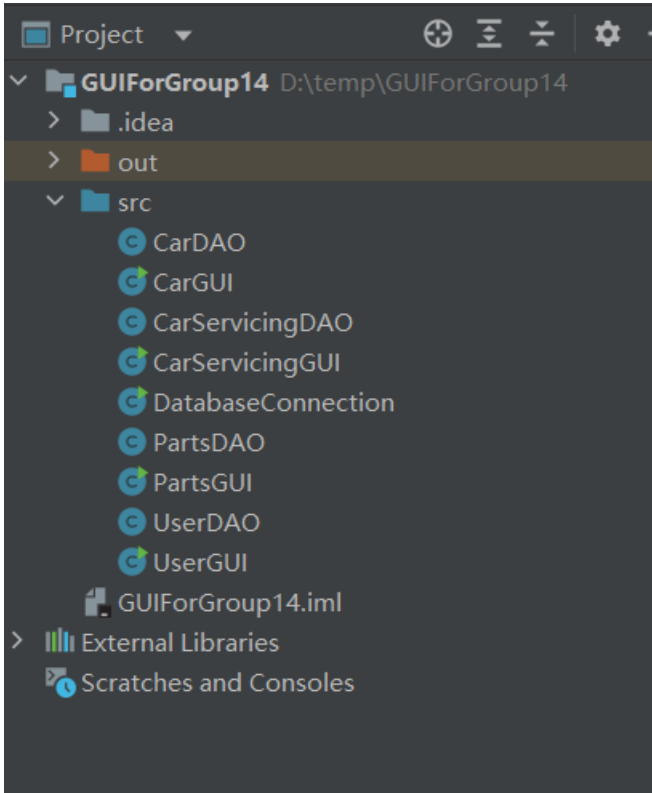


Automobile Dealership Management System

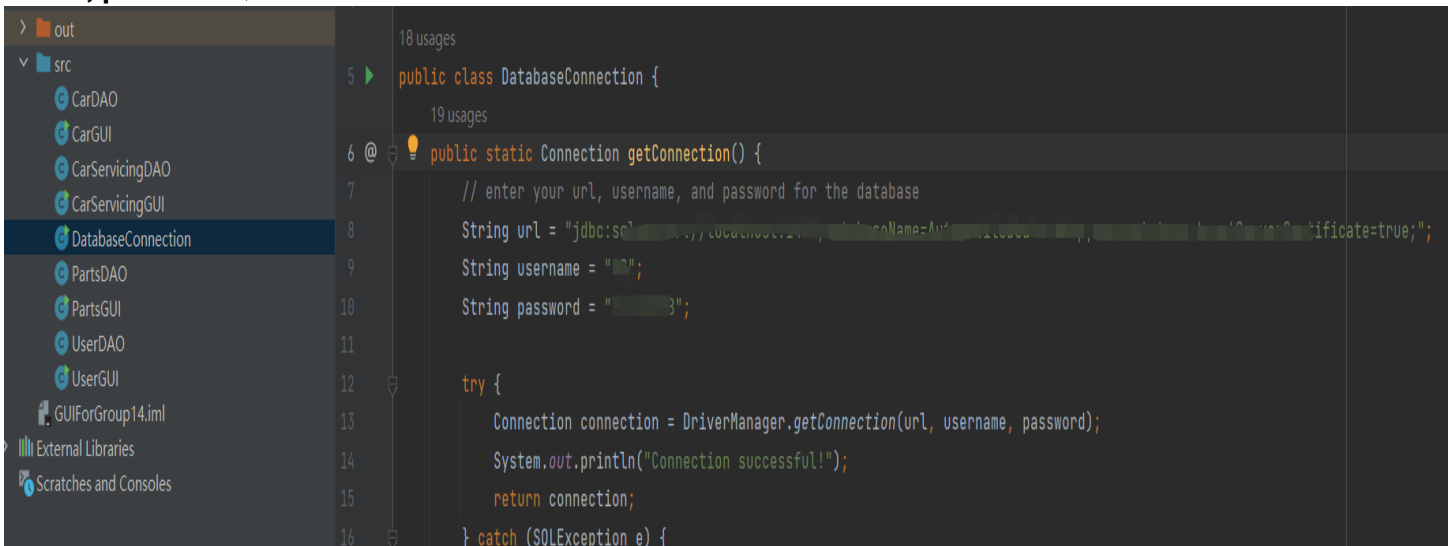


Project Group 14

This is the file structure of our GUI, which uses databaseconnection to connect to the database and implements it by constructing DAO and GUI methods.

