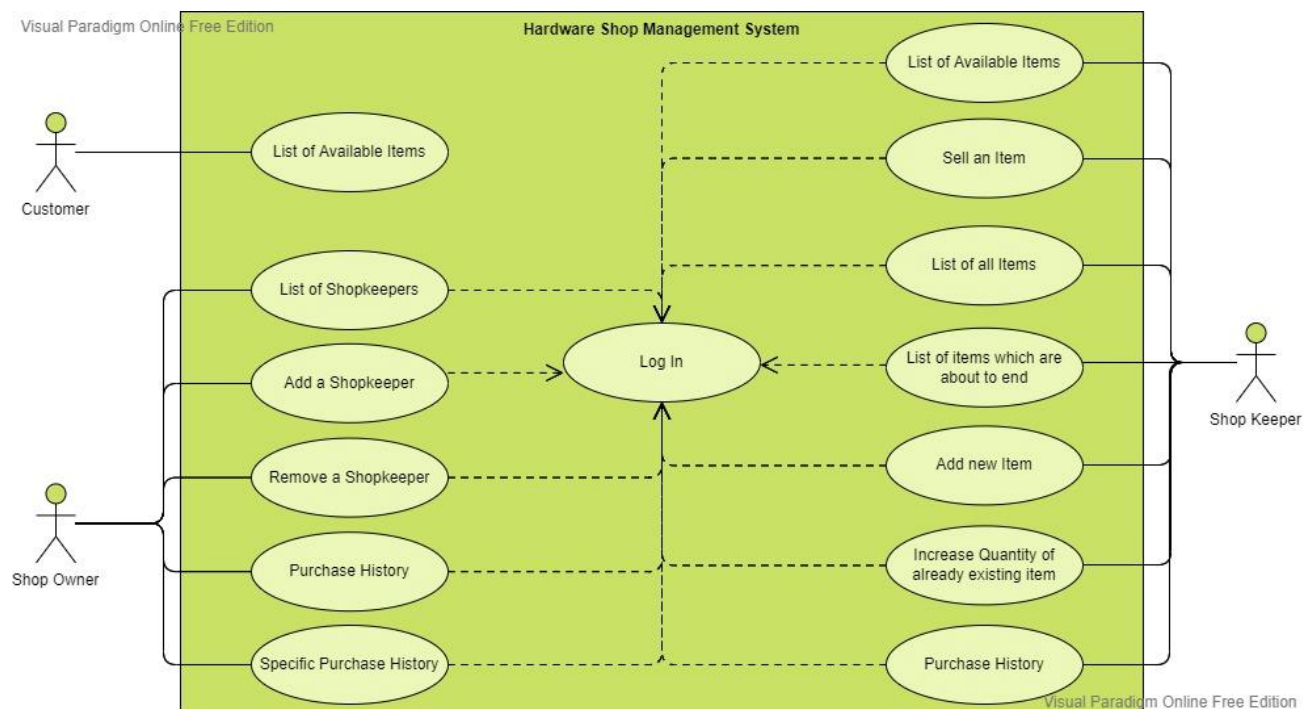
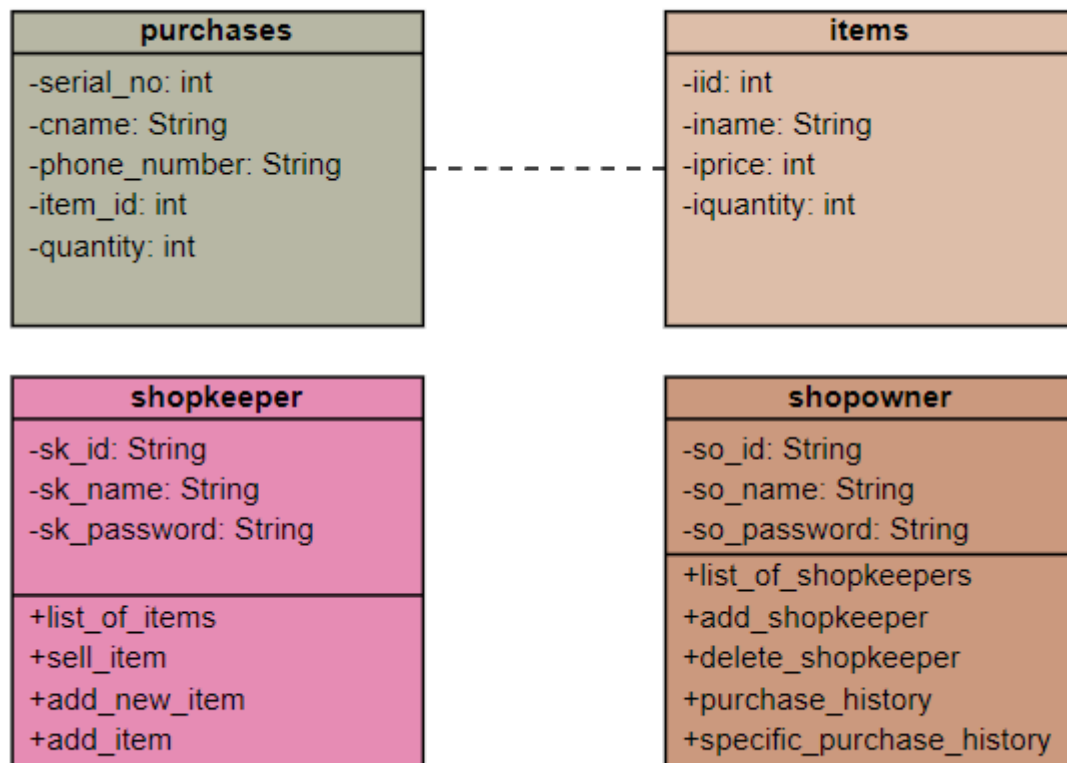


