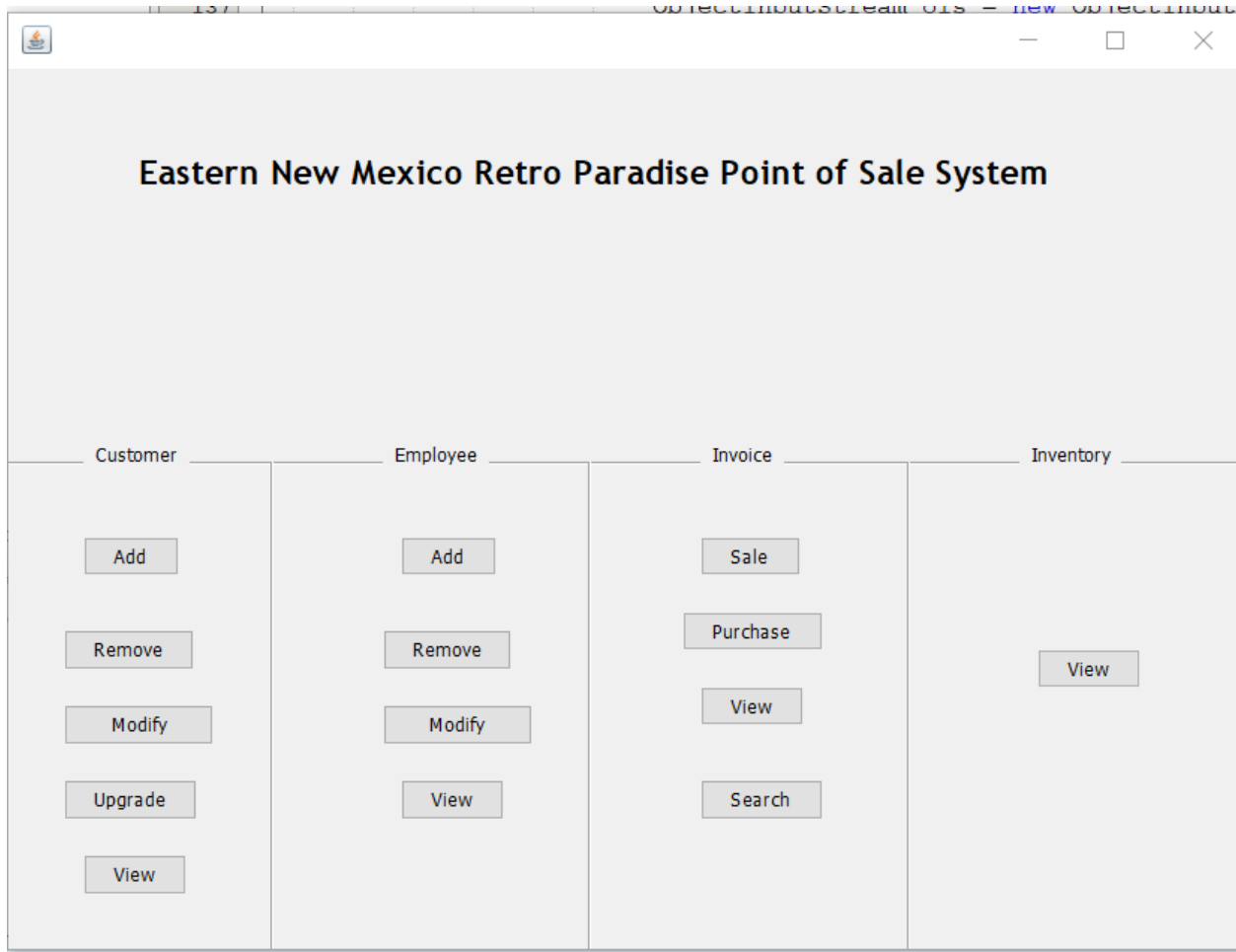CS 234 2021F

Project: Eastern New Mexico Retro Paradise Part 3 Walkthrough

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Our project is a point of sale and inventory management system for a retro gaming store in Eastern New Mexico. When the user logs in, they are presented with a menu of the various options the system has.

