Diagram Design on

"Cash & Carry"

Prepared for:

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Course Number & Name:

CSE 3224 - Information & System Design Lab

Prepared by:

Lab Section: A1

Group No: 1

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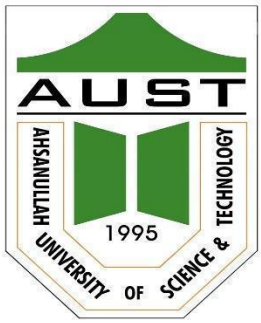
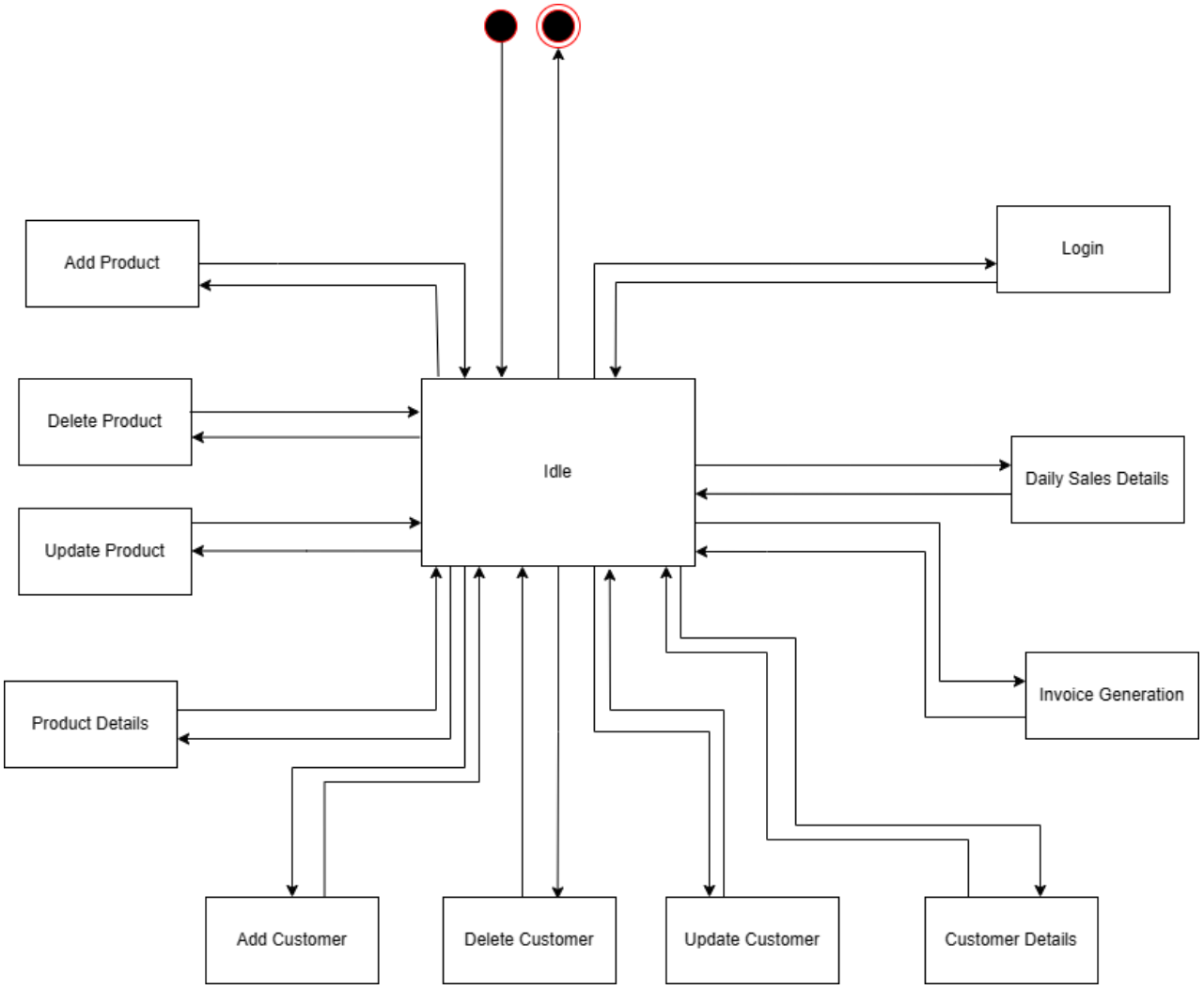
Date: 18.07.2023



