before the sale can be processed. The transactions can be aborted by pressing "Cancel Transaction."

Upon completion of the sale, a Receipt will appear with the details of the transaction.

(See updated Purchase and Purchase Items table)



Receipt

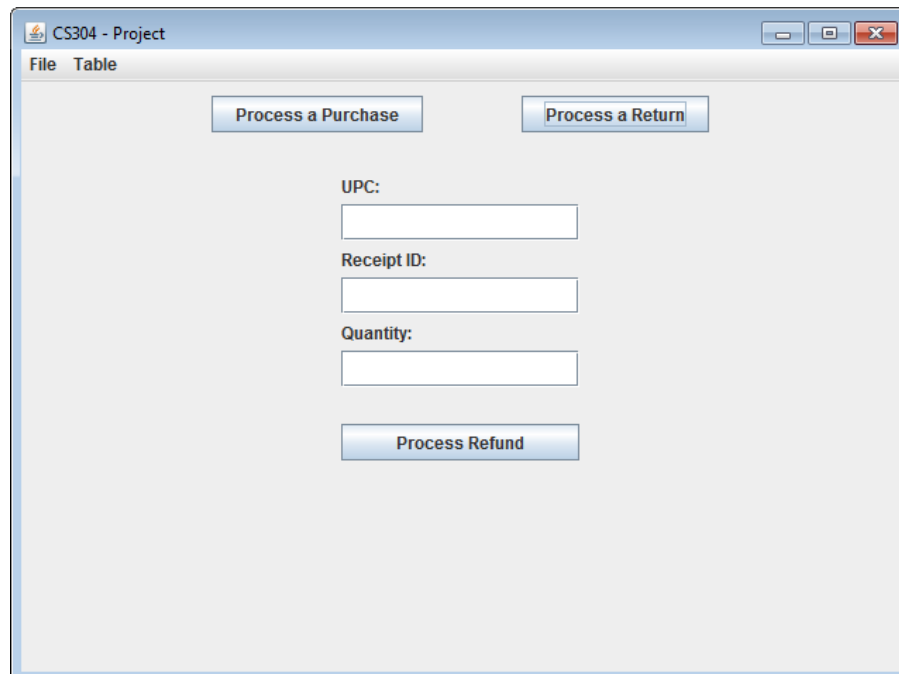
RECEIPTID:29
DATE OF PURCHASE: 08/08/13
CARDNO:89123

Quantity	Product	Price Each
3	Thriller	13.5
1	Their Greatest H...	30.0

TOTAL: \$70.5

Process the Return of an Item for refund

From the clerk view, select “Process a Return”.



CS304 - Project

File Table

Process a Purchase Process a Return

UPC:

Receipt ID:

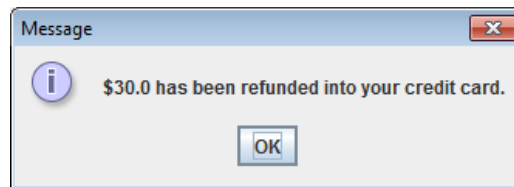
Quantity:

Process Refund

The updated screen will include fields where the clerk can enter the item's upc, receipt id and quantity in order to complete the transaction.

Proper values must be entered or an error message will appear.

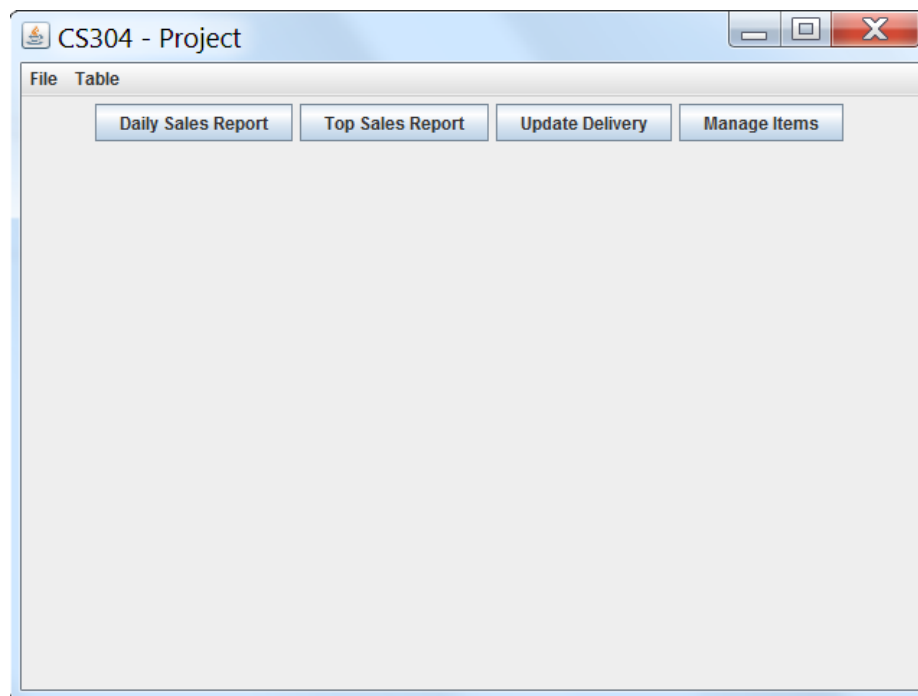
Upon completion, a pop up will show the total return value and the type of payment it made.



