



Module: GUI Design and Database Connection

Module Code: COMP4604

Course Code: TU819/4

Course Group: Group A/B

Student Names: Jason Leonard & Brian Twene

Student IDs: C19500766, C19344543

Submission Date: 04/12/2022

Topic: Vehicle Dealership/Rental System

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Introduction

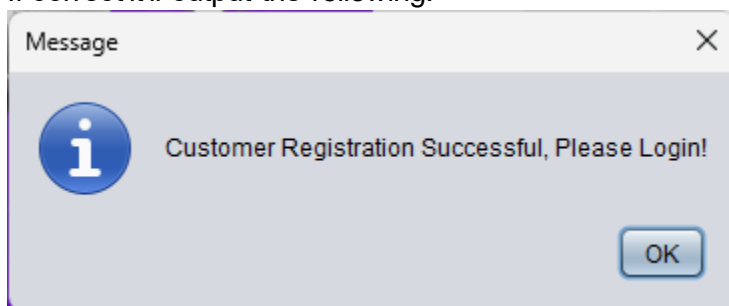
This test record document is based on a software solution for a vehicle dealership which allows a user to both purchase vehicles, rent vehicles and return vehicles when they're finished using them. Additionally, the program also allows an admin to alter a user's and vehicles table which is located within a Microsoft Access database, and allows the admin to add, edit, and remove information from their respective tables. Our application also features stock and inventory control and allows management to print a list of users and a list of our stock and inventory. Lastly, an admin is also able to use this program to check overdue accounts for people who have not returned their rented vehicle.

Register Page (Customer)




The screenshot displays the 'REGISTER' page of the J&B's Dealership application. On the left, a purple banner features the dealership's logo, a silver sports car, and the text 'J&B'S DEALERSHIP' and 'EST. 2022'. Below the banner are two buttons: 'Login Page' and 'Reset Password'. On the right, the 'REGISTER' title is in large, bold, purple letters. Below it are five input fields: a phone number field containing '111', a username field containing 'JohnBingo', a password field containing '*****', a first name field containing 'John', and a last name field containing 'Bingo'. A 'Register' button is positioned at the bottom right of the form area. A red 'X' icon is visible in the top right corner of the page.

If correct it'll output the following:



Login Page (Customer)



The left side of the login page features a purple background with a white car in the center. The text "J&B'S DEALERSHIP" is arched over the car, and "EST. 2022" is below it. At the bottom, there are two buttons: "Register Page" and "Reset Password".

LOGIN

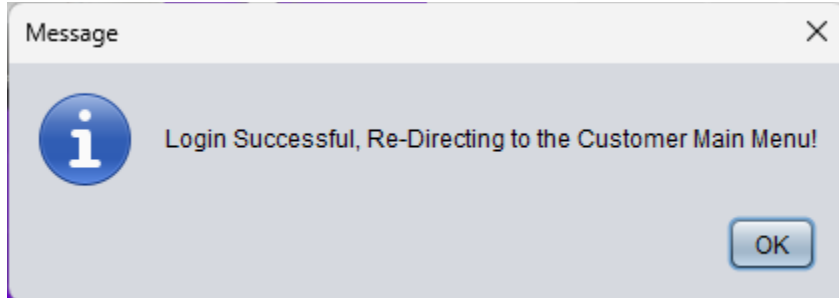
JohnBingo

.....
(Current Password)

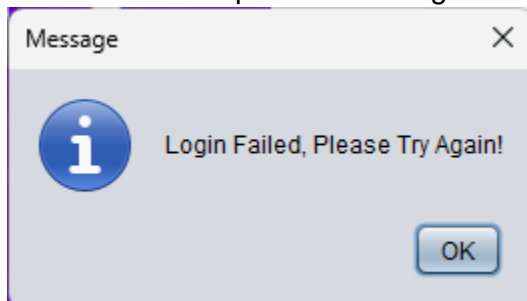
Customer

Login


If correct it'll output the following:



If incorrect it'll output the following:



Reset Password Page (Customer)



J&B'S DEALERSHIP
EST. 2022

[Login Page](#) [Register Page](#)

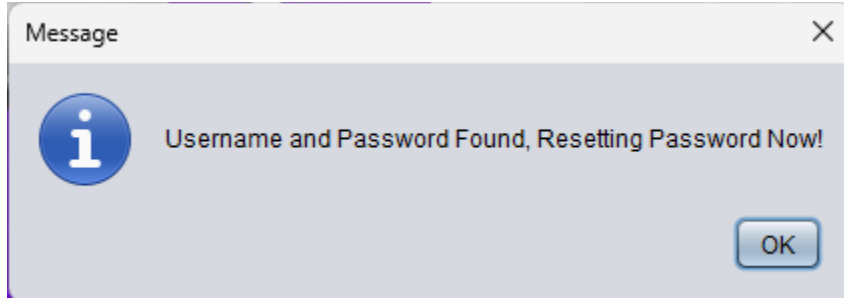
RESET

(Old Password)

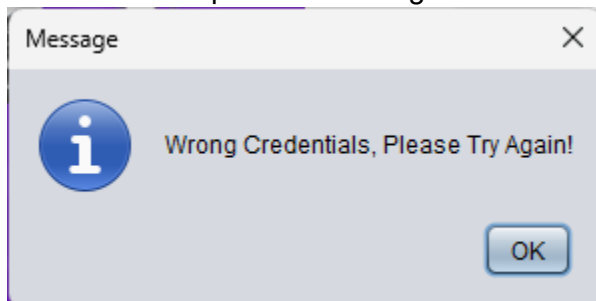
(New Password)

Reset

If correct it'll output the following:



If correct it'll output the following:



Main Menu Page (Customer)

**RENT & PURCHASE
VEHICLES**



Click the Car to Rent & Purchase Vehicles

Logout

Exit Program

Home Page (Customer)

Rent a Car

J&B Dealership


HomeRentalsPurchase

Hi John Smith

Awesome price.

Car Rental &

Purchase



Location

J&B Dealership, Dublin

Pickup Date

15 December 2022

...

Return Date

24 December 2022

...

GO

Rental / Purchases Page (Customer)

J&B Dealership

Home Rentals **Purchase** Login

Filter By

Vehicle Type

- ☐ Sport
- ☐ Sedan
- ☐ Compact
- ☐ Super
- ☐ Electric
- ☐ SUV
- ☐ Hyper
- ☐ Hybrid

Class

- ☐ Budget
- ☐ Standard
- ☐ Premium
- ☐ Luxury

Max Price

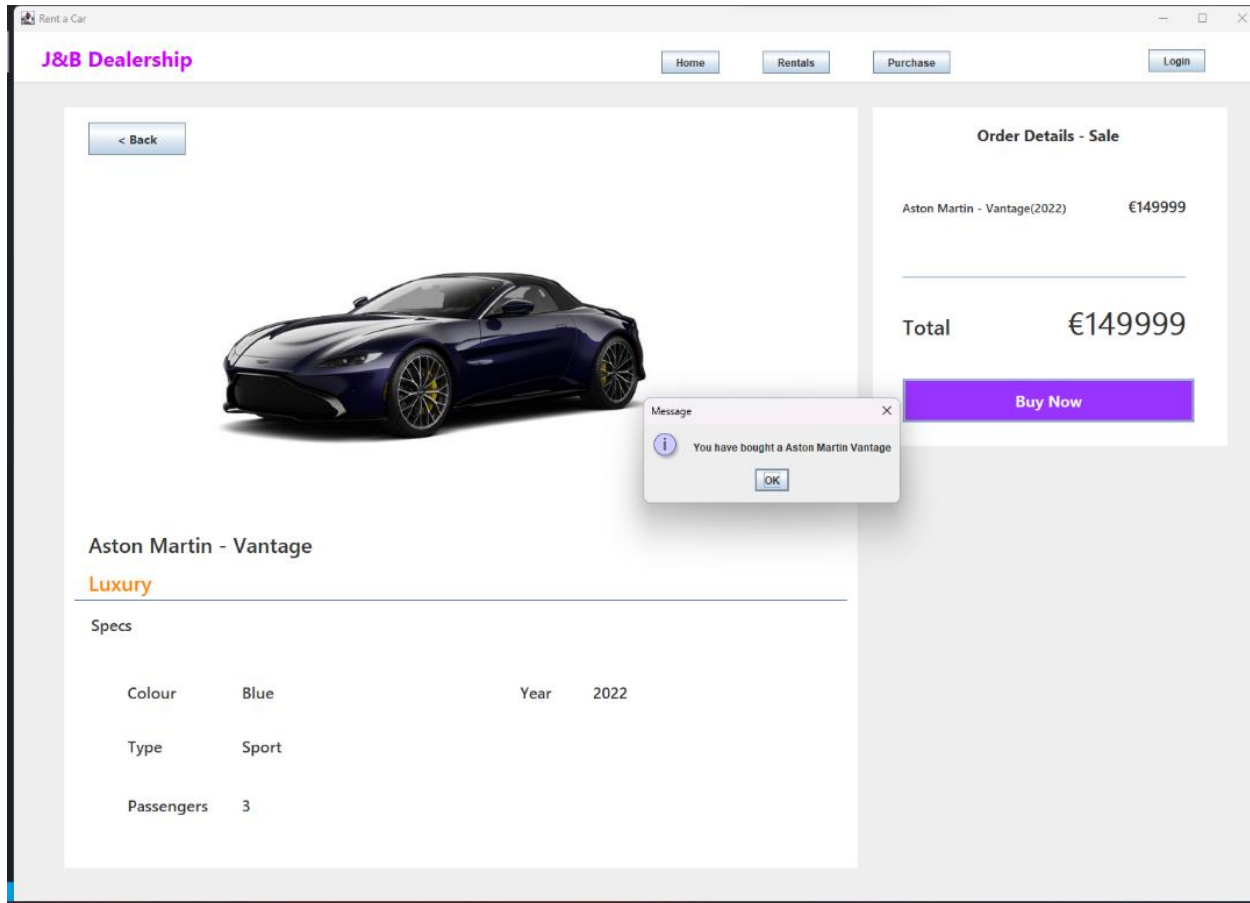
€300000

Reset

Vehicle Type	Class	Vehicle Name	Price	Action
Luxury		Aston Martin Vantage (2022)	€149999 per day	Buy
Premium		Alfa Romeo 4C (2018)	€49999 per day	Buy
Standard		Toyota Camry (2020)	€39999 per day	Buy
Budget	Budget	Toyota Yaris (2016)	€14999 per day	Buy
Budget	Budget	BMW M5 (2010)	€9999 per day	Buy
Premium	Premium	Land Rover Discovery Sport (2021)	€250 per day	Rent
Standard	Standard	Toyota CH-R (2022)	€190 per day	Rent

Here we'll click "Buy" on the "Luxury" vehicle.

Purchasing a Vehicle (Customer)



The vehicle once we pressed “Buy Now” has been added to the “Purchase” table.

The screenshot shows the 'All Access Objects' window with the 'Purchase' table selected. The table has the following columns: PurchaseID, UserID, VehicleID, VehiclePrice, and Click to Add. The data rows are as follows:

PurchaseID	UserID	VehicleID	VehiclePrice	Click to Add
1	5	4	39999	
2	2	1	149999	
(New)				

After we've clicked on the “Luxury” vehicle it shows the above, and when we click “Buy Now” it'll add the car into the “Purchase” table.

Current Rentals (Customer)

J&B Dealership Home Rentals Purchase Hi John Smith

Account

- Details
- History
- Current Rentals

Rental Overview

Alfa Romeo - 4C

Days Left
7

Return

Select Location
Dublin Airport

Return

Return Vehicle

Are you sure you want to return this car?

Yes No

We choose our location and then click “Return”.

Message

Done

OK

Afterwards we then have to confirm our option and we get this dialog above, stating “OK”.

J&B Dealership Home Rentals Purchase Hi John Smith

Account

- Details
- History
- Current Rentals


History

Rental Purchase

RentalID	Pickup Date	Return Date	Days Rented	Make	Model	Type
2022-12-07	2022-12-14	7	Alfa Romeo	4C	Sport	

Once we press “OK”, the vehicle gets added into our “Rental” history. The same occurs for when we purchase a vehicle, it then gets added into our “Purchase” history.

Login Page (Admin)



J&B'S DEALERSHIP
EST. 2022

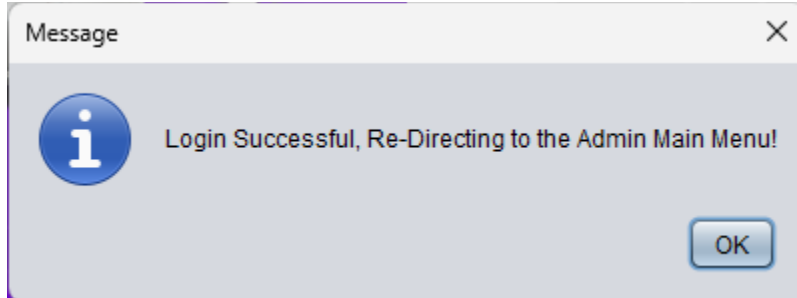
[Register Page](#) [Reset Password](#)

LOGIN

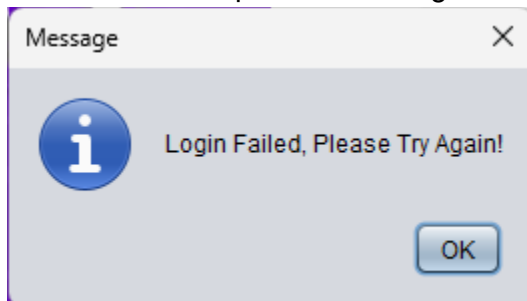
(Current Password)

Login

If correct it'll output the following:



If incorrect it'll output the following:



Main Menu (Admin)



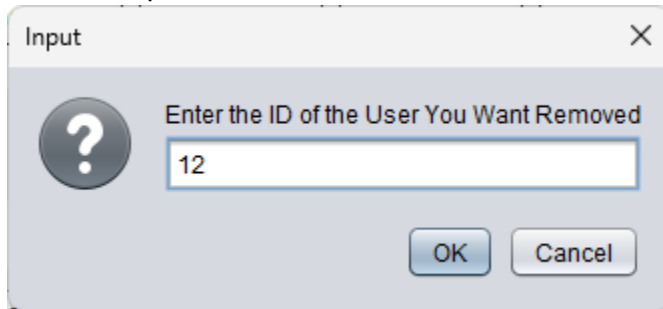
Manage Customers Page (Admin)

The image shows the 'Manage Customers Page (Admin)' interface. At the top is the 'J&B'S DEALERSHIP EST. 2022' logo. Below it is the title 'MANAGE CUSTOMERS' in purple. There is a form with fields for Username, Password (masked with asterisks), First Name, Last Name, and Gender. Below the form are three buttons: 'Add', 'Edit', and 'Delete'. Below these buttons is the title 'CUSTOMERS LIST' in purple. Below the title is a table with the following data:

Customer ID	Username	Password	First Name	Last Name	Gender	Rent ID
2	JohnSmith	*****	John	Smith	Male	2
6	SamJohnson	*****	Sam	Johnson	Male	0
12	JohnBingo	*****	John	Bingo	Male	0

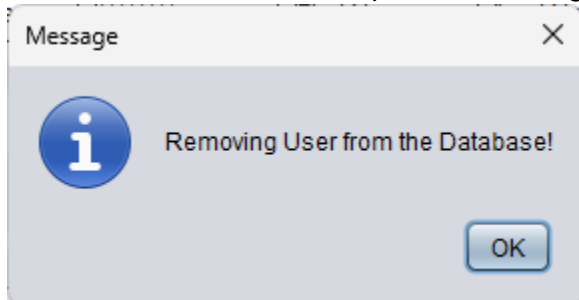
Below the table are two buttons: 'Main Menu' and 'Manage Vehicles'. There is a close 'X' icon in the top right corner.

We then input the ID of a user we want to remove.



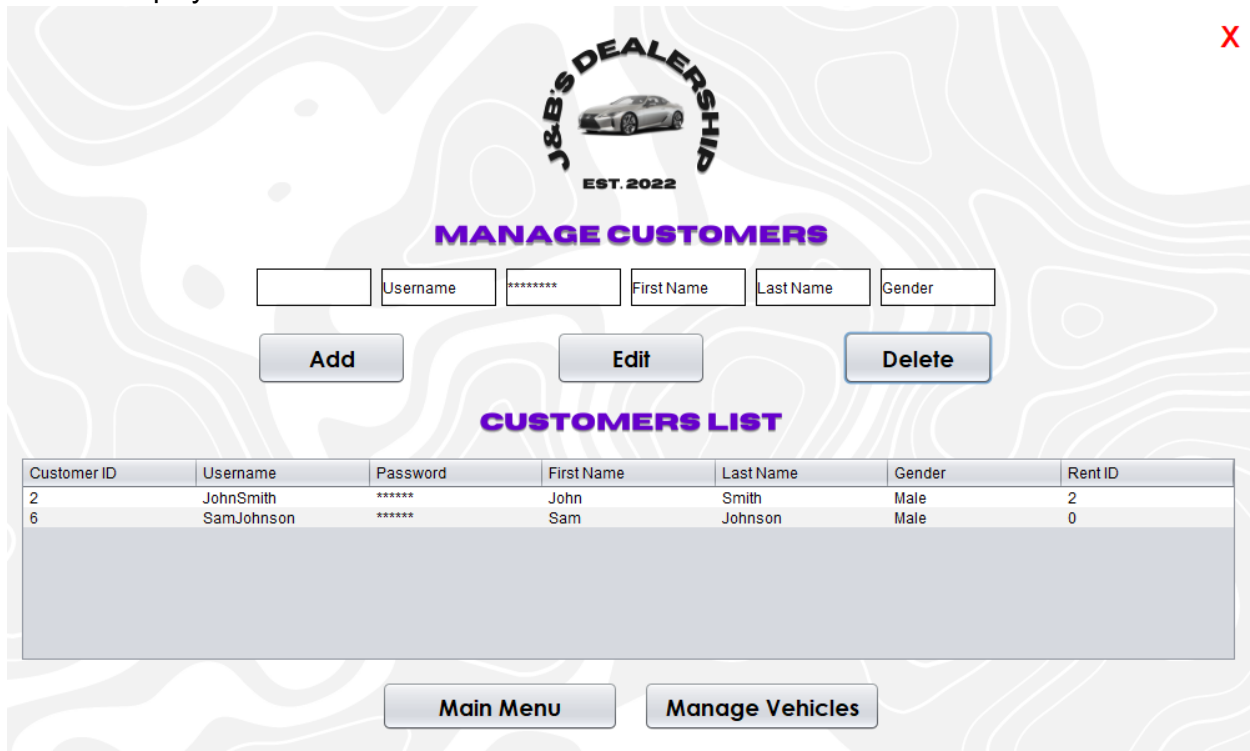
An 'Input' dialog box with a question mark icon. The title is 'Input'. The text inside says 'Enter the ID of the User You Want Removed'. There is a text input field containing the number '12'. At the bottom are 'OK' and 'Cancel' buttons.

If ID has been found, it'll output the following:



A 'Message' dialog box with an information icon. The title is 'Message'. The text inside says 'Removing User from the Database!'. At the bottom is an 'OK' button.


It'll then display the user has been removed in our table below:



The interface for 'J&B's Dealership' (EST. 2022) features a 'MANAGE CUSTOMERS' section. It includes input fields for Username, Password (masked with asterisks), First Name, Last Name, and Gender, along with 'Add', 'Edit', and 'Delete' buttons. Below this is a 'CUSTOMERS LIST' table showing two customers. At the bottom are 'Main Menu' and 'Manage Vehicles' buttons. A red 'X' is visible in the top right corner of the interface area.

Customer ID	Username	Password	First Name	Last Name	Gender	Rent ID
2	JohnSmith	*****	John	Smith	Male	2
6	SamJohnson	*****	Sam	Johnson	Male	0

Manage Vehicles Page (Admin)

X

MANAGE VEHICLES


Make Model Year Colour
 Price Type Passengers Rarity

VEHICLES LIST

Vehicle ID	Make	Model	Year	Colour	Price	Type	Availability	Passengers	Rarity
1	Aston Martin	Vantage	2022	Blue	TRUE	149999	Sport	Luxury	3
2	Alfa Romeo	4C	2018	Black	FALSE	49999	Sport	Premium	1
4	Toyota	Camry	2020	Silver	TRUE	39999	Sedan	Standard	4
5	Toyota	Yaris	2016	Yellow	TRUE	14999	Compact	Budget	4
6	BMW	M5	2010	Silver	TRUE	9999	Sedan	Budget	4
9	Land Rover	Discovery Sport	2021	Red	FALSE	250	Sport	Premium	4

We then input the ID of a user we want to remove.


Input



Enter the ID of the Vehicle You Want Removed

If ID has been found, it'll output the following:


Message



Removing Vehicle from the Database!

It'll then display the vehicle has been removed in our table below:

X



MANAGE VEHICLES

Make Model Year Colour

Price Type Booked Passengers Rarity

Add

Edit

Delete

VEHICLES LIST

Vehicle ID	Make	Model	Year	Colour	Price	Type	Availability	Passengers	Rarity
1	Aston Martin	Vantage	2022	Blue	TRUE	149999	Sport	Luxury	3
2	Alfa Romeo	4C	2018	Black	FALSE	49999	Sport	Premium	1
4	Toyota	Camry	2020	Silver	TRUE	39999	Sedan	Standard	4
5	Toyota	Yaris	2016	Yellow	TRUE	14999	Compact	Budget	4
6	BMW	M5	2010	Silver	TRUE	9999	Sedan	Budget	4

Main Menu

Manage Customers