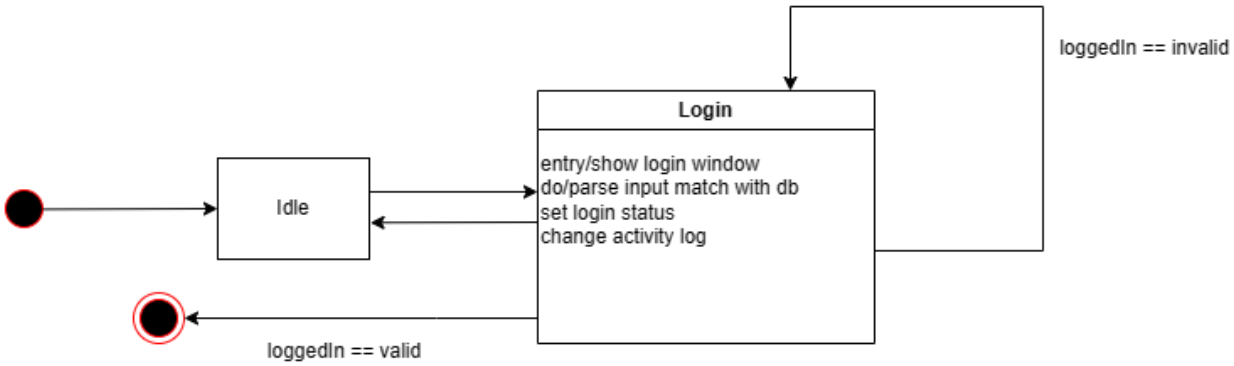
Ahsanullah University Of Science & Technology

Department of Computer Science and Engineering

State diagrams:



Fig(1)



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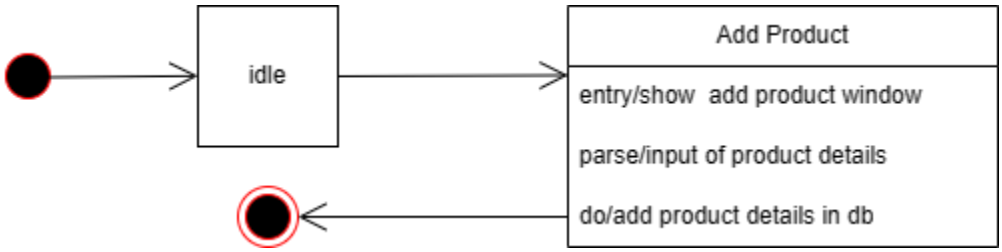
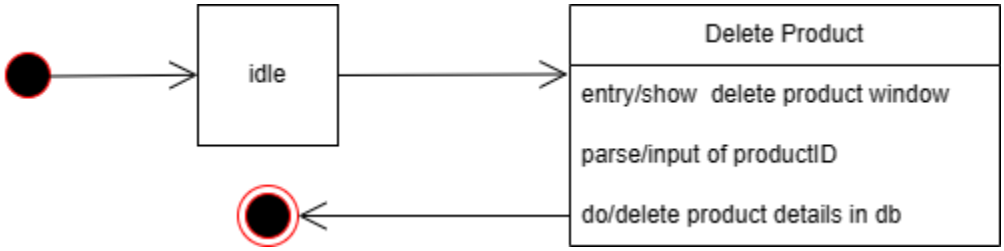
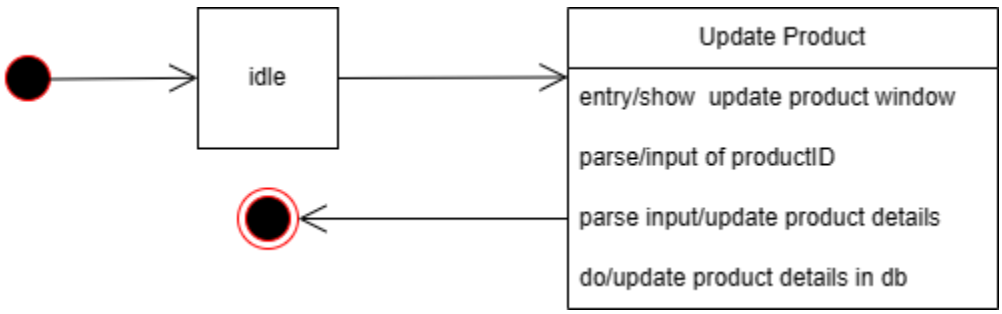


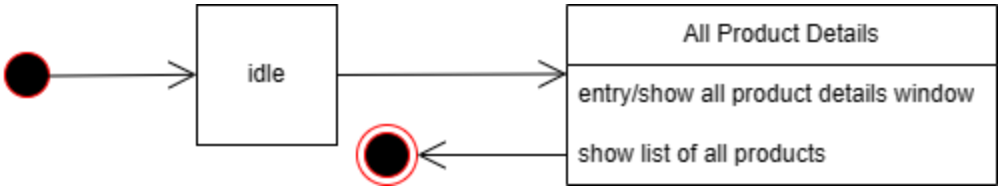
Fig(3)