(After it is committed see updated Return, Return Item tables)

Manager

The manager mode can be accessed by clicking on “File” in the left-hand corner and selecting “Manager Mode” from the drop-down menu.



Add items to the store

From the manager view, press “Manage Items”. The display will update to show all the items in the store, and relevant information. It includes a search field where they can look for a specific item by its title.

CS304 - Project

File Table

Search title:

U...	TITLE	YEAR	PRICE	STOCK			
...	Thriller	1982	16	99	Price	Quantity	Delete
...	Their Greatest Hits	1976	30	35	Price	Quantity	Delete
...	Back in Black	1980	40.21	0	Price	Quantity	Delete
...	Saturday Night Fever	1977	35	250	Price	Quantity	Delete
...	Rumours	1977	19.3	42	Price	Quantity	Delete
...	The Dark Side of the Moon	1973	10.23	24	Price	Quantity	Delete
...	Sing that Song	1992	0	28	Price	Quantity	Delete
...	Never Say Never	2013	1.51	1	Price	Quantity	Delete
...	To Be Loved	2013	22.99	200	Price	Quantity	Delete

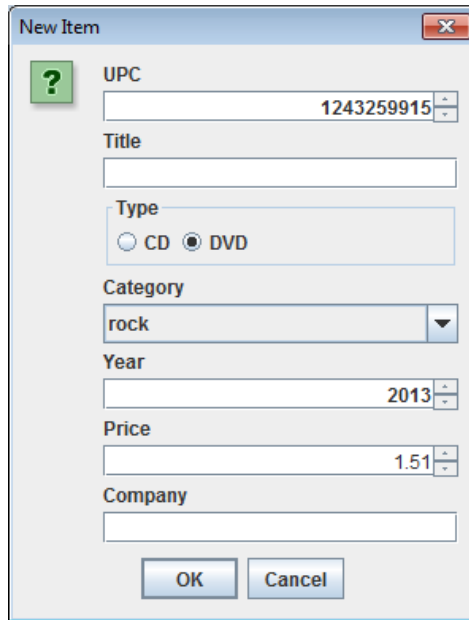
The manager can manually update the stock for an item through the “Quantity” button and update the price by pressing the “Price” button. They can also “Delete” an item from the database (if it is newly added and has no existing relationships with other entries in other tables).

Input

100

Select an Option

To add a new item to the store, press the “New Item” button. A upc will be automatically generated, but can be changed if needed. The manager must input the item's title, at the very least, in order to insert an item. The item's type, category, record year, price and company information can also be included.



A dialog box titled "New Item" with a close button (X) in the top right corner. It contains a green question mark icon on the left. The form fields are as follows:

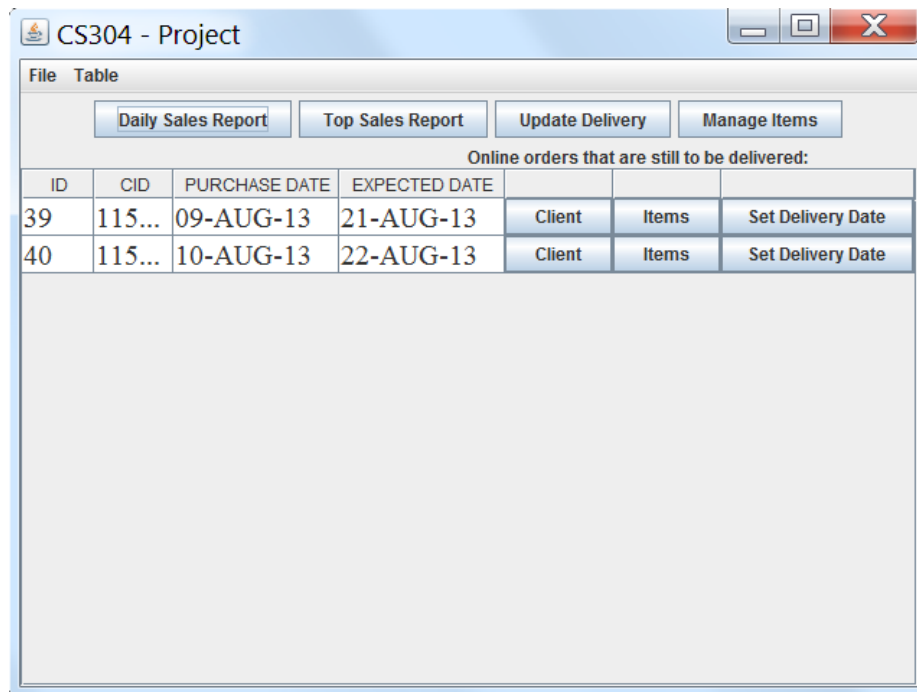
- UPC:** A text box containing "1243259915" with increment/decrement arrows on the right.
- Title:** An empty text box.
- Type:** A group box containing two radio buttons: "CD" (unselected) and "DVD" (selected).
- Category:** A dropdown menu showing "rock".
- Year:** A text box containing "2013" with increment/decrement arrows on the right.
- Price:** A text box containing "1.51" with increment/decrement arrows on the right.
- Company:** An empty text box.

At the bottom are "OK" and "Cancel" buttons.

Once a new item is added, the manager must press search again to see the updated item list.

Process the delivery of an order

Press the "Update Delivery" button from the manager view.



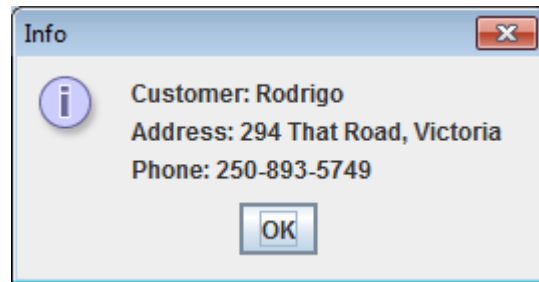
A window titled "CS304 - Project" with standard window controls (minimize, maximize, close). It features a menu bar with "File" and "Table". Below the menu bar are four buttons: "Daily Sales Report", "Top Sales Report", "Update Delivery", and "Manage Items".

Below the buttons is a section titled "Online orders that are still to be delivered:" followed by a table:

ID	CID	PURCHASE DATE	EXPECTED DATE			
39	115...	09-AUG-13	21-AUG-13	Client	Items	Set Delivery Date
40	115...	10-AUG-13	22-AUG-13	Client	Items	Set Delivery Date

The table has a large empty space below it.

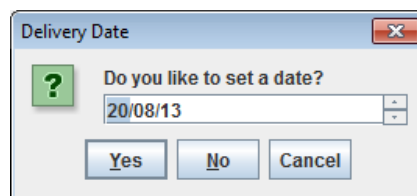
The manager can view information about the orders, the items that were purchased and the customer's information



A window titled 'Items of purchase 20' with a table of items. The table has columns for UPC, TITLE, TYPE, CATEGORY, COMPANY, YEAR, PRICE, QUANTITY, and TOTAL PRICE. Below the table is a large empty grey area.