The system is initialized with an existing information in each category which can be obtained by clicking view in each category.

```
Consoles: 150
Games: 526
Controllers: 58
Accessories: 27
Memoribilia: 87
```

Purchases:

```
Account ID: 12
Invoice ID: 789
Date: 12/21/21
Consoles purchased: 5
Games purchased: 5
Accessories purchased: 1
Controllers purchased: 1
Memoribilia purchased: 1
Amount: 785.0
Points earned: 78.5
```

Sales:

```
Employee ID: 123
Account ID: 12
Invoice ID: 456
Date: 12/21/21
Consoles sold: 1
Games sold: 2
Accessories sold: 0
Controllers sold: 0
Memoribilia sold: 0
Amount: 200.0
Points earned: 20.0
```

Employees:

```
Employee ID: 123
Name: Al Pratt
Phone number: 5757895623
Hourly wage: 25
Weekly sales: 200.0

Employee ID: 456
Name: Ted Grant
Phone number: 5754562389
Hourly wage: 24
Weekly sales: 0.0
```
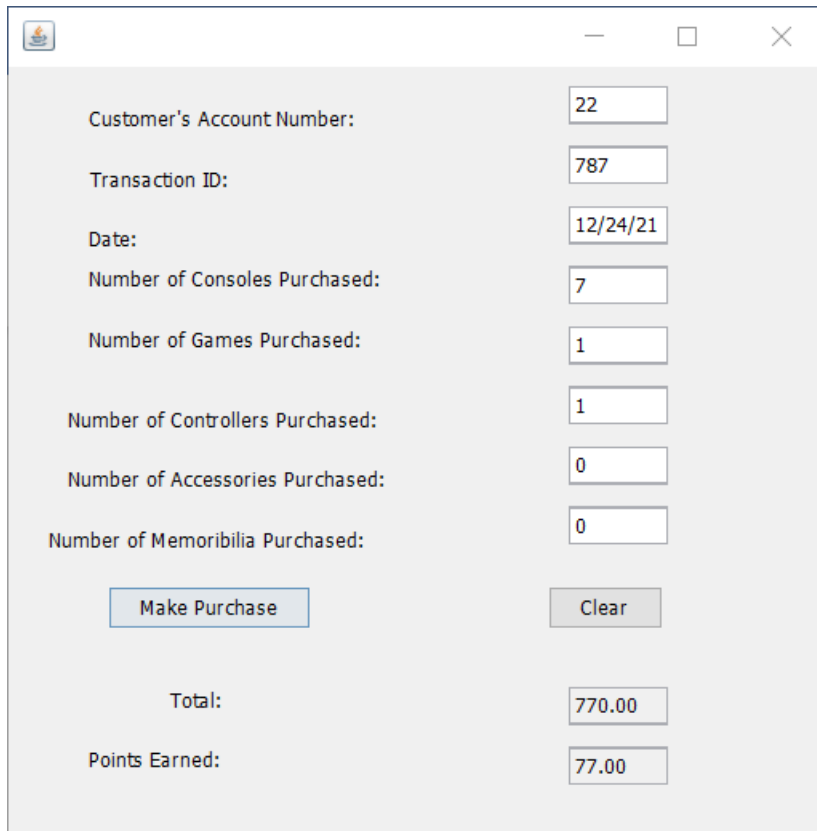
Customers:

```
Account ID: 12
Name: Lex Luthor
Phone Number: 5055688956
Points: 98.5

Account ID: 22
Name: Priscilla Rich
Phone Number: 5054562389
Points: 0.0
```

Silver Customers:

```
Account ID: 42
Name: Leonard Snart
Phone Number: 5054567823
Points: 0.0
Coupon: true
```

The user can then create an invoice for a purchase of used gaming items from a client. The system will compute the total due to the client based on the number of each type of piece and prices of each category, and the points the client earned for the transaction.