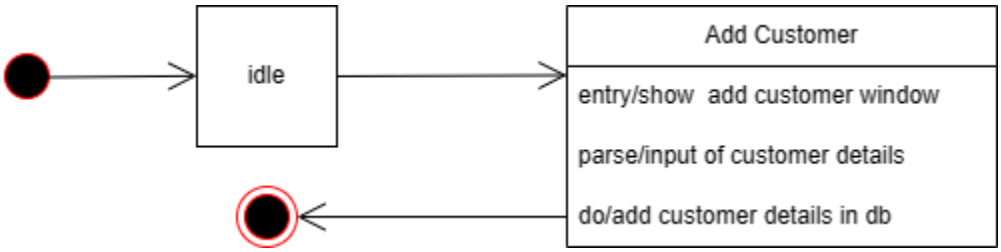
Fig(4)



Fig(5)



Fig(6)



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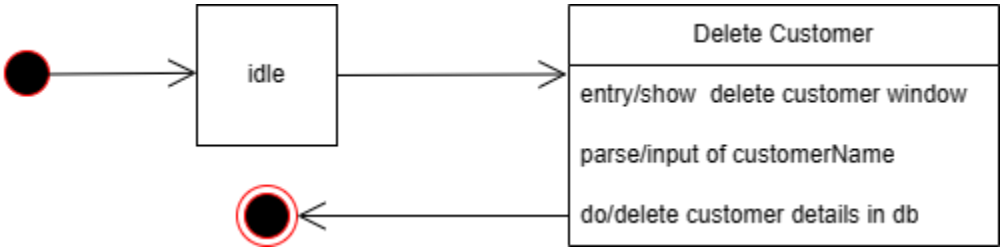

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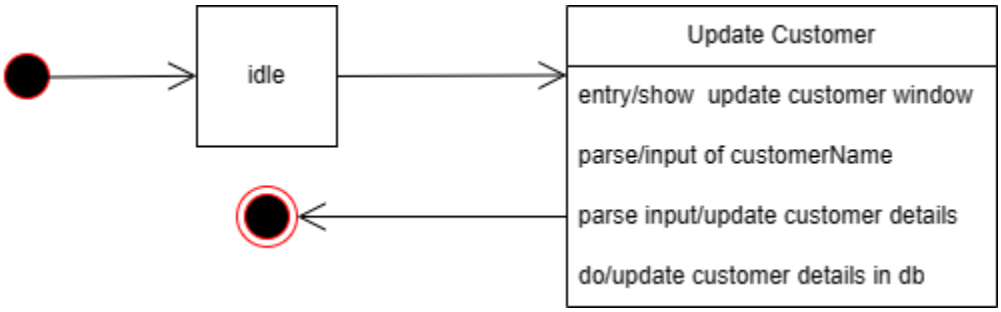