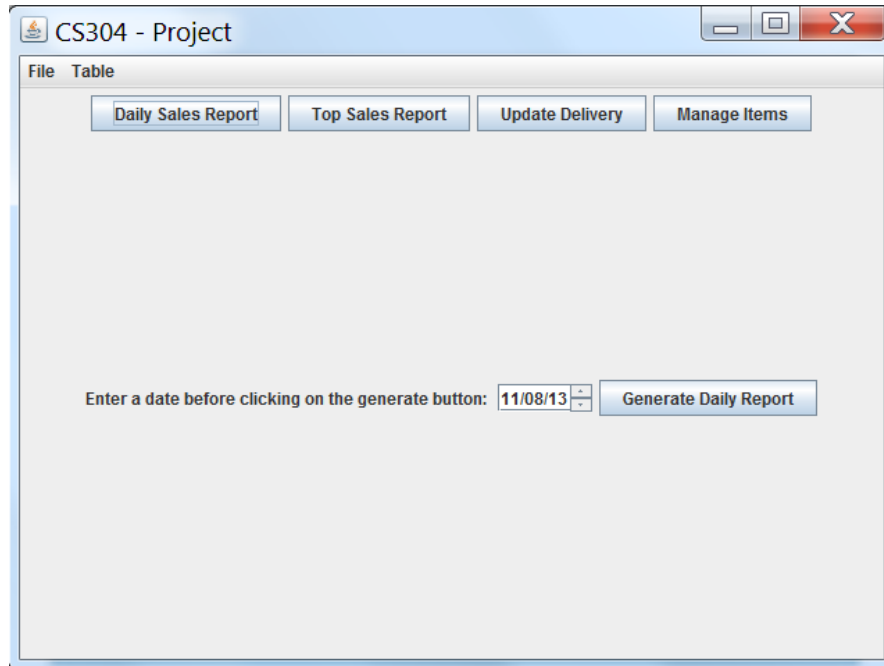
UPC	TITLE	TYPE	CATEGORY	COMPANY	YEAR	PRICE	QUANTITY	TOTAL PRICE
123456789	Thriller	CD	pop	That com...	1982	13.5	4	54
123456801	Rumours	DVD	rock	Music Co...	1977	19.3	2	38.6

After a delivery date is set, the screen updates that order is removed from the screen.



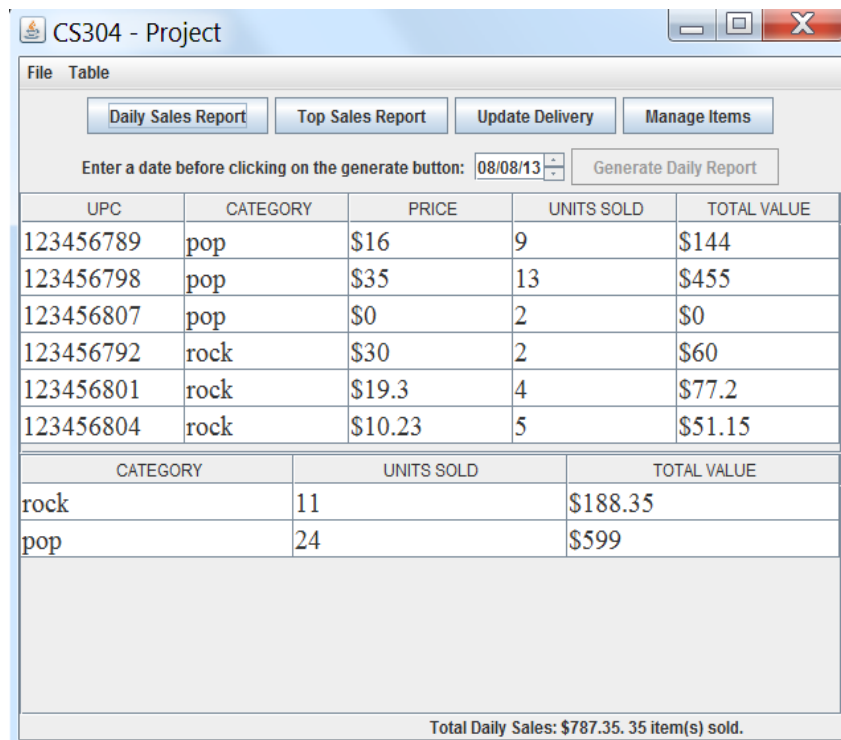
Generate daily sales report

From the manager view, press the “Daily Sales Report” button. The screen will update to for the manager to select a date and then press “Generate Daily Report”.



The screenshot shows a window titled "CS304 - Project" with a menu bar containing "File" and "Table". Below the menu bar are four buttons: "Daily Sales Report", "Top Sales Report", "Update Delivery", and "Manage Items". At the bottom, there is a text prompt "Enter a date before clicking on the generate button:" followed by a date input field showing "11/08/13" and a "Generate Daily Report" button.

After a date is selected, a report with the results are shown on the screen.