Once a purchase invoice has been created, it can be viewed.

```
Purchases:                                      Sales:

Account ID: 12                                  Employee ID: 123
Invoice ID: 789                                 Account ID: 12
Date: 12/21/21                                  Invoice ID: 456
Consoles purchased: 5                           Date: 12/21/21
Games purchased: 5                              Consoles sold: 1
Accessories purchased: 1                        Games sold: 2
Controllers purchased: 1                        Accessories sold: 0
Memoribilia purchased: 1                        Controllers sold: 0
Amount: 785.0                                   Memoribilia sold: 0
Points earned: 78.5                             Amount: 200.0
                                                Points earned: 20.0
Account ID: 22
Invoice ID: 787
Date: 12/24/21
Consoles purchased: 7
Games purchased: 1
Accessories purchased: 0
Controllers purchased: 1
Memoribilia purchased: 0
Amount: 770.0
Points earned: 77.0
```
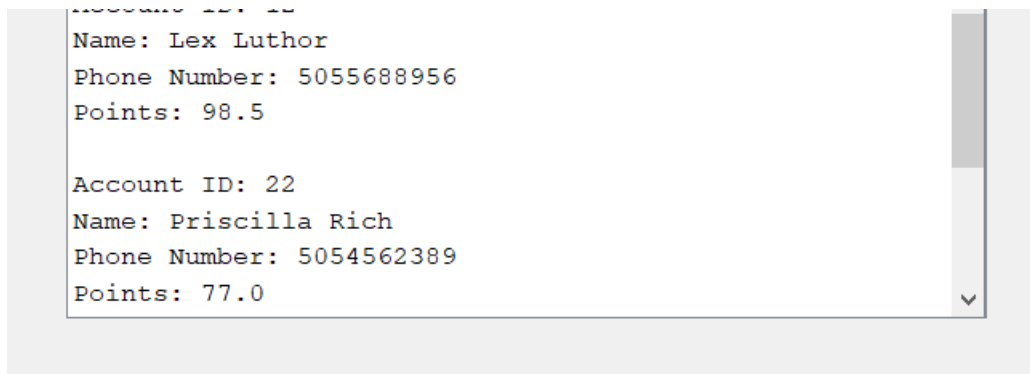
Inventory changes made in the purchase invoices will then reflect in the inventory.

```
Consoles: 157
Games: 527
Controllers: 59
Accessories: 27
Memoribilia: 87
```
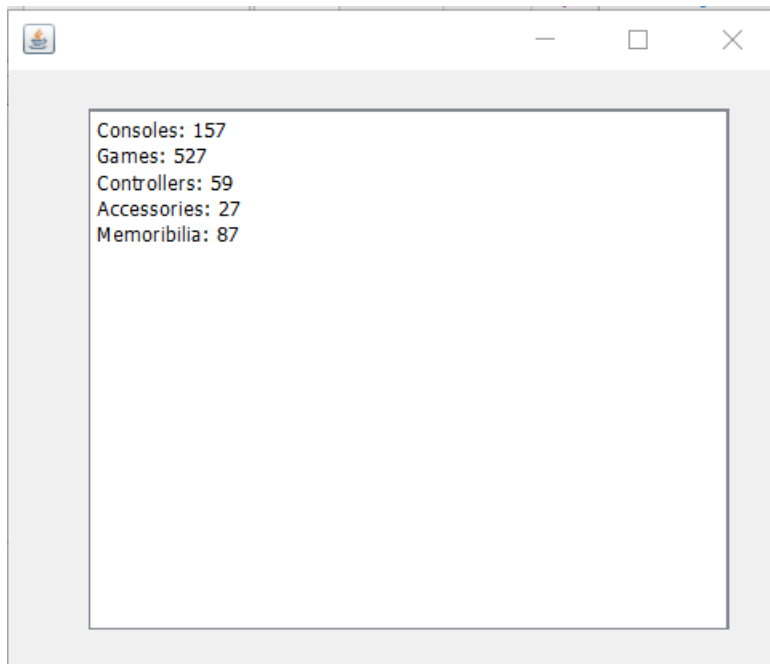
Points earned will reflect in customer entries.

```
Name: Lex Luthor
Phone Number: 5055688956
Points: 98.5

Account ID: 22
Name: Priscilla Rich
Phone Number: 5054562389
Points: 77.0
```

In a similar manner, the user can create and then view sales invoices of merchandise to a client, with total charge and points being computed and sales made in the invoice menu reflecting in the referenced employee and customer entries and items removed from inventory.