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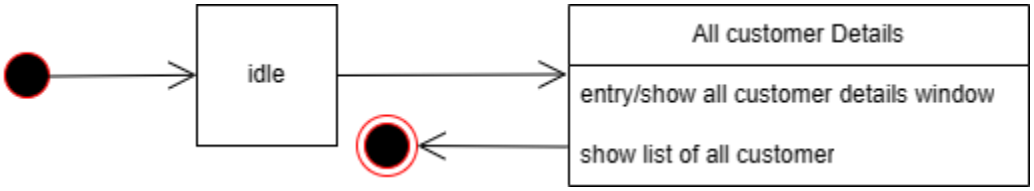
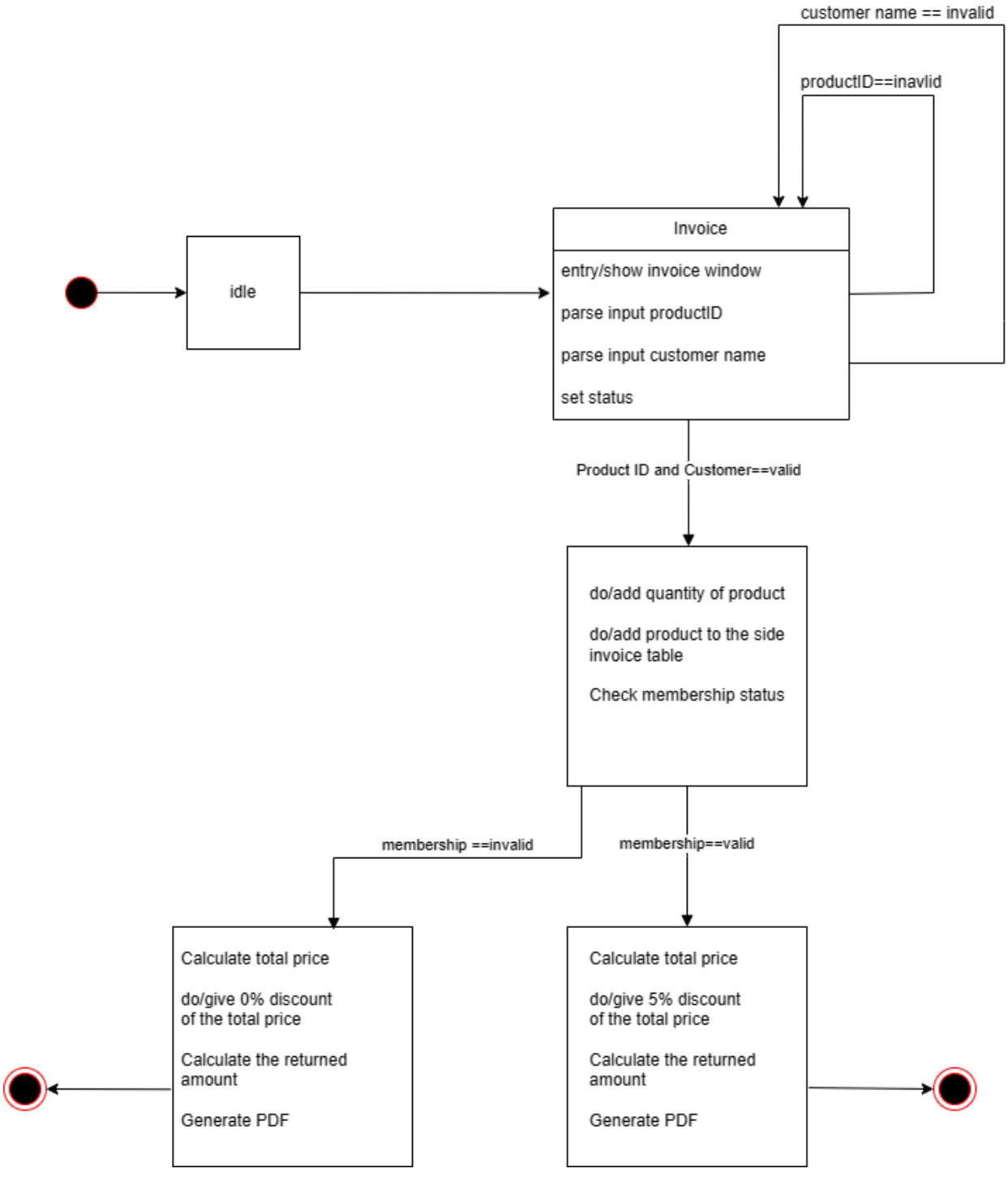


Fig(10)

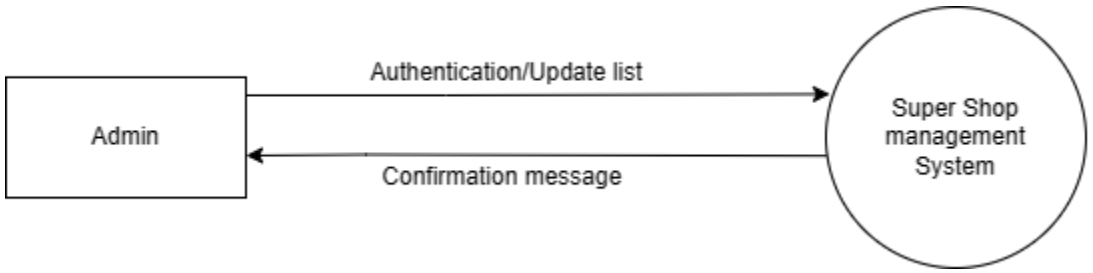
idle
Daily Sales
entry/show Daily sales window search bar
match with db
get Daily sales details list

Fig(11)