The screenshot shows the same window as before, but now displaying a sales report for the date 08/08/13. The report is presented in two tables. The first table lists individual items with their UPC, category, price, units sold, and total value. The second table summarizes the sales by category, showing the total units sold and total value for each category. At the bottom, a summary line states the total daily sales and the number of items sold.

UPC	CATEGORY	PRICE	UNITS SOLD	TOTAL VALUE
123456789	pop	\$16	9	\$144
123456798	pop	\$35	13	\$455
123456807	pop	\$0	2	\$0
123456792	rock	\$30	2	\$60
123456801	rock	\$19.3	4	\$77.2
123456804	rock	\$10.23	5	\$51.15

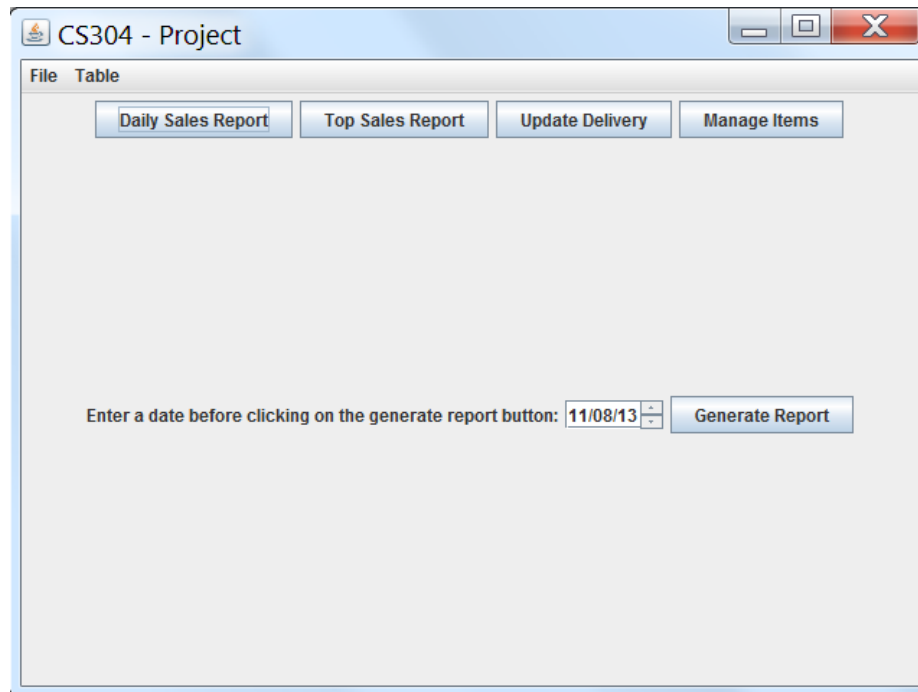
CATEGORY	UNITS SOLD	TOTAL VALUE
rock	11	\$188.35
pop	24	\$599

Total Daily Sales: \$787.35. 35 item(s) sold.

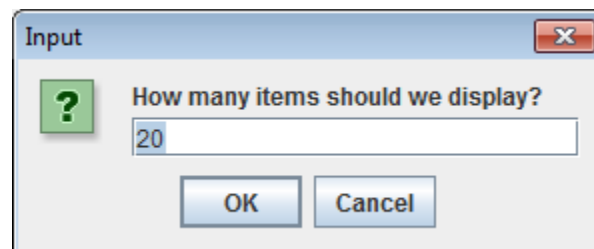
To generate a new report, click on “Daily Sales Report” again.

Generate report on top selling items

From the manger view, press the “Top Sales Report” button. Then indicate the date that the manager wishes to generate the report for and press “Generate Report”.



The manager needs to indicate how many items they want ranked. If the number picked exceeds the amount of items in the system, then all the items are ranked and the main screen is updated with the results.



Please look at SQL DOC.pdf for information on our tables and code.

CS304 - Project

File Table

Daily Sales Report Top Sales Report Update Delivery Manage Items

Enter a date before clicking on the generate report button: 08/08/13 Generate Report

RANK	TITLE	COMPANY	STOCK	SOLD
1	Saturday Night Fever	Produce Company	250	13
2	Thriller	That company	99	9
3	The Dark Side of the Moon		24	5
4	Rumours	Music Company	42	4
5	Their Greatest Hits	Big Company	35	2

To generate a new report, change the date and click "Generate Report"