Customer's Account Number:	42
Employee ID:	456
Transaction ID:	798
Date:	11/21/21
Number of Consoles Sold:	3
Number of Games Sold:	29
Number of Controllers Sold:	3
Number of Accessories Sold:	3
Number of Memoribilia Sold:	1

Make Sale   Clear

Total:	1845.00
Points Earned:	184.50

Purchases:

```
Account ID: 12
Invoice ID: 789
Date: 12/21/21
Consoles purchased: 5
Games purchased: 5
Accessories purchased: 1
Controllers purchased: 1
Memoribilia purchased: 1
Amount: 785.0
Points earned: 78.5

Account ID: 22
Invoice ID: 787
Date: 12/24/21
Consoles purchased: 7
Games purchased: 1
Accessories purchased: 0
Controllers purchased: 1
Memoribilia purchased: 0
Amount: 770.0
Points earned: 77.0
```

Sales:

```
Employee ID: 123
Account ID: 12
Invoice ID: 456
Date: 12/21/21
Consoles sold: 1
Games sold: 2
Accessories sold: 0
Controllers sold: 0
Memoribilia sold: 0
Amount: 200.0
Points earned: 20.0

Employee ID: 456
Account ID: 42
Invoice ID: 798
Date: 11/21/21
Consoles sold: 3
Games sold: 29
Accessories sold: 3
Controllers sold: 3
Memoribilia sold: 1
Amount: 1845.0
Points earned: 184.5
```
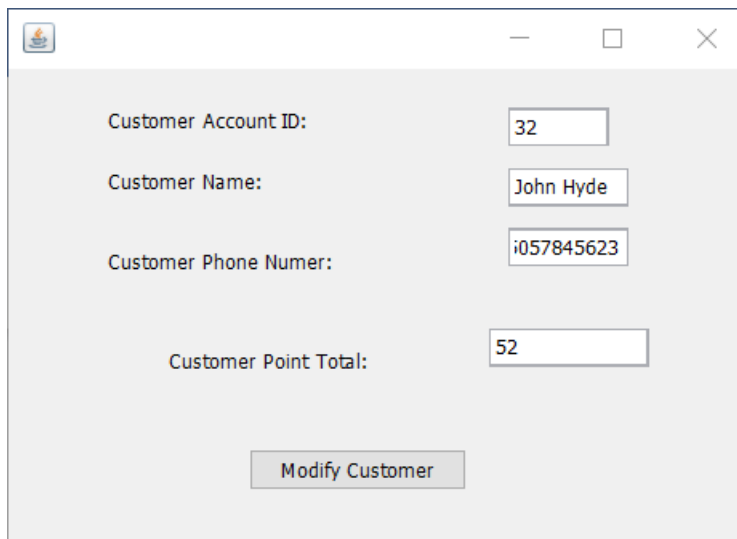
```
Points: 77.0

Account ID: 32
Name: David Hyde
Phone Number: 5051237845
Points: 0.0
```