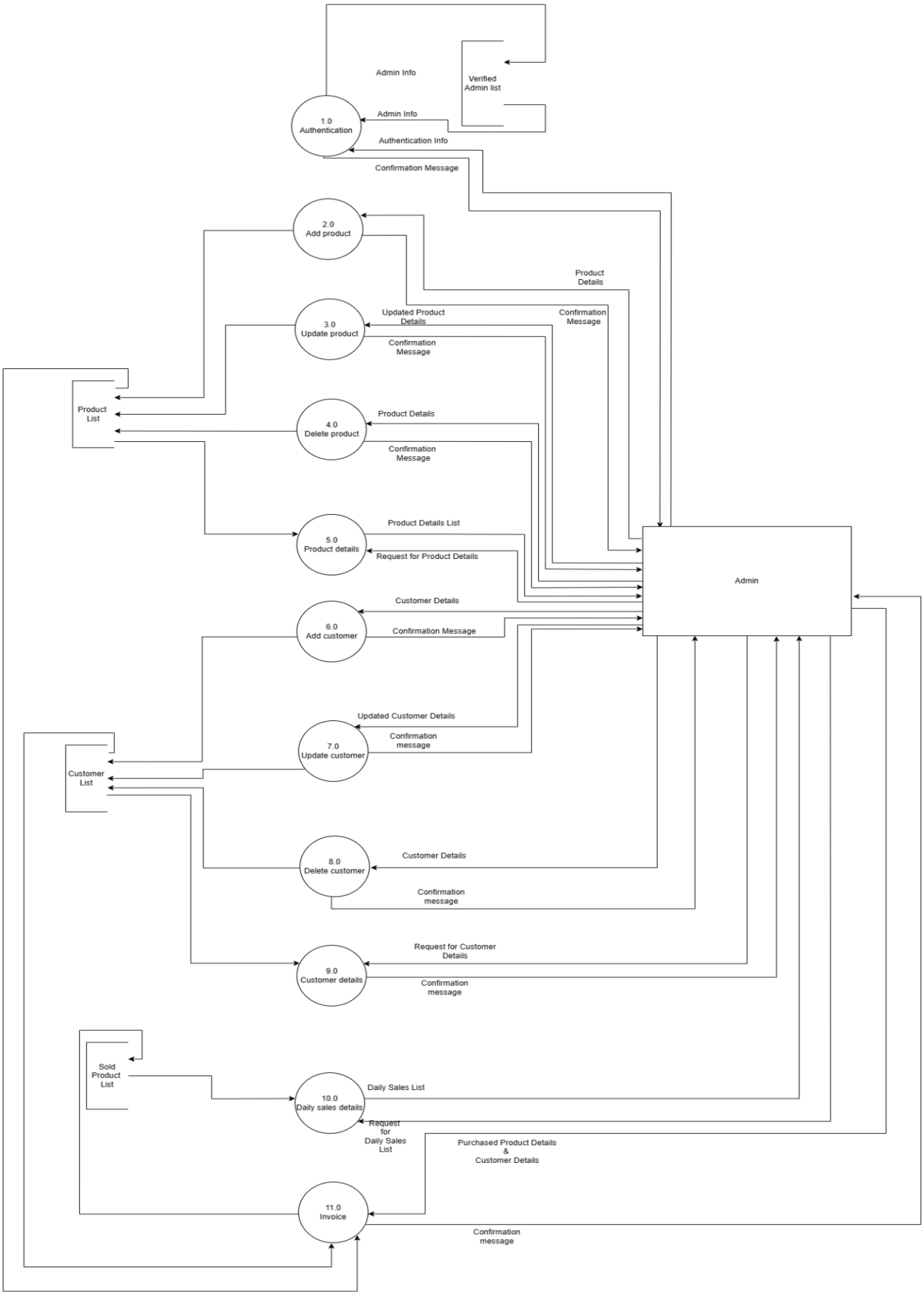

customer name == invalid
productID==inavlid
idle
Invoice
entry/show invoice window
parse input productID
parse input customer name
set status
Product ID and Customer==valid
do/add quantity of product
do/add product to the side invoice table
Check membership status
membership ==invalid
membership==valid
Calculate total price
do/give 0% discount of the total price
Calculate the returned amount
Generate PDF
Calculate total price
do/give 5% discount of the total price
Calculate the returned amount
Generate PDF

Fig(12)

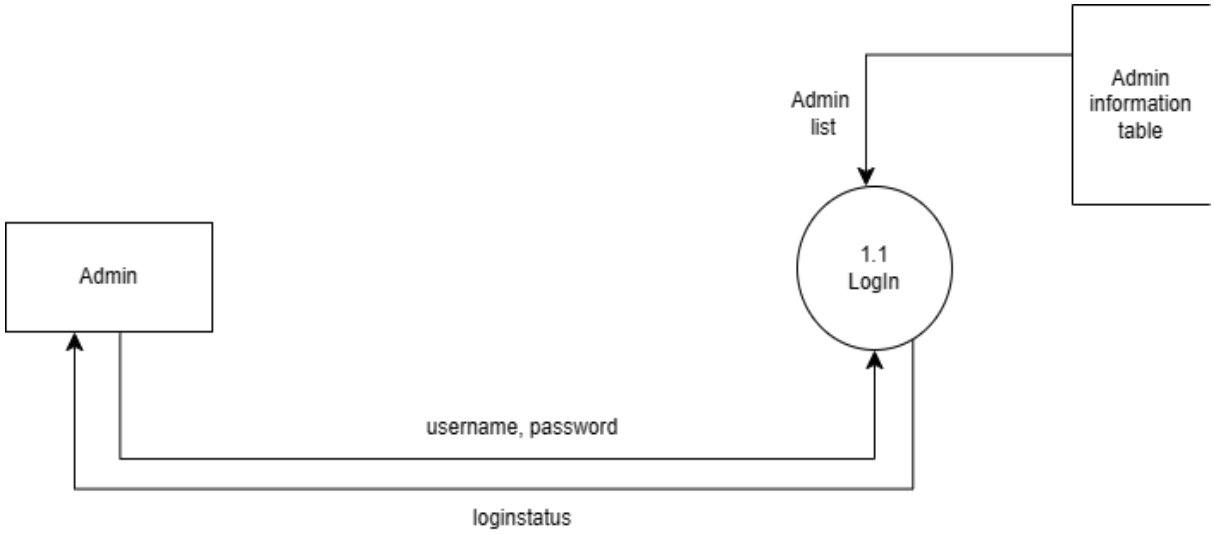
Data flow diagram:



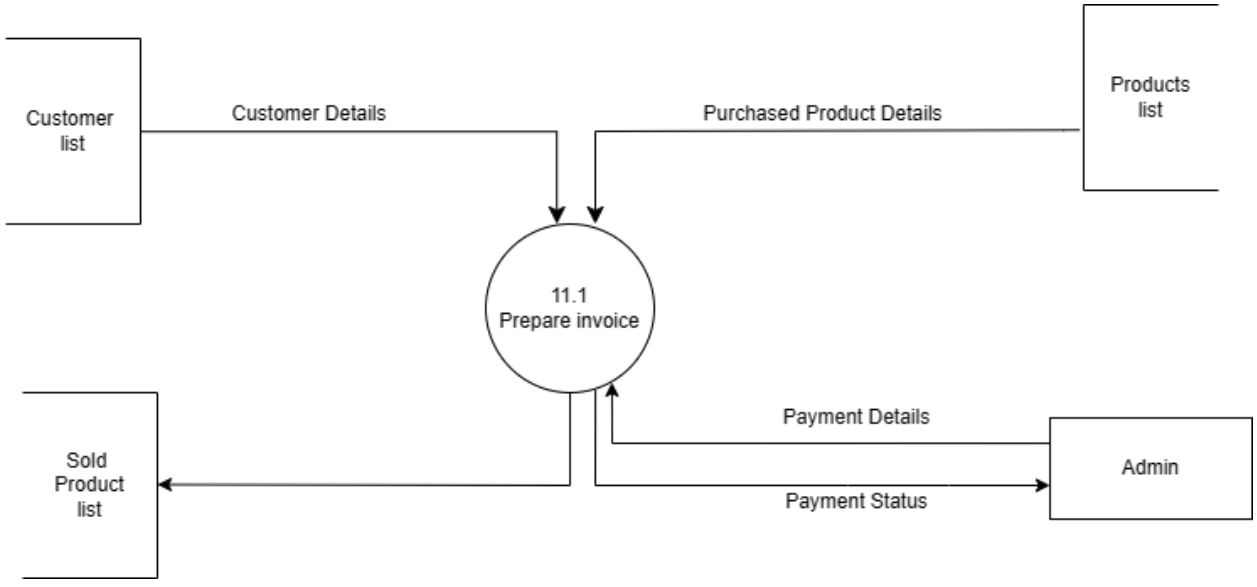
Fig(1)


Admin Info
Verified Admin list
1.0 Authentication
Admin Info
Authentication Info
Confirmation Message
2.0 Add product
Product Details
3.0 Update product
Updated Product Details
Confirmation Message
Confirmation Message
Product List
4.0 Delete product
Product Details
Confirmation Message
5.0 Product details
Product Details List
Request for Product Details
Admin
6.0 Add customer
Customer Details
Confirmation Message
Updated Customer Details
7.0 Update customer
Confirmation message
Customer List
8.0 Delete customer
Customer Details
Confirmation message
9.0 Customer details
Request for Customer Details
Confirmation message
Sold Product List
10.0 Daily sales details
Daily Sales List
Request for Daily Sales List
Purchased Product Details & Customer Details
11.0 Invoice
Confirmation message

Fig(2)