# HARDWARE SHOP MANAGEMENT SYSTEM

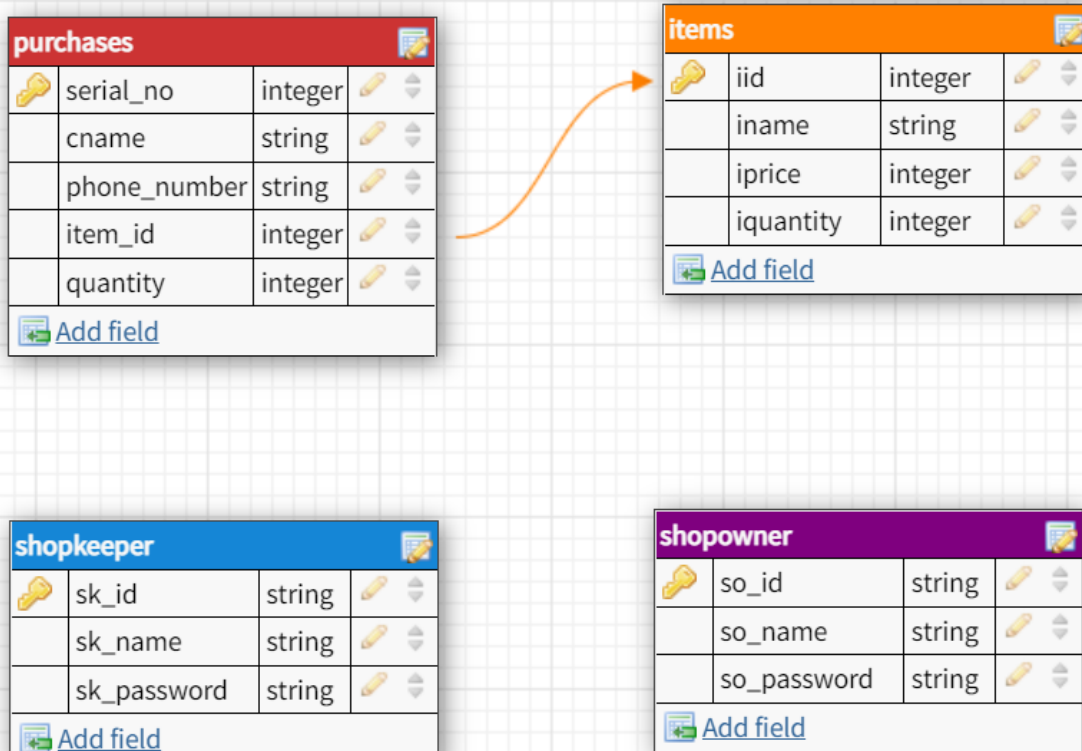
## Use Case Diagram



## UML Diagram



## OR Mapping



## Output Screenshots

- Main Menu

```
WELCOME TO JOHN'S HARDWARE SHOP

Login as :
1. Customer
2. Shop Keeper
3. Shop Owner
0. Exit

ENTER YOUR CHOICE :
```

- Customer Menu

```
Please select any of the options:
1. List of Items
0. Back

ENTER YOUR CHOICE : _
```

- List of available items for purchase

```
List of Items:

Item ID : 100
Item Name : Hammer
Item Price : 700
Quantity Left : 15

Item ID : 101
Item Name : Handsaw
Item Price : 2000
Quantity Left : 5

Item ID : 102
Item Name : Screwdriver
Item Price : 300
Quantity Left : 20

Please select any of the options:
1. List of Items
0. Back

ENTER YOUR CHOICE : _
```

- **Shopkeeper Login**

```
Enter your ID: sk1
Enter your Password: 1234_
```

- **Shopkeeper Menu**

```
Please select any option:
1. List of available items
2. Sell an item
3. List of all items
4. List of items which are about to end
5. Add a new item
6. Increase Quantity of already existing item
7. Purchase History
0. Back

ENTER YOUR CHOICE : _
```

- **Selling an item**

```
Enter Item ID : 101

Enter Quantity : 4

Enter Customer Name : xyz

Enter Phone Number : 9999999999
```

- **Successful update of records**

```
ITEM RECORD HAS BEEN UPDATED SUCCESFULLY!!

PURCHASE RECORD HAS BEEN UPDATED SUCCESFULLY!!
```

```
List of Items:

Item ID : 100
Item Name : Hammer
Item Price : 700
Quantity Left : 15

Item ID : 101
Item Name : Handsaw
Item Price : 2000
Quantity Left : 1

Item ID : 102
Item Name : Screwdriver
Item Price : 300
Quantity Left : 20
```

- List of items which are about to end (Less than 3)

```
List of Items:
```

```
Item ID : 101  
Item Name : Handsaw  
Item Price : 2000  
Quantity Left : 1
```

- Add New Item

```
Enter Item Name : CordlessDrill  
  
Enter Item Price : 3500  
  
Enter Item Quantity : 5
```

- Successfully added in table

```
List of Items:
```

```
Item ID : 100  
Item Name : Hammer  
Item Price : 700  
Quantity Left : 15
```

```
Item ID : 101  
Item Name : Handsaw  
Item Price : 2000  
Quantity Left : 1
```

```
Item ID : 102  
Item Name : Screwdriver  
Item Price : 300  
Quantity Left : 20
```

```
Item ID : 103  
Item Name : CordlessDrill  
Item Price : 3500  
Quantity Left : 5
```

- Adding Quantity

```
Enter Item Id : 103  
  
Enter Quantity : 5
```

- **Successful addition**

List of Items:

Item ID : 100

Item Name : Hammer

Item Price : 700

Quantity Left : 15

Item ID : 101

Item Name : Handsaw

Item Price : 2000

Quantity Left : 1

Item ID : 102

Item Name : Screwdriver

Item Price : 300

Quantity Left : 20

Item ID : 103

Item Name : CordlessDrill

Item Price : 3500

Quantity Left : 10

- **Sold the only handsaw which is left -> Present in all items but not in available items**

List of Items:

Item ID : 100

Item Name : Hammer

Item Price : 700

Quantity Left : 15

Item ID : 101

Item Name : Handsaw

Item Price : 2000

Quantity Left : 0

Item ID : 102

Item Name : Screwdriver

Item Price : 300

Quantity Left : 20

Item ID : 103

Item Name : CordlessDrill

Item Price : 3500

Quantity Left : 10

List of Items:

Item ID : 100

Item Name : Hammer

Item Price : 700

Quantity Left : 15

Item ID : 102

Item Name : Screwdriver

Item Price : 300

Quantity Left : 20

Item ID : 103

Item Name : CordlessDrill

Item Price : 3500

Quantity Left : 10

- **Purchase History**

```
Purchase History :  
  
Serial No.: 1  
Customer Name: xyz  
Customer Phone Number: 9999999999  
Item ID: 101  
Quantity: 4  
  
Serial No.: 2  
Customer Name: asdf  
Customer Phone Number: 8888888888  
Item ID: 101  
Quantity: 1
```

- **Shop owner login**

```
Enter your ID: so1  
Enter your Password: 1234_
```

- **Shop owner menu**

```
Please select an option:  
1. List of Shopkeepers  
2. Add a Shopkeeper  
3. Delete a Shopkeeper  
4. Purchase History  
5. Specific Purchase History  
0. Back  
  
ENTER YOUR CHOICE :
```

- **List of shopkeepers**

```
List of Shopkeepers :  
  
Shopkeeper ID : sk1  
Shopkeeper Name: sk_1
```

- **Adding shopkeeper**

```
Enter Shopkeeper ID : sk2  
Enter Shopkeeper Name : sk_2  
Enter Shopkeeper Password : 1234
```

- Updated List

```
List of Shopkeepers :
```

```
Shopkeeper ID : sk1  
Shopkeeper Name: sk_1
```

```
Shopkeeper ID : sk2  
Shopkeeper Name: sk_2
```

- Delete shopkeeper credentials

```
Enter Shopkeeper ID: sk1
```

- Updated List

```
List of Shopkeepers :
```

```
Shopkeeper ID : sk2  
Shopkeeper Name: sk_2
```

- Specific Purchase History

```
Enter Customer Name: xyz
```

- Output of specific search

```
Purchase History of xyz:
```

```
Serial No.: 1  
Customer Name: xyz  
Customer Phone Number: 9999999999  
Item ID: 101  
Quantity: 4
```

- Exit

```
THANK YOU!!
```



- Error message in case tables aren't updated properly or due to wrong input

```
Something went wrong!
```

- Incorrect Login

```
Incorrect Credentials.  
  
Type Y to give inputs again  
Any other input to go back to Main Menu
```

## Notes & Instructions to run the code

First run the following commands in mysql command prompt:

```
source SQL/shop_create.sql  
source SQL/shop_alter.sql  
source SQL/shop_insert.sql
```

After these run the following commands on the terminal:

```
export CLASSPATH='/mnt/c/...../ mysql-connector-java-8.0.18.jar:.'  
(Location of .jar file)
```

```
javac Hardwareshop.java  
java Hardwareshop
```

Owner Credentials:

ID: sol

Password:1234