Silver Customers:

```
Account ID: 42
Name: Leonard Snart
Phone Number: 5054567823
Points: 184.5
Coupon: true
```
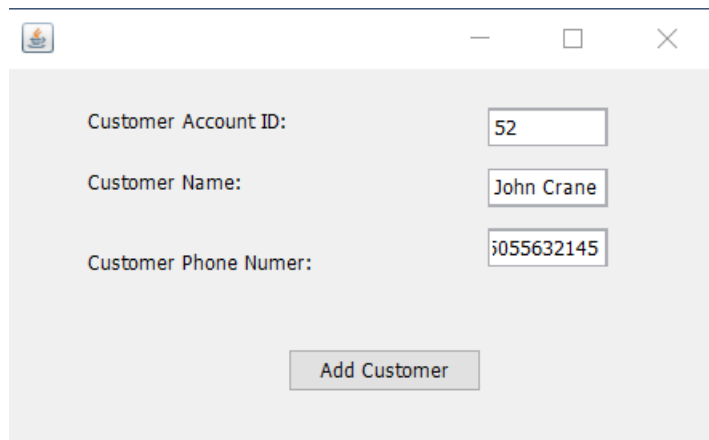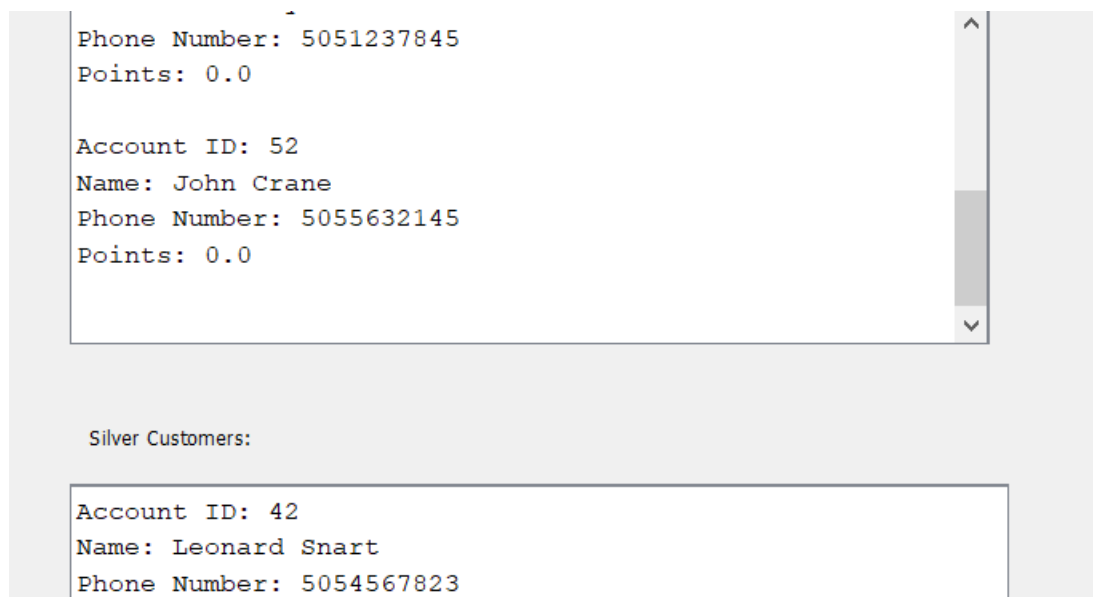
```
Employee ID: 456
Name: Ted Grant
Phone number: 5754562389
Hourly wage: 24
Weekly sales: 1845.0
```

The program also includes systems for managing customer information. It allows the user to create new customers with an ID number, their name and phone number and initializes the account with zero points, and adds the customer to an extant database of current customers. It also includes a subclass of the customer which is the Silver level customer for select customers which includes the information of a regular customer along with a coupon for the client to use.

```
Phone Number: 5051237845
Points: 0.0

Account ID: 52
Name: John Crane
Phone Number: 5055632145
Points: 0.0
```

Silver Customers:

```
Account ID: 42
Name: Leonard Snart
Phone Number: 5054567823
```

Users can also upgrade clients to silver status int the customer menu.

Customers:

```
Name: David Hyas
Phone Number: 5051237845
Points: 0.0

Account ID: 52
Name: John Crane
Phone Number: 5055632145
Points: 0.0
```