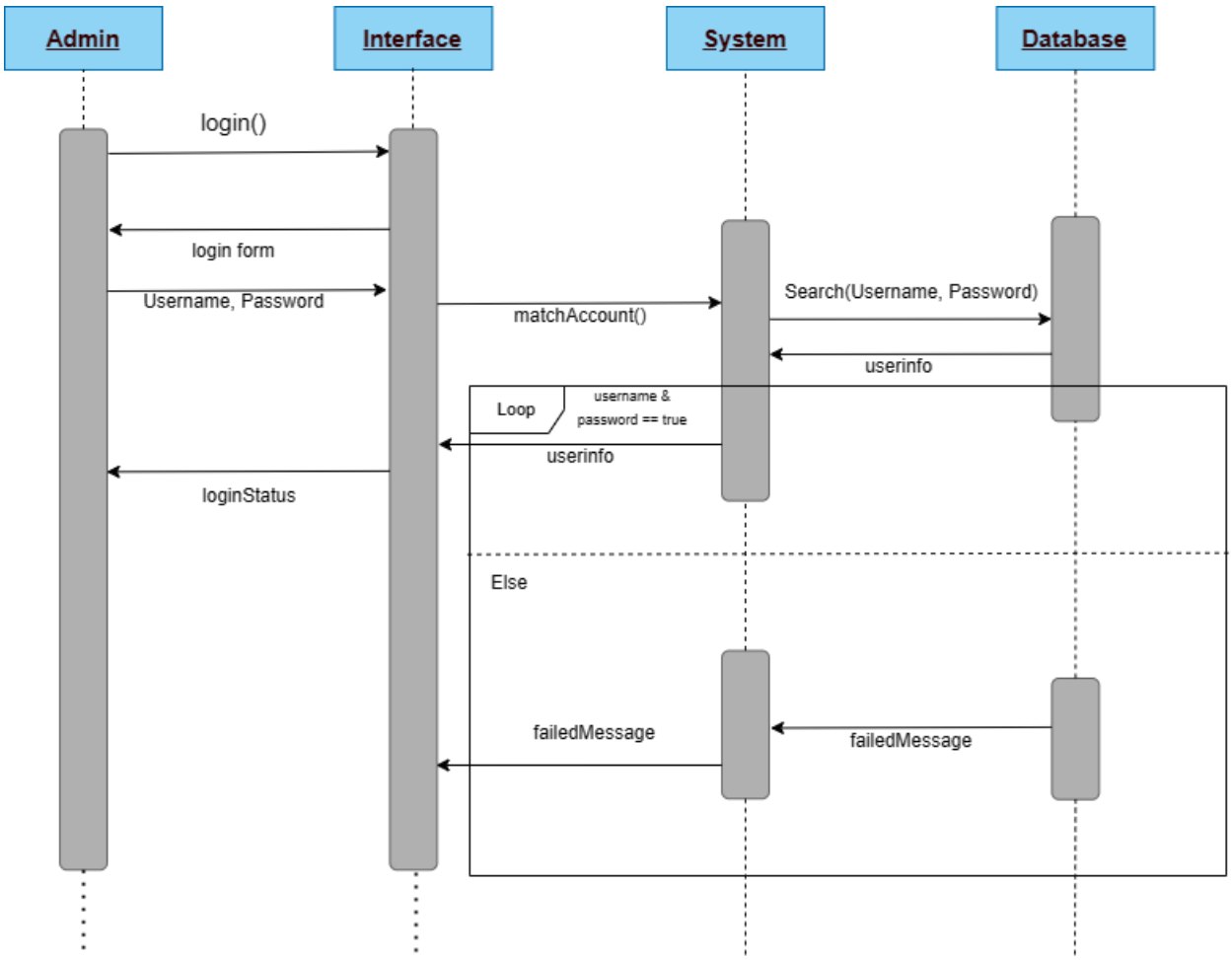

Admin information table
Admin list
1.1 LogIn
Admin
username, password
loginstatus

Fig(3)

