

INVOICE BILLING SYSTEM

CONSOLE-BASED:

CASE 1: CREATE INVOICE

```
Problems @ Javadoc Declaration Console X
Main (4) [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.1.v2024
3. Delete Item
4. Finish
Choose an option: 1
Enter Item Name: Sugar
Enter Quantity: 1
1. Add Item
2. Update Item
3. Delete Item
4. Finish
Choose an option: 1
Enter Item Name: rice
Enter Quantity: 3
1. Add Item
2. Update Item
3. Delete Item
4. Finish
Choose an option: 4
Total Amount: 158.1
Enter Amount Paid: 150
Invoice created successfully.

Initial Balance: 0.0

-----
                        RAM STORE
Invoice ID: 5
Customer ID: 5
Customer Name: Madhumita
Date: 2024-07-22

Item Name      Quantity  Unit   Rate   Price
-----
SUGAR          1         kg    20.00  20.00
RICE           3         kg    50.00 150.00

SubTotal: 170.00
Discount: 7%
Total: 158.10
Amount Paid: 150.00
Customer Balance: 8.10
Thank you for your purchase!
```

CASE 2: VIEW ALL INVOICES

```
Invoice Billing System
1. Create Invoice
2. View All Invoices
3. View Invoice by ID
4. View Customer Balance
5. View Item Sales
6. Create Item
7. Exit
Choose an option: 2
List of Invoices:
Invoice ID: 1, Customer ID: 1, Date: 2024-07-22, Total: 594.00, Paid: 500.00
Invoice ID: 2, Customer ID: 2, Date: 2024-07-22, Total: 306.00, Paid: 300.00
Invoice ID: 3, Customer ID: 3, Date: 2024-07-22, Total: 209.00, Paid: 200.00
Invoice ID: 4, Customer ID: 4, Date: 2024-07-22, Total: 477.00, Paid: 477.00
Invoice ID: 5, Customer ID: 5, Date: 2024-07-22, Total: 158.10, Paid: 150.00
```

CASE 3: VIEW INVOICE BY ID

```
Invoice Billing System
1. Create Invoice
2. View All Invoices
3. View Invoice by ID
4. View Customer Balance
5. View Item Sales
6. Create Item
7. Exit
Choose an option: 3
Enter Invoice ID: 4
-----
                        RAM STORE
Invoice ID: 4
Customer ID: 4
Customer Name: Yogu
Date: 2024-07-22

Item Name      Quantity  Unit   Rate   Price
-----
RICE           10        kg    50.00  500.00
PEN            3         Nos   10.00   30.00

SubTotal: 530.00
Discount: 10%
Total: 477.00
Amount Paid: 477.00
Customer Balance: 0.00
Thank you for your purchase!
```

CASE 4: VIEW CUSTOMER BALANCE

```
Invoice Billing System
1. Create Invoice
2. View All Invoices
3. View Invoice by ID
4. View Customer Balance
5. View Item Sales
6. Create Item
7. Exit
Choose an option: 4
Enter Customer's Mobile Number: 9089765321
Customer Name: Madhumita, Balance: 8.10
```

CASE 5: VIEW ITEM SALES

```
Invoice Billing System
1. Create Invoice
2. View All Invoices
3. View Invoice by ID
4. View Customer Balance
5. View Item Sales
6. Create Item
7. Exit
Choose an option: 5
Item Sales Report:
Item Name          Unit      Total Quantity  Total Sales
RICE                kg        25              1250.00
SUGAR               kg        10              200.00
Sunflower oil      litre     2              160.00
SALT                kg         5              150.00
PEN                 Nos        8              80.00
PENCIL              Nos        4              80.00
```

CASE 6: CREATE ITEM

```
Invoice Billing System
1. Create Invoice
2. View All Invoices
3. View Invoice by ID
4. View Customer Balance
5. View Item Sales
6. Create Item
7. Exit
Choose an option: 6
Enter Item Name: Soap
Enter Unit: Nos
Enter Rate: 20
Item created successfully.
```

Database: Item table

	ItemID	ItemName	Unit	Rate
	3	Sunflower oil	litre	80
	4	SALT	kg	30
	5	PEN	Nos	10
	6	PENCIL	Nos	20
	10	Soap	Nos	20
*	NULL	NULL	NULL	NULL

For update

Invoice Billing System

1. Create Invoice
2. View All Invoices
3. View Invoice by ID
4. View Customer Balance
5. View Item Sales
6. Create Item
7. Exit

Choose an option: 6

Enter Item Name: Soap

Item already exists. Enter 1 to update it, 0 to cancel:

1

Enter new Unit: Nos

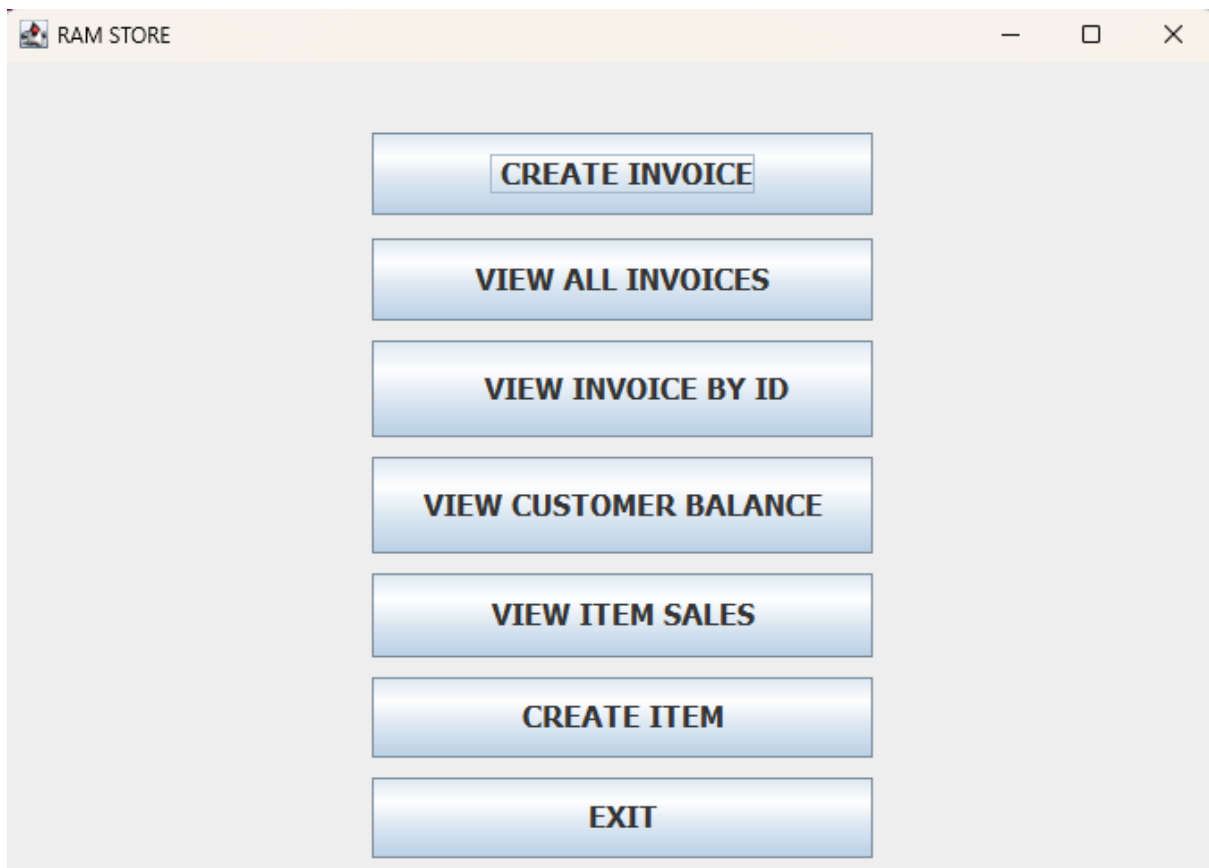
Enter new Rate: 30

Item updated successfully.

Database update: Item table

	ItemID	ItemName	Unit	Rate
	2	SUGAR	kg	20
	3	Sunflower oil	litre	80
	4	SALT	kg	30
	5	PEN	Nos	10
	6	PENCIL	Nos	20
	10	Soap	Nos	30

GRAPHICAL USER INTERFACE (GUI) FOR USER INTERACTIONS: SWING



CREATE INVOICE:

INVOICE CREATION PROCESS:

Enter Mobile Number:

- Input the customer's mobile number.
- If new, enter the customer's name; if existing, load customer details.

Add Items:

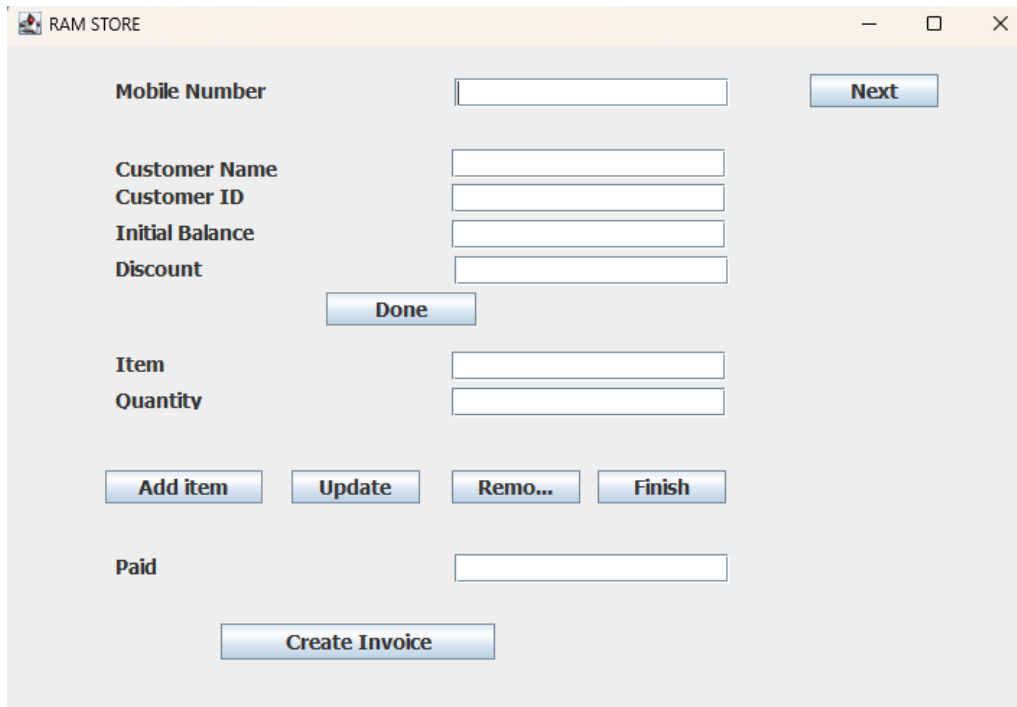
- Use "Add Item" to input item names and quantities.
- Update quantities with "Update Item".
- Remove items with "Remove".

Finish Invoice:

- Click "Finish" to show the total amount.
- Apply discounts and show the final amount.
- Enter the paid amount to display the balance due.

View Invoice:

- Click "View Invoice" to see all invoice details including customer info, items, totals, discounts, paid amount, and balance due.



RAM STORE

Mobile Number

Next

Customer Name

Customer ID

Initial Balance

Discount

Done

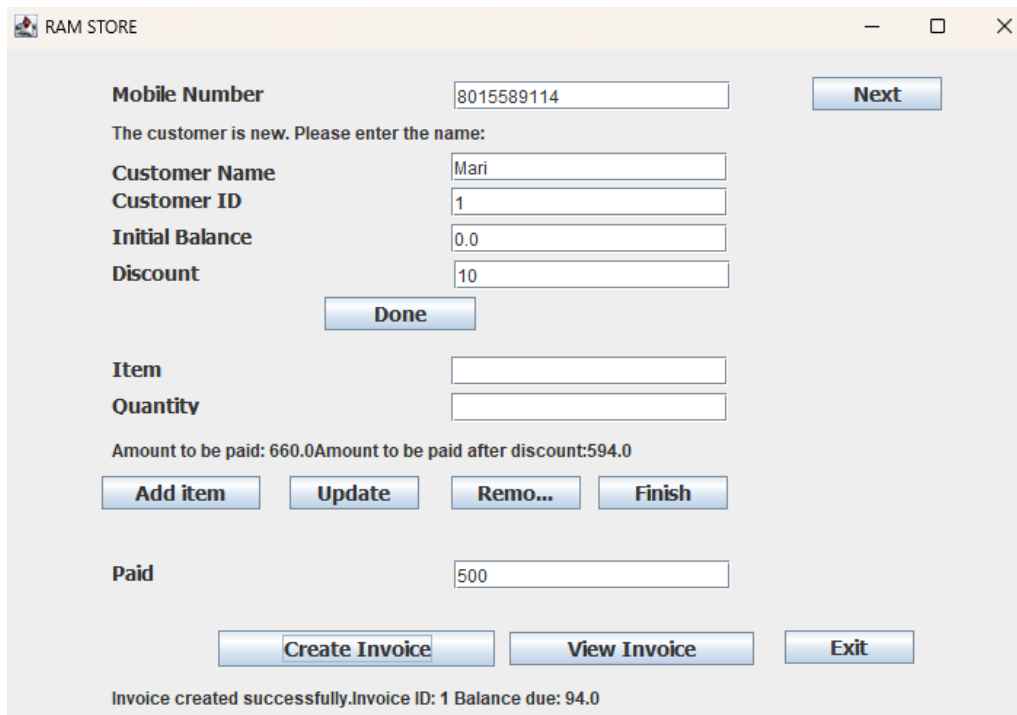
Item

Quantity

Add item Update Remo... Finish

Paid

Create Invoice



RAM STORE

Mobile Number

Next

The customer is new. Please enter the name:

Customer Name

Customer ID

Initial Balance

Discount

Done

Item

Quantity

Amount to be paid: 660.0 Amount to be paid after discount: 594.0

Add item Update Remo... Finish

Paid

Create Invoice View Invoice Exit

Invoice created successfully. Invoice ID: 1 Balance due: 94.0

VIEW INVOICE BY ID:

Invoice ID:

Load Invoice

Exit

RAM STORE

Invoice ID: 1

Customer ID: 1

Customer Name: Mari

Date: 2024-07-22

Item Name	Quantity	Unit	Rate	Price
RICE	10	kg	50.0	500.0
SUGAR	5	kg	20.0	100.0
SALT	2	kg	30.0	60.0

SubTotal: 660.00

Discount: 10%

Total: 594.00

Paid: 500.00

Customer Balance: 94.00

Thank you for your purchase!

VIEW CUSTOMER BALANCE:

Input

?

Enter Mobile Number:

OK

Cancel

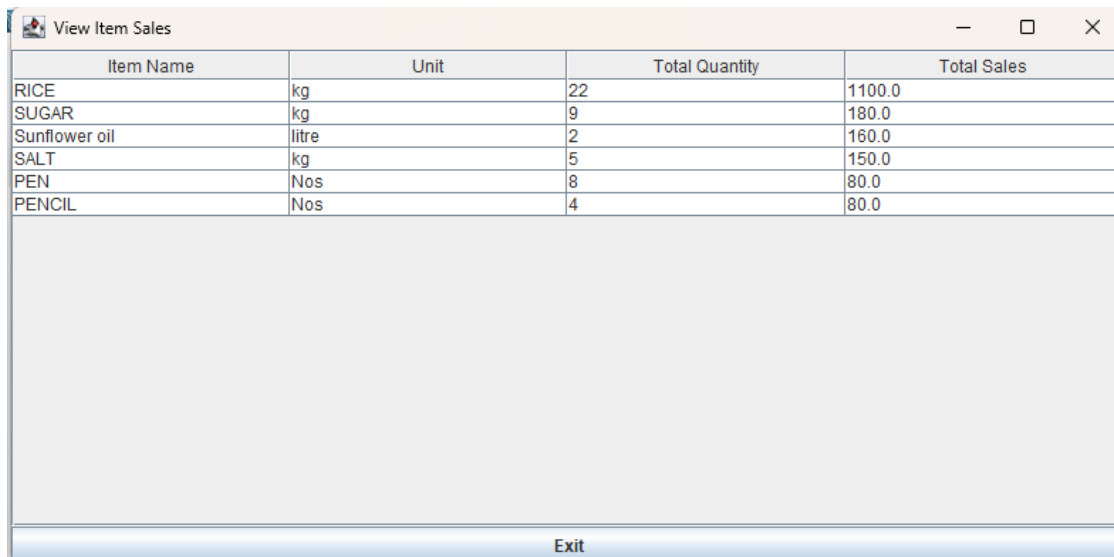
Customer Balance

i

Customer Balance: 94.0

OK

VIEW ITEM SALES:



The screenshot shows a window titled "View Item Sales" with a table containing the following data:

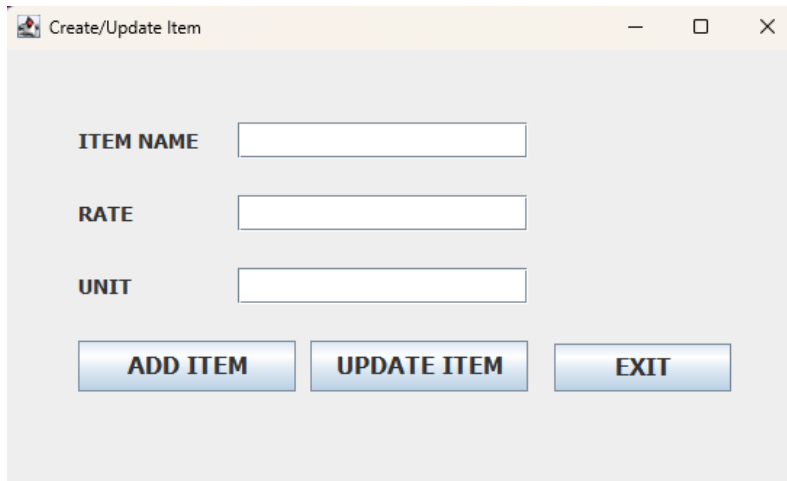
Item Name	Unit	Total Quantity	Total Sales
RICE	kg	22	1100.0
SUGAR	kg	9	180.0
Sunflower oil	litre	2	160.0
SALT	kg	5	150.0
PEN	Nos	8	80.0
PENCIL	Nos	4	80.0

Below the table is a large empty rectangular area. At the bottom of the window is an "Exit" button.

CREATE ITEM:

Item Creation Process:

- Click the "Create Item" button to start item creation.
- Enter the item name, rate, and unit.
- If updating an existing item, use the "Update Item" button to modify its details.



The screenshot shows a window titled "Create/Update Item" with the following layout:

- Three input fields labeled "ITEM NAME", "RATE", and "UNIT" are arranged vertically.
- Below the input fields are three buttons: "ADD ITEM", "UPDATE ITEM", and "EXIT".

DATABASE: MYSQL

Table Descriptions for Invoice Billing System

Customers Table:

	CustomerID	Name	MobileNumber	Balance
▶	1	Mari	8015589114	94
	2	Ramu	6385267496	6
	3	Swathi	6789012345	9
	4	Yogu	9908456732	0
	5	Madhumita	9089765321	8.0999999999999994
✱	NULL	NULL	NULL	NULL

Items Table:

	ItemID	ItemName	Unit	Rate
▶	1	RICE	kg	50
	2	SUGAR	kg	20
	3	Sunflower oil	litre	80
	4	SALT	kg	30
	5	PEN	Nos	10
	6	PENCIL	Nos	20
	10	Soap	Nos	30
✱	NULL	NULL	NULL	NULL

Invoices Table:

[illegible]

Invoice details table:

	InvoiceDetailID	InvoiceID	ItemID	Quantity	Price
▶	1	1	1	10	500
	2	1	2	5	100
	3	1	4	2	60
	4	2	1	2	100
	5	2	2	4	80
	6	2	3	2	160
	7	3	4	3	90
	8	3	5	5	50
	9	3	6	4	80
	10	4	1	10	500
	11	4	5	3	30
	12	5	2	1	20
	13	5	1	3	150
*	NULL	NULL	NULL	NULL	NULL