Silver Customers:

```
Name: Leonard Snart
Phone Number: 5054567823
Points: 184.5
Coupon: true

Account ID: 22
Name: Priscilla Rich
Phone Number: 5054562389
Points: 77.0
Coupon: true
```
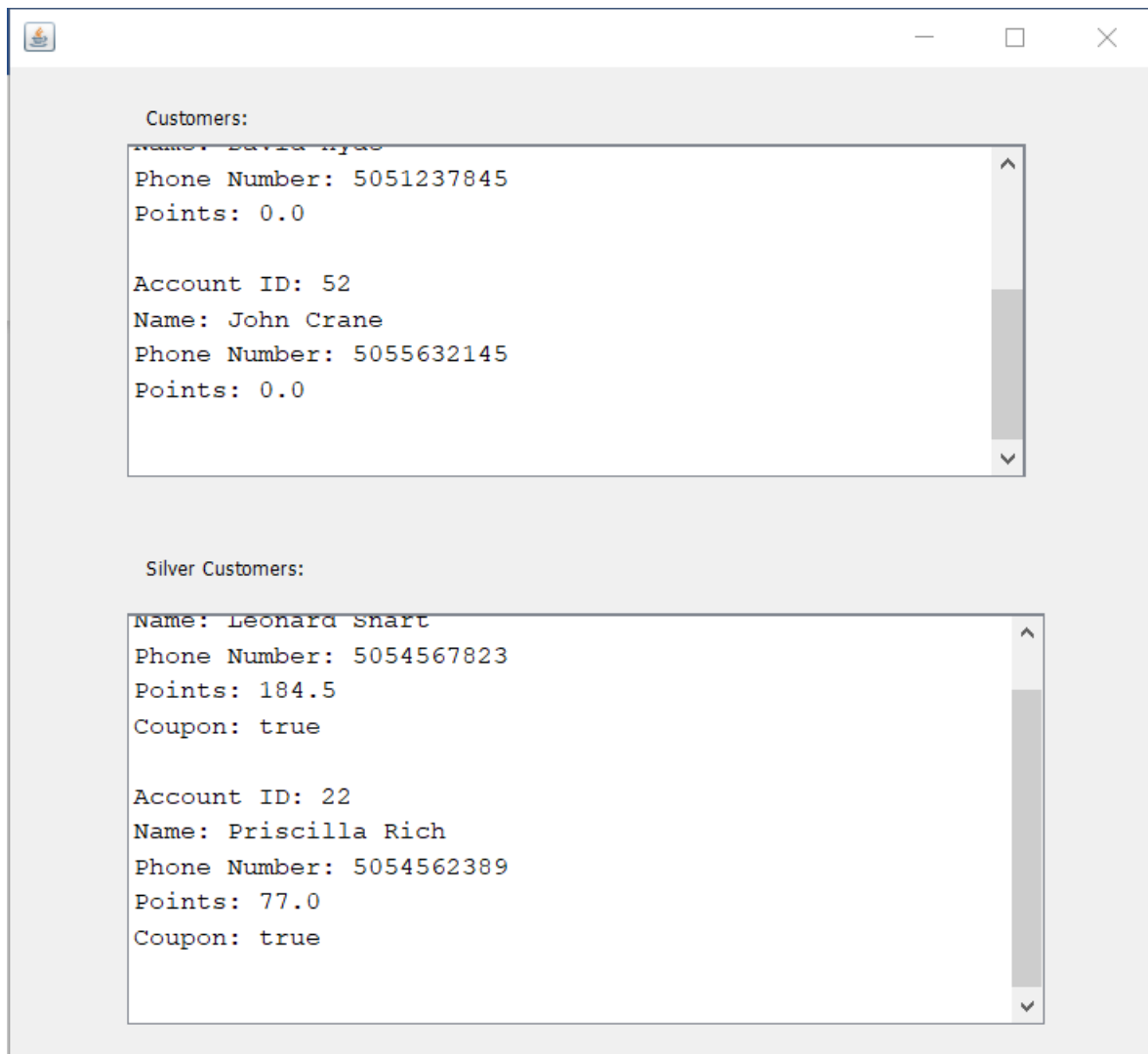
The system also allows for the removal of customers.

Customer Account ID to Remove: 52

Remove Customer

Customers:

```
Account ID: 12
Name: Lex Luthor
Phone Number: 5055688956
Points: 98.5

Account ID: 32
Name: David Hyde
Phone Number: 5051237845
Points: 0.0
```

Silver Customers:

```
Account ID: 42
Name: Leonard Snart
Phone Number: 5054567823
Points: 184.5
Coupon: true

Account ID: 22
Name: Priscilla Rich
Phone Number: 5054562389
Points: 77.0
Coupon: true
```

The user can also modify the name, phone number and point total of a customer using an existing ID number.
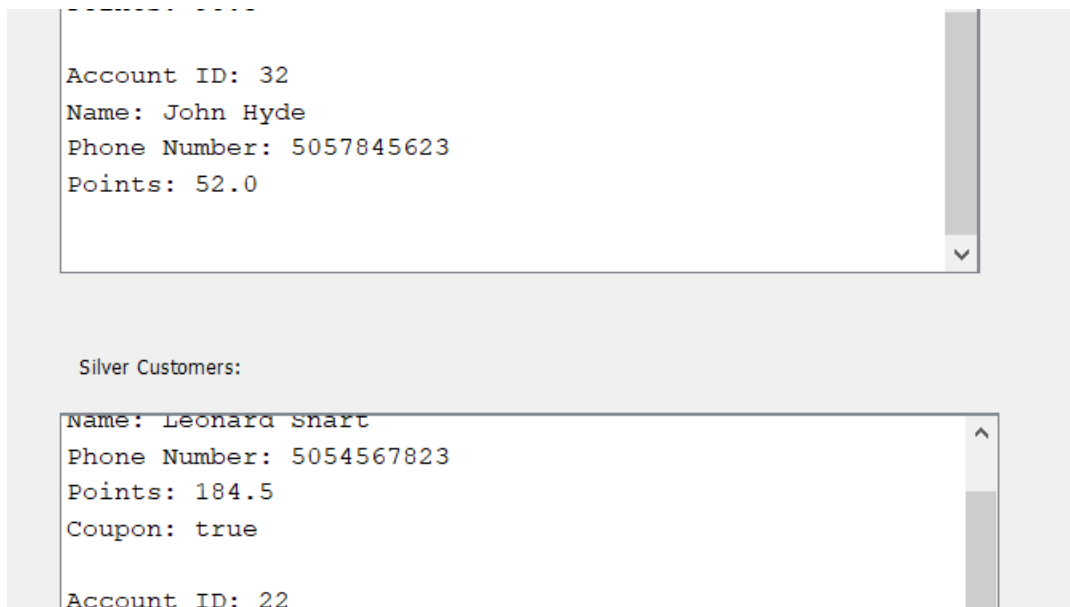

```
Account ID: 32
Name: John Hyde
Phone Number: 5057845623
Points: 52.0
```
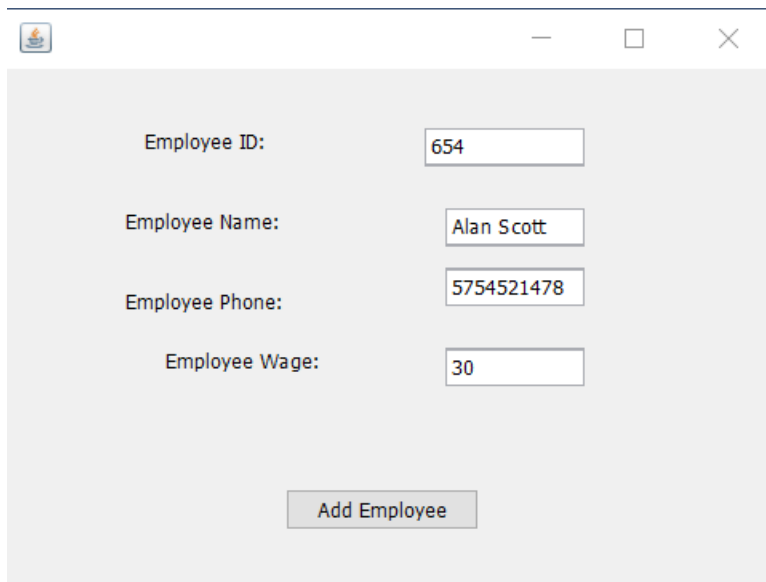
Silver Customers:

```
Name: Leonard Snart
Phone Number: 5054567823
Points: 184.5
Coupon: true

Account ID: 22
```
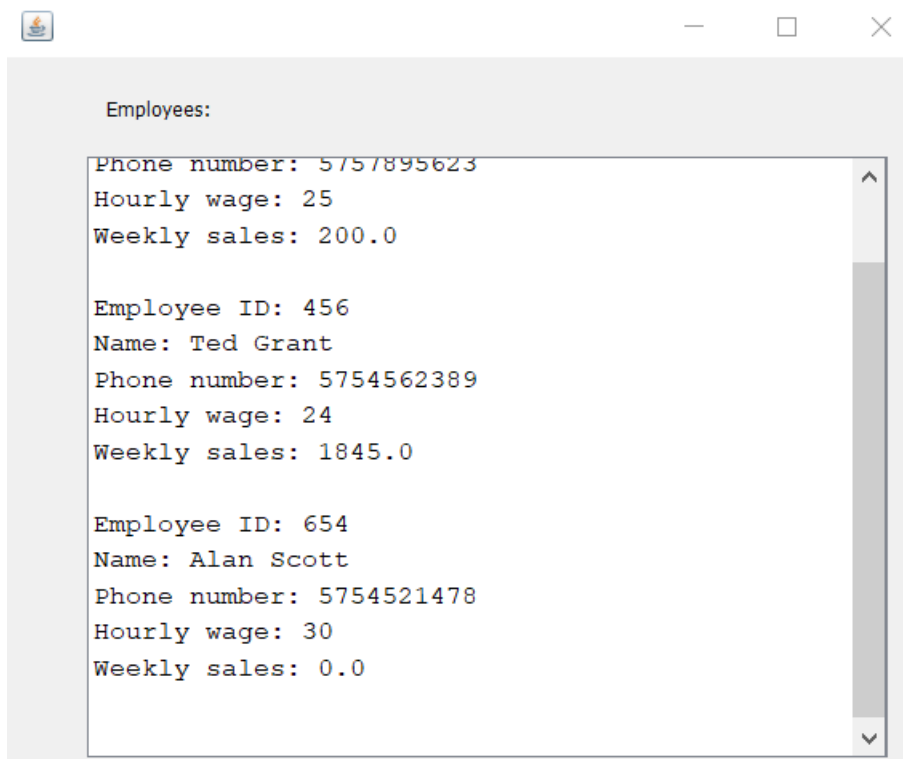
Finally, the system includes a similar database of employees at the store that new employees can be added to with their assigned ID, name and phone number with their weekly sales being initialized at zero and with one employee already in the system. Name and phone number