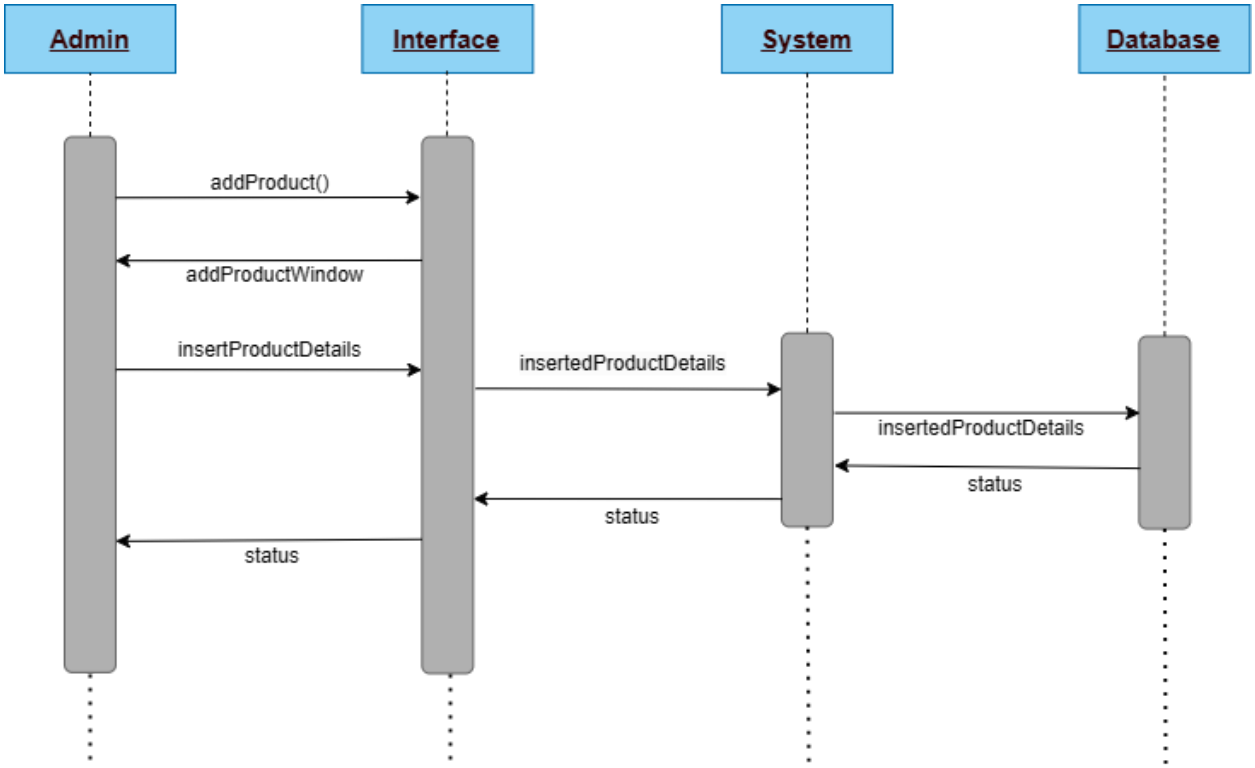

Customer list
Customer Details
Purchased Product Details
Products list
11.1 Prepare invoice
Payment Details
Sold Product list
Admin
Payment Status

Fig(4)

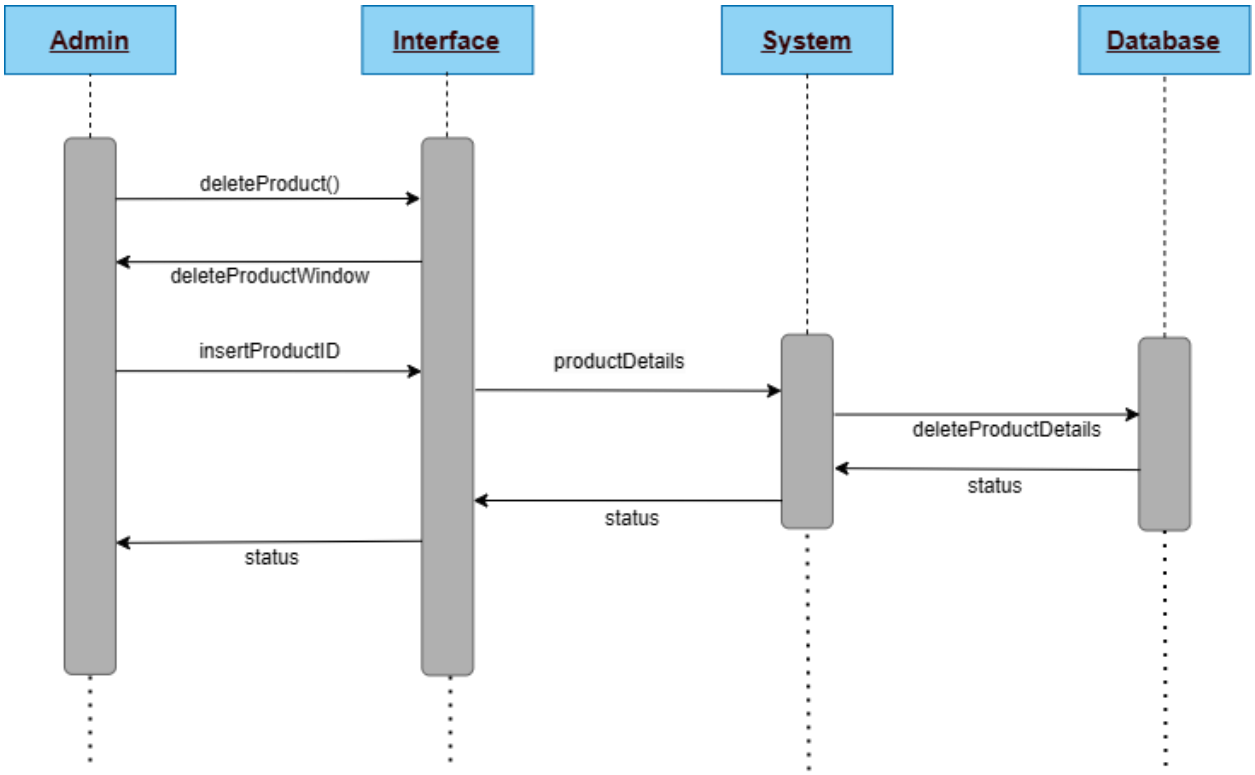
Sequence diagram:



