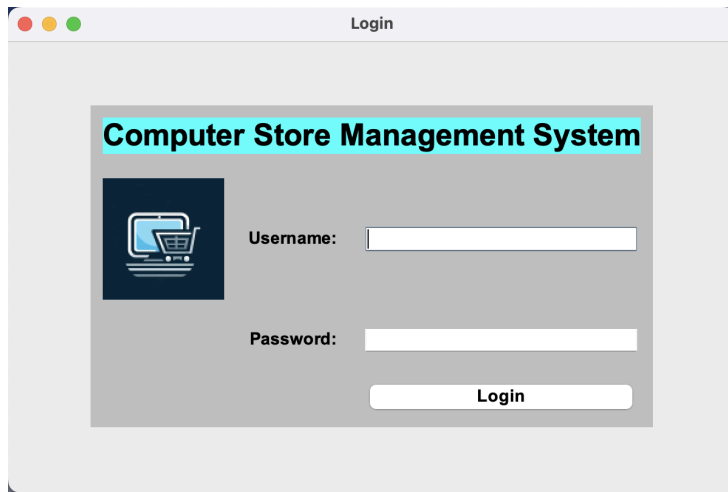


Computer Store Management System

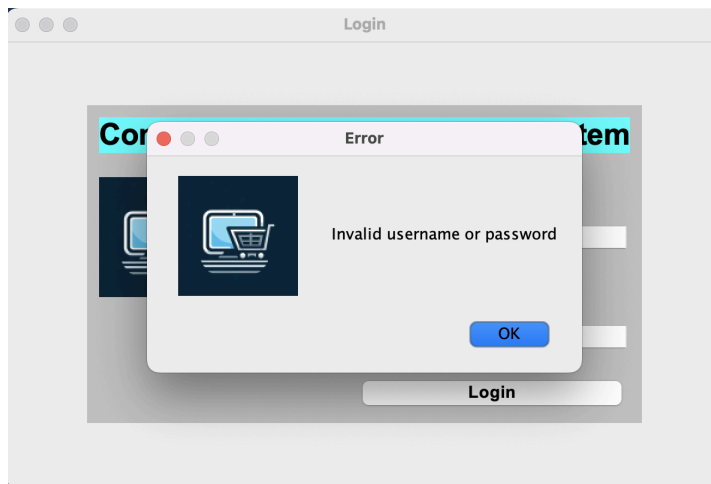
johnnycwatt

LoginFrame

When the program runs, it first displays the login page:



An error is displayed when the username and/or password are invalid:



MainFrame

Successful login results in the MainFrame being presented. The Title is Computer Store Management: + the Staff members username.

Salesperson View:

The screenshot shows the 'Salesperson View' of the 'Computer Store Management' application. The window title is 'Computer Store Management: p1'. It features a table of computer products and a sidebar with search filters.

Category	Type	ID	Brand	CPU	Price
Desktop...	Gaming	DTPCG2	DELL	Intel Cor...	8449.0
Desktop...	Gaming	DTPCG3	ASUS	AMD Ry...	2799.0
Desktop...	Gaming	DTPCG1	GGPC	Intel Cor...	2199.0
Tablet	Apple	TBAP3	APPLE	Apple	2499.0
Tablet	Apple	TBAP1	APPLE	Apple	819.0
Tablet	Apple	TBAP2	APPLE	Apple	878.0
Laptop	Business	LTB1	HP	Intel Cor...	1647.0
Laptop	Home &...	LTHS3	MICROS...	Intel Cor...	1189.0
Laptop	Business	LTB4	ASUS	Intel Cor...	1552.0
Desktop...	Compact	DTPCC4	LENOVO	AMD Ry...	1242.0
Laptop	Business	LTB3	LENOVO	AMD Ry...	1787.0
Laptop	Business	LTB2	APPLE	Apple	4299.0
Desktop...	Compact	DTPCC2	APPLE	Apple	1498.0
Desktop...	Compact	DTPCC3	HP	Intel Cor...	1555.0
Desktop...	Compact	DTPCC1	APPLE	Apple	1158.0
Desktop...	Home &...	DTPCHS3	PB	AMD Ry...	1099.0
Desktop...	Home &...	DTPCHS2	PB	Intel Cor...	1598.0
Desktop...	Home &...	DTPCHS1	PB	AMD Ry...	1263.0
Laptop	Thin & L...	LTSL1	APPLE	Apple	1728.0
Laptop	Thin & L...	LTSL2	APPLE	Apple	2499.0
Laptop	Home &...	LTHS1	APPLE	Apple	1728.0
Tablet	Windows	TBWD2	MICROS...	Intel Cor...	1798.0
Laptop	Home &...	LTHS2	LENOVO	Intel Cor...	954.0
Tablet	Windows	TBWD1	MICROS...	Intel Pen...	694.0
Laptop	Gaming	LTG2	HP	AMD Ry...	1307.0
Laptop	Gaming	LTG1	ASUS	Intel Cor...	1840.0

Search filters on the right:

- Computer Category: All
- Computer Type: All
- Model ID: [Text Input]
- Category: Desktop PC
- Type: [Dropdown]
- Brand: [Text Input]
- CPU Family: [Text Input]
- Memory Size (GB): [Text Input]
- SSD Capacity (GB): [Text Input]
- Screen Size (inches): [Text Input]
- Price (\$): [Text Input]

Logout button at the bottom.

Managers View:

The screenshot shows the 'Managers View' of the 'Computer Store Management' application. The window title is 'Computer Store Management: m1'. It features a table of computer products, a sidebar with search filters, and a bottom panel with management buttons.

Category	Type	ID	Brand	CPU	Price
Desktop...	Gaming	DTPCG2	DELL	Intel Cor...	8449.0
Desktop...	Gaming	DTPCG3	ASUS	AMD Ry...	2799.0
Desktop...	Gaming	DTPCG1	GGPC	Intel Cor...	2199.0
Tablet	Apple	TBAP3	APPLE	Apple	2499.0
Tablet	Apple	TBAP1	APPLE	Apple	819.0
Tablet	Apple	TBAP2	APPLE	Apple	878.0
Laptop	Business	LTB1	HP	Intel Cor...	1647.0
Laptop	Home &...	LTHS3	MICROS...	Intel Cor...	1189.0
Laptop	Business	LTB4	ASUS	Intel Cor...	1552.0
Desktop...	Compact	DTPCC4	LENOVO	AMD Ry...	1242.0
Laptop	Business	LTB3	LENOVO	AMD Ry...	1787.0
Laptop	Business	LTB2	APPLE	Apple	4299.0
Desktop...	Compact	DTPCC2	APPLE	Apple	1498.0
Desktop...	Compact	DTPCC3	HP	Intel Cor...	1555.0
Desktop...	Compact	DTPCC1	APPLE	Apple	1158.0
Desktop...	Home &...	DTPCHS3	PB	AMD Ry...	1099.0
Desktop...	Home &...	DTPCHS2	PB	Intel Cor...	1598.0
Desktop...	Home &...	DTPCHS1	PB	AMD Ry...	1263.0
Laptop	Thin & L...	LTSL1	APPLE	Apple	1728.0
Laptop	Thin & L...	LTSL2	APPLE	Apple	2499.0
Laptop	Home &...	LTHS1	APPLE	Apple	1728.0
Tablet	Windows	TBWD2	MICROS...	Intel Cor...	1798.0
Laptop	Home &...	LTHS2	LENOVO	Intel Cor...	954.0
Tablet	Windows	TBWD1	MICROS...	Intel Pen...	694.0
Laptop	Gaming	LTG2	HP	AMD Ry...	1307.0
Laptop	Gaming	LTG1	ASUS	Intel Cor...	1840.0

Search filters on the right:

- Computer Category: All
- Computer Type: All
- Model ID: [Text Input]
- Category: Desktop PC
- Type: [Dropdown]
- Brand: [Text Input]
- CPU Family: [Text Input]
- Memory Size (GB): [Text Input]
- SSD Capacity (GB): [Text Input]
- Screen Size (inches): [Text Input]
- Price (\$): [Text Input]

Bottom panel buttons: Add, Update, Delete, Logout.

The bottom panel contains more buttons for the Managers View, giving Managers access to 'Add', 'Update', and 'Delete' functions

Both Salespeople and Managers are able to view the specifications of each Computer. When selecting a row, the information appears on the right hand side.

Computer Store Management: p1

Computer Category

All

Computer Type

All

Category	Type	ID	Brand	CPU	Price
Desktop...	Gaming	DTPCG2	DELL	Intel Cor...	8449.0
Desktop...	Gaming	DTPCG3	ASUS	AMD Ry...	2799.0
Desktop...	Gaming	DTPCG1	GGPC	Intel Cor...	2199.0
Tablet	Apple	TBAP3	APPLE	Apple	2499.0
Tablet	Apple	TBAP1	APPLE	Apple	819.0
Tablet	Apple	TBAP2	APPLE	Apple	878.0
Laptop	Business	LTB1	HP	Intel Cor...	1647.0
Laptop	Home &...	LTHS3	MICROS...	Intel Cor...	1189.0
Laptop	Business	LTB4	ASUS	Intel Cor...	1552.0
Desktop...	Compact	DTPCC4	LENOVO	AMD Ry...	1242.0
Laptop	Business	LTB3	LENOVO	AMD Ry...	1787.0
Laptop	Business	LTB2	APPLE	Apple	4299.0
Desktop...	Compact	DTPCC2	APPLE	Apple	1498.0
Desktop...	Compact	DTPCC3	HP	Intel Cor...	1555.0
Desktop...	Compact	DTPCC1	APPLE	Apple	1158.0
Desktop...	Home &...	DTPCHS3	PB	AMD Ry...	1099.0
Desktop...	Home &...	DTPCHS2	PB	Intel Cor...	1598.0
Desktop...	Home &...	DTPCHS1	PB	AMD Ry...	1263.0
Laptop	Thin & L...	LTSL1	APPLE	Apple	1728.0
Laptop	Thin & L...	LTSL2	APPLE	Apple	2499.0
Laptop	Home &...	LTHS1	APPLE	Apple	1728.0
Tablet	Windows	TBWD2	MICROS...	Intel Cor...	1798.0
Laptop	Home &...	LTHS2	LENOVO	Intel Cor...	954.0
Tablet	Windows	TBWD1	MICROS...	Intel Pen...	694.0
Laptop	Gaming	LTG2	HP	AMD Ry...	1307.0
Laptop	Gaming	LTG1	ASUS	Intel Cor...	1840.0

Model ID:

DTPCC1

Category:

Desktop PC

Type:

Compact

Brand:

APPLE

CPU Family:

Apple

Memory Size (GB):

8

SSD Capacity (GB):

256

Screen Size (inches):

Price (\$):

1158.0

Logout

Both are able to filter by Category and/or by Type.

Computer Store Management: p1

Computer Category

Desktop PC

Computer Type

All

Category	Type	ID	Brand	CPU	Price
Desktop...	Gaming	DTPCG2	DELL	Intel Cor...	8449.0
Desktop...	Gaming	DTPCG3	ASUS	AMD Ry...	2799.0
Desktop...	Gaming	DTPCG1	GGPC	Intel Cor...	2199.0
Desktop...	Compact	DTPCC4	LENOVO	AMD Ry...	1242.0
Desktop...	Compact	DTPCC2	APPLE	Apple	1498.0
Desktop...	Compact	DTPCC3	HP	Intel Cor...	1555.0
Desktop...	Compact	DTPCC1	APPLE	Apple	1158.0
Desktop...	Home & ...	DTPCHS3	PB	AMD Ry...	1099.0
Desktop...	Home & ...	DTPCHS2	PB	Intel Cor...	1598.0
Desktop...	Home & ...	DTPCHS1	PB	AMD Ry...	1263.0
Desktop...	Business	DTPCB3	LENOVO	AMD Ry...	1242.0
Desktop...	Business	DTPCB4	HP	Intel Cor...	1006.0
Desktop...	Business	DTPCB1	PB	Intel Cor...	1498.0
Desktop...	Business	DTPCB2	HP	Intel Cor...	1555.0

Model ID:

DTPCC1

Category:

Desktop PC

Type:

Compact

Brand:

APPLE

CPU Family:

Apple

Memory Size (GB):

8

SSD Capacity (GB):

256

Screen Size (inches):

Price (\$):

1158.0

Logout

Manager Functions : Add Button

The screenshot shows a window titled "Add New Computer" with a "Management: m1" header. On the left, there is a list of computer models with columns for Category, Type, Brand, CPU Family, Memory Size (GB), SSD Capacity (GB), Screen Size (inches), and Price (\$). The list includes models like Desktop... Home &... DTPCHS1 PB AMD Ry... 1263.0, Laptop Thin & L... LTSL1 APPLE Apple 1728.0, and Laptop Gaming LTG1 ASUS Intel Cor... 1840.0. On the right, there is a detailed view of the selected model, DTPCHS3, which is a Desktop PC, Home & Study type, PB brand, AMD Ryzen 7 CPU, 16 GB Memory, 512 GB SSD, and 1099.0 Price. At the bottom, there are buttons for Add, Update, Delete, and Logout.

Category	Type	Brand	CPU Family	Memory Size (GB)	SSD Capacity (GB)	Screen Size (inches)	Price (\$)
Desktop...	Home &...	DTPCHS1	PB	AMD Ry...	1263.0		
Laptop	Thin & L...	LTSL1	APPLE	Apple	1728.0		
Laptop	Thin & L...	LTSL2	APPLE	Apple	2499.0		
Laptop	Home &...	LTSH1	APPLE	Apple	1728.0		
Tablet	Windows	TBWD2	MICROS...	Intel Cor...	1798.0		
Laptop	Home &...	LTSH2	LENOVO	Intel Cor...	954.0		
Tablet	Windows	TBWD1	MICROS...	Intel Pen...	694.0		
Laptop	Gaming	LTG2	HP	AMD Ry...	1307.0		
Laptop	Gaming	LTG1	ASUS	Intel Cor...	1840.0		

When a Manager clicks the Add Button. A new 'Add New Computer' window appears. The manager is able to enter the details, and select from a dropdown of Category and Type

The screenshot shows the "Add New Computer" window with the "Category" dropdown set to "Tablet" and the "Type" dropdown set to "Apple". The "Brand" field is empty. The "CPU Family", "Memory Size (GB)", "SSD Capacity (GB)", "Screen Size (inches)", and "Price (\$)" fields are grayed out. The "Save" button is disabled, and the "Cancel" button is active.

When a Category is selected, the irrelevant fields are grayed out, and any text previously entered is removed to remain consistent. Selecting Desktop PC will disable Screen Size while Laptop will enable all fields. The Save Button is disabled until all relevant fields are selected.

After clicking Save, a 'Success' message will appear in a new window. Pressing 'OK' will close both the 'Success' message and the 'Add New Computer' window. Pressing Cancel will simply close the 'Add New Computer' window and no changes will be made

Add New Computer Management: m1

Model ID: M4CKB00K

Category: Desktop PC

Type: Gaming

Brand: Apple

CPU Family: Apple

Memory Size (GB): 128

SSD Capacity (GB): 512

Screen Size (inches):

Price (\$): 2999

Save Cancel

Success

The record for the computer has been added successfully

OK

Add Update Delete Logout

The new entry will now appear in the table.

Computer Store Management: m1

Computer Category: All

Computer Type: All

Category	Type	ID	Brand	CPU	Price
Laptop	Home &...	LTHS3	MICROS...	Intel Cor...	1189.0
Laptop	Thin & L...	LTHS1	ASUS	Intel Cor...	1552.0
Laptop	Thin & L...	LTHS2	ASUS	Intel Cor...	1552.0
Laptop	Home &...	LTHS1	APPLE	Apple	1728.0
Tablet	Windows	TBWD2	MICROS...	Intel Cor...	1798.0
Laptop	Home &...	LTHS2	LENOVO	Intel Cor...	954.0
Tablet	Windows	TBWD1	MICROS...	Intel Pen...	694.0
Laptop	Gaming	LTG2	HP	AMD Ry...	1307.0
Laptop	Gaming	LTG1	ASUS	Intel Cor...	1840.0
Desktop...	Business	DTPCB3	LENOVO	AMD Ry...	1242.0
Desktop...	Business	DTPCB4	HP	Intel Cor...	1006.0
Desktop...	Business	DTPCB1	PB	Intel Cor...	1498.0
Desktop...	Business	DTPCB2	HP	Intel Cor...	1555.0
Tablet	Android	TBAD1	LENOVO	Snapdra...	214.0
Tablet	Android	TBAD2	LENOVO	Mediatek	578.0
Desktop...	Gaming	M4CKB0...	Apple	Apple	2999.0

Model ID: M4CKB00K

Category: Desktop PC

Type: Gaming

Brand: Apple

CPU Family: Apple

Memory Size (GB): 128

SSD Capacity (GB): 512

Screen Size (inches):

Price (\$): 2999.0

Add Update Delete Logout

Manager Functions: Update Button

Clicking the Update button will open a 'Update Item' window. The manager is able to edit any of the specs. Including changing the Category or Type. While it may be unnecessary to edit fixed specifications such as Screen Size or CPU Family, it may be appropriate when there are errors in the input data. With access to update functions being limited to Managers, it is reasonable to assume it will be used responsibly

Update Item

Management: m1

Model ID: M4CKB00K

Category: Desktop PC

Type: Gaming

Brand: Apple

CPU Family: Apple

Memory Size (GB): 128

SSD Capacity (GB): 512

Screen Size (inches):

Price (\$): 2999.0

Save Cancel

Laptop	Gaming	LTG2	HP	AMD Ry...	1307.0
Laptop	Gaming	LTG1	ASUS	Intel Cor...	1840.0
Desktop...	Business	DTPCB3	LENOVO	AMD Ry...	1242.0
Desktop...	Business	DTPCB4	HP	Intel Cor...	1006.0
Desktop...	Business	DTPCB1	PB	Intel Cor...	1498.0
Desktop...	Business	DTPCB2	HP	Intel Cor...	1555.0
Tablet	Android	TBAD1	LENOVO	Snapdra...	214.0
Tablet	Android	TBAD2	LENOVO	Mediatek	578.0
Desktop...	Gaming	M4CKB0...	Apple	Apple	2999.0

Add Update Delete Logout

Clicking save will generate a 'Success' message confirming that the computer details have been updated.

Update Item

Management: m1

Model ID: M4CKB00K

Category: Desktop PC

Type: Gaming

Brand: Apple

CPU Family: Apple

Memory Size (GB): 128

SSD Capacity (GB): 512

Screen Size (inches):

Price (\$): 2499.0

Save Cancel

Success

The record for the computer has been updated successfully

OK

Add Update Delete Logout

Manager Functions: Delete Button

A manager is able to delete a computer by clicking on the row and clicking the 'Delete' button.

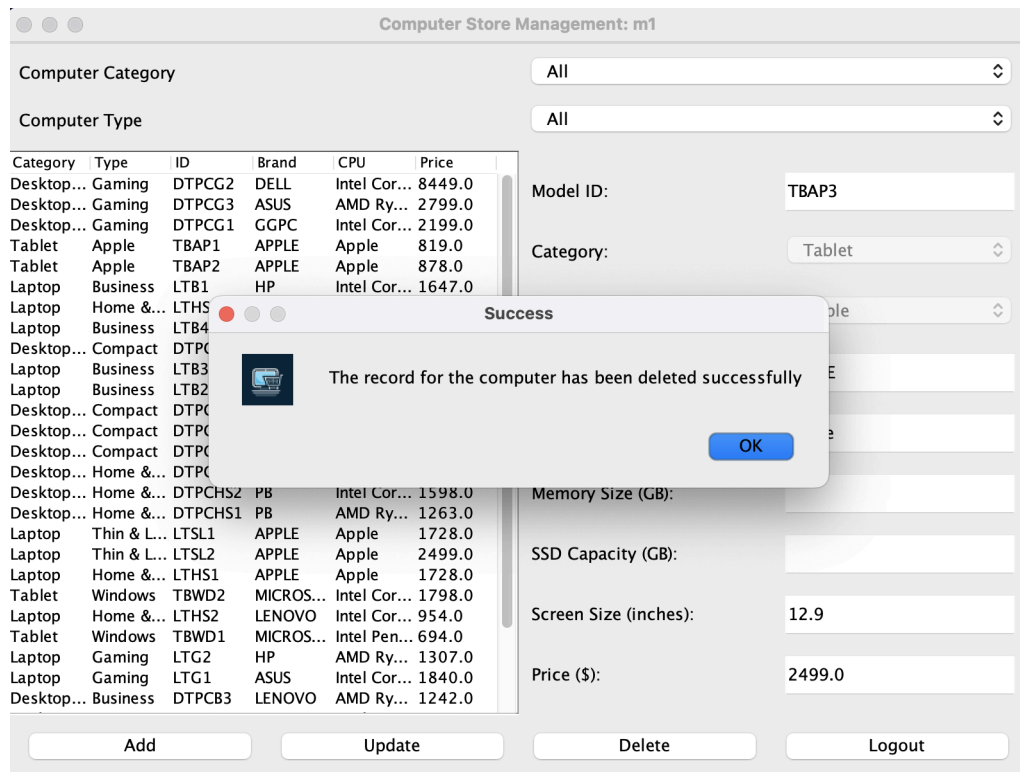
The screenshot shows the 'Computer Store Management: m1' application. It features a table with columns: Category, Type, ID, Brand, CPU, and Price. The row for 'Tablet', 'Apple', 'TBAP3', 'APPLE', 'Apple', and '2499.0' is selected. To the right of the table are several input fields for details: Model ID (TBAP3), Category (Tablet), Type (Apple), Brand (APPLE), CPU Family (Apple), Memory Size (GB), SSD Capacity (GB), Screen Size (inches) (12.9), and Price (\$) (2499.0). At the bottom, there are four buttons: Add, Update, Delete, and Logout.

Category	Type	ID	Brand	CPU	Price
Desktop...	Gaming	DTPCG2	DELL	Intel Cor...	8449.0
Desktop...	Gaming	DTPCG3	ASUS	AMD Ry...	2799.0
Desktop...	Gaming	DTPCG1	GGPC	Intel Cor...	2199.0
Tablet	Apple	TBAP3	APPLE	Apple	2499.0
Tablet	Apple	TBAP1	APPLE	Apple	819.0
Tablet	Apple	TBAP2	APPLE	Apple	878.0
Laptop	Business	LTB1	HP	Intel Cor...	1647.0
Laptop	Home &...	LTHS3	MICROS...	Intel Cor...	1189.0
Laptop	Business	LTB4	ASUS	Intel Cor...	1552.0
Desktop...	Compact	DTPCC4	LENOVO	AMD Ry...	1242.0
Laptop	Business	LTB3	LENOVO	AMD Ry...	1787.0
Laptop	Business	LTB2	APPLE	Apple	4299.0
Desktop...	Compact	DTPCC2	APPLE	Apple	1498.0
Desktop...	Compact	DTPCC3	HP	Intel Cor...	1555.0
Desktop...	Compact	DTPCC1	APPLE	Apple	1158.0
Desktop...	Home &...	DTPCHS3	PB	AMD Ry...	1099.0
Desktop...	Home &...	DTPCHS2	PB	Intel Cor...	1598.0
Desktop...	Home &...	DTPCHS1	PB	AMD Ry...	1263.0
Laptop	Thin & L...	LTSL1	APPLE	Apple	1728.0
Laptop	Thin & L...	LTSL2	APPLE	Apple	2499.0
Laptop	Home &...	LTHS1	APPLE	Apple	1728.0
Tablet	Windows	TBWD2	MICROS...	Intel Cor...	1798.0
Laptop	Home &...	LTHS2	LENOVO	Intel Cor...	954.0
Tablet	Windows	TBWD1	MICROS...	Intel Pen...	694.0
Laptop	Gaming	LTG2	HP	AMD Ry...	1307.0
Laptop	Gaming	LTG1	ASUS	Intel Cor...	1840.0

A confirmation window appears to protect users from accidentally clicking the deletion button. It displays the selected items ID to make sure the user has selected the right row.

This screenshot shows the same application as before, but with a 'Confirm Deletion' dialog box overlaid. The dialog box contains a small icon of a computer and the text 'Are you sure you would like to delete: TBAP3?'. It has two buttons: 'Cancel' and 'Delete'. The background application is slightly dimmed, showing the same table and details as in the previous screenshot.

When the user clicks delete, a message appears confirming that the item (in this case TBAP3) has been deleted. It is removed from the table.



Logout

Both Salespeople and Managers have a Logout button. Clicking this button returns the user to the LoginFrame