information for an employee can be modified using their current ID, with their weekly sales carrying over.

Employees can also be removed from the system by entering their ID number.

Employee ID to Remove: 654

Remove Employee

Employees:

```
Employee ID: 123
Name: Al Pratt
Phone number: 5757895623
Hourly wage: 25
Weekly sales: 200.0

Employee ID: 456
Name: Ted Grant
Phone number: 5754562389
Hourly wage: 24
Weekly sales: 1845.0
```
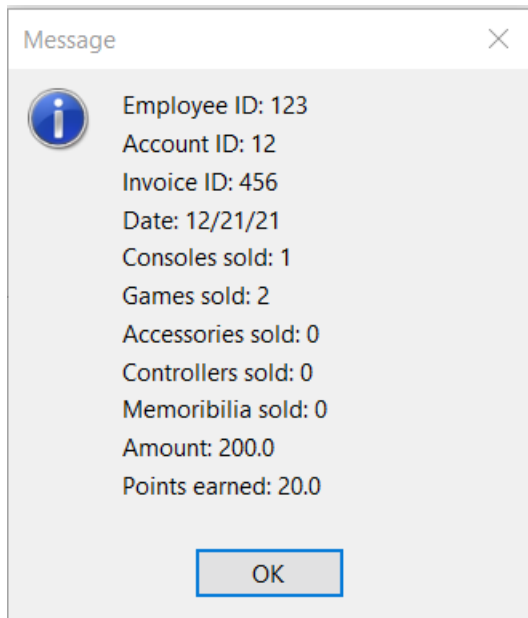
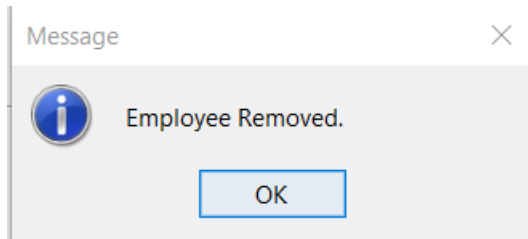Users can search the invoice database for specific Transaction IDs.

Invoice ID: 456

Search

The system includes validation messages when actions are completed.

The system will also confirm when a user enters incorrect information in a menu.