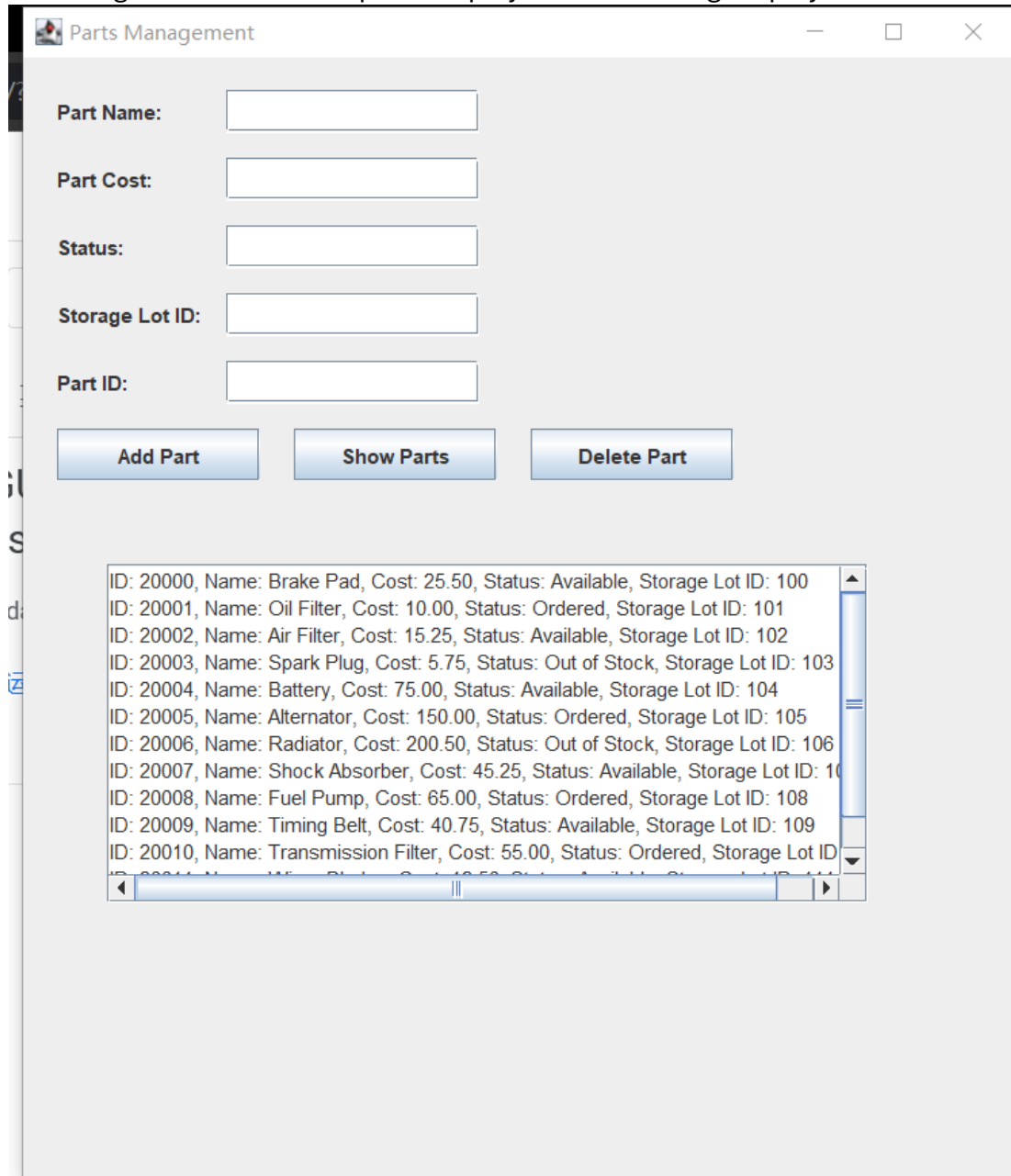


First we need to enter our sql server information to connect to the database (host name, user name, password)



Run partsGUI directly to get the picture shown below. We can first click the display button to display all parts.

This image shows the list of parts displayed after clicking Display



The screenshot shows a window titled "Parts Management" with a light gray background. At the top, there are five input fields with labels: "Part Name:", "Part Cost:", "Status:", "Storage Lot ID:", and "Part ID:". Below these fields are three buttons: "Add Part", "Show Parts", and "Delete Part". The "Show Parts" button is highlighted in blue. Below the buttons is a list box containing a scrollable list of parts. The list items are as follows:

ID	Name	Cost	Status	Storage Lot ID
20000	Brake Pad	25.50	Available	100
20001	Oil Filter	10.00	Ordered	101
20002	Air Filter	15.25	Available	102
20003	Spark Plug	5.75	Out of Stock	103
20004	Battery	75.00	Available	104
20005	Alternator	150.00	Ordered	105
20006	Radiator	200.50	Out of Stock	106
20007	Shock Absorber	45.25	Available	107
20008	Fuel Pump	65.00	Ordered	108
20009	Timing Belt	40.75	Available	109
20010	Transmission Filter	55.00	Ordered	110

We can add or delete parts by entering their data.
This image shows how to delete or add the parts.

Parts Management

Part Name: Brake Pad

Part Cost: 30

Status: Available

Storage Lot ID: 100

Part ID: 200101

Add Part

Show Parts

Delete Part

ID: 20000, Name: Brake Pad, Cost: 25.50, Status: Available, Storage Lot ID: 100

ID: 20001, Name: Oil Filter, Cost: 10.00, Status: Ordered, Storage Lot ID: 101

ID: 20002, Name: Air Filter, Cost: 15.25, Status: Available, Storage Lot ID: 102

ID: 20003, Name: Spark Plug, Cost: 5.75, Status: Out of Stock, Storage Lot ID: 103

ID: 20004, Name: Battery, Cost: 75.00, Status: Available, Storage Lot ID: 104

ID: 20005, Name: Alternator, Cost: 150.00, Status: Ordered, Storage Lot ID: 105

ID: 20006, Name: Radiator, Cost: 200.50, Status: Out of Stock, Storage Lot ID: 106

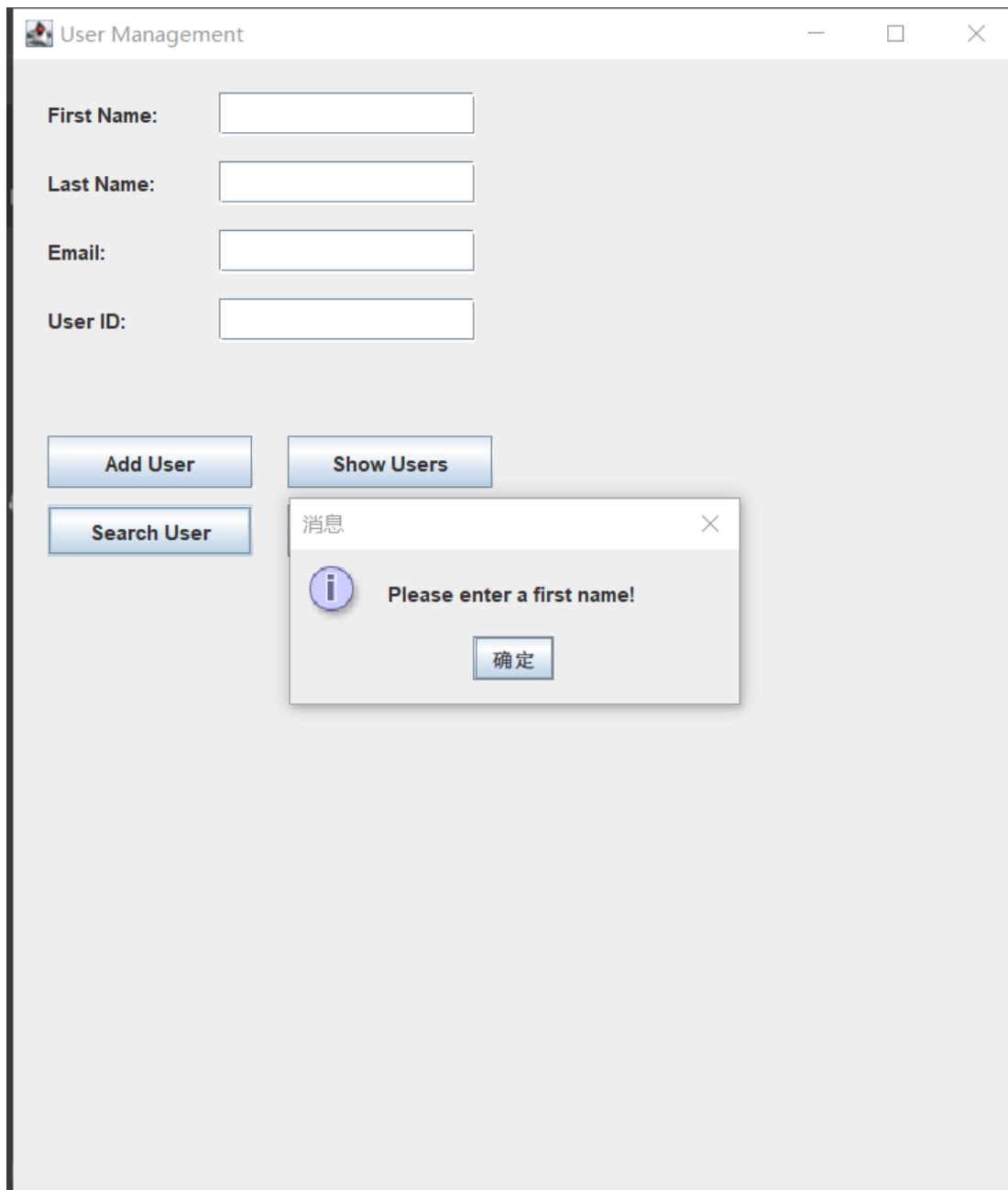
ID: 20007, Name: Shock Absorber, Cost: 45.25, Status: Available, Storage Lot ID: 107

ID: 20008, Name: Fuel Pump, Cost: 65.00, Status: Ordered, Storage Lot ID: 108

ID: 20009, Name: Timing Belt, Cost: 40.75, Status: Available, Storage Lot ID: 109

ID: 20010, Name: Transmission Filter, Cost: 55.00, Status: Ordered, Storage Lot ID: 110

When we search for users, we need to fill in the name
This image shows the list of user name displayed after clicking Display



The image shows a 'User Management' application window. It contains four input fields for 'First Name', 'Last Name', 'Email', and 'User ID'. Below these fields are three buttons: 'Add User', 'Show Users', and 'Search User'. A modal message box is displayed in the foreground, titled '消息' (Message), with an information icon and the text 'Please enter a first name!'. The message box has a '确定' (Confirm) button at the bottom.

User Management

First Name:

Last Name:

Email:

User ID:

Add User Show Users Search User

消息

Please enter a first name!

确定

When we want to delete users, we only need to enter the userID
This image shows we need to enter user ID to add the user.

User Management

First Name:

Last Name:

Email:

User ID:

Add User

Show Users

Search User

Delete User

ID: 100012, Name: Liam Taylor, Email: liamtaylor@example.com

ID: 100013, Name: Mia Garcia, Email: miagarcia@example.com

ID: 100014, Name: Noah White, Email: noahwhite@example.com

ID: 100015, Name: Olivia Martin, Email: oliviamartin@example.com

ID: 100016, Name: Lucas Lopez, Email: lucaslopez@example.com

ID: 100017, Name: Sophia Anderson, Email: sophiaanderson@example.com

ID: 100018, Name: Mason Thomas, Email: masonthomas@example.com

ID: 100019, Name: Amelia Harris, Email: ameliaharris@example.com

ID: 100020, Name: Benjamin Clark, Email: benjaminclark@example.com

ID: 100021, Name: Charlotte Jones, Email: charlottejones@example.com

ID: 100022, Name: Ethan Brown, Email: ethanbrown@example.com

ID: 100023, Name: Ava Davis, Email: avadavis@example.com

消息

Please enter a User ID!

确定

The rest of the GUI has similar CRUD functionality as before. You only need to click on a button to use the corresponding function

This image shows the list of car servicing displayed after clicking Display

Car Servicing Management

Service Date (YYYY-MM-DD):

Service Description:

Service Cost:

Car ID (optional):

Appointment ID:

Part ID (optional):


Add Service

Show Services

Delete Service

Service ID: 1, Date: 2024-01-13, Description: Oil Change, Cost: \$50.0, Car ID: 10000, Appointment ID: 1, Part ID: 20000
Service ID: 2, Date: 2024-02-19, Description: Brake Replacement, Cost: \$150.0, Car ID: 10001, Appointment ID: 2, Part ID:
Service ID: 3, Date: 2024-03-23, Description: Battery Replacement, Cost: \$120.0, Car ID: 10002, Appointment ID: 3, Part ID
Service ID: 4, Date: 2024-04-28, Description: Tire Rotation, Cost: \$40.0, Car ID: 10003, Appointment ID: 4, Part ID: 20003
Service ID: 5, Date: 2024-05-08, Description: Transmission Check, Cost: \$200.0, Car ID: 10004, Appointment ID: 5, Part ID:
Service ID: 6, Date: 2024-06-13, Description: Alignment, Cost: \$80.0, Car ID: 10005, Appointment ID: 6, Part ID: 20005
Service ID: 7, Date: 2024-07-18, Description: Fuel System Cleaning, Cost: \$100.0, Car ID: 10006, Appointment ID: 7, Part ID
Service ID: 8, Date: 2024-08-23, Description: Spark Plug Replacement, Cost: \$60.0, Car ID: 10007, Appointment ID: 8, Part
Service ID: 9, Date: 2024-09-13, Description: Coolant Flush, Cost: \$90.0, Car ID: 10008, Appointment ID: 9, Part ID: 20008
Service ID: 10, Date: 2024-10-16, Description: Engine Tune-Up, Cost: \$250.0, Car ID: 10009, Appointment ID: 10, Part ID: 2
Service ID: 11, Date: 2024-11-21, Description: Brake Fluid Replacement, Cost: \$110.0, Car ID: 10010, Appointment ID: 11, I
Service ID: 12, Date: 2024-12-25, Description: Radiator Replacement, Cost: \$300.0, Car ID: 10011, Appointment ID: 12, Pa

This image shows the list of cars displayed after clicking Display

 Car Management

VIN:

Make:

Model:

Year:

Price:

Add Car

Show Cars

Search Car

Delete Car

CarID: 10013, VIN: VIN2000002, Make: BMW, Model: 3 Series, Year: 2019, Price: \$14000.0

CarID: 10014, VIN: VIN2000003, Make: Mercedes, Model: C Class, Year: 2017, Price: \$14000.0

CarID: 10015, VIN: VIN2000004, Make: Lexus, Model: IS, Year: 2016, Price: \$14000.0

CarID: 10016, VIN: VIN2000005, Make: Toyota, Model: Camry, Year: 2018, Price: \$14000.0

CarID: 10017, VIN: VIN2000006, Make: Ford, Model: Mustang, Year: 2017, Price: \$21000.0

CarID: 10018, VIN: VIN2000007, Make: Chevrolet, Model: Malibu, Year: 2016, Price: \$14000.0

CarID: 10019, VIN: VIN2000008, Make: Honda, Model: Pilot, Year: 2019, Price: \$20000.0

CarID: 10020, VIN: VIN2000009, Make: Jeep, Model: Wrangler, Year: 2018, Price: \$21000.0

CarID: 10021, VIN: VIN2000010, Make: Subaru, Model: Forester, Year: 2017, Price: \$18000.0

CarID: 10022, VIN: VIN2000011, Make: Kia, Model: Sorento, Year: 2019, Price: \$18000.0

CarID: 10023, VIN: VIN2000012, Make: Mazda, Model: 3, Year: 2018, Price: \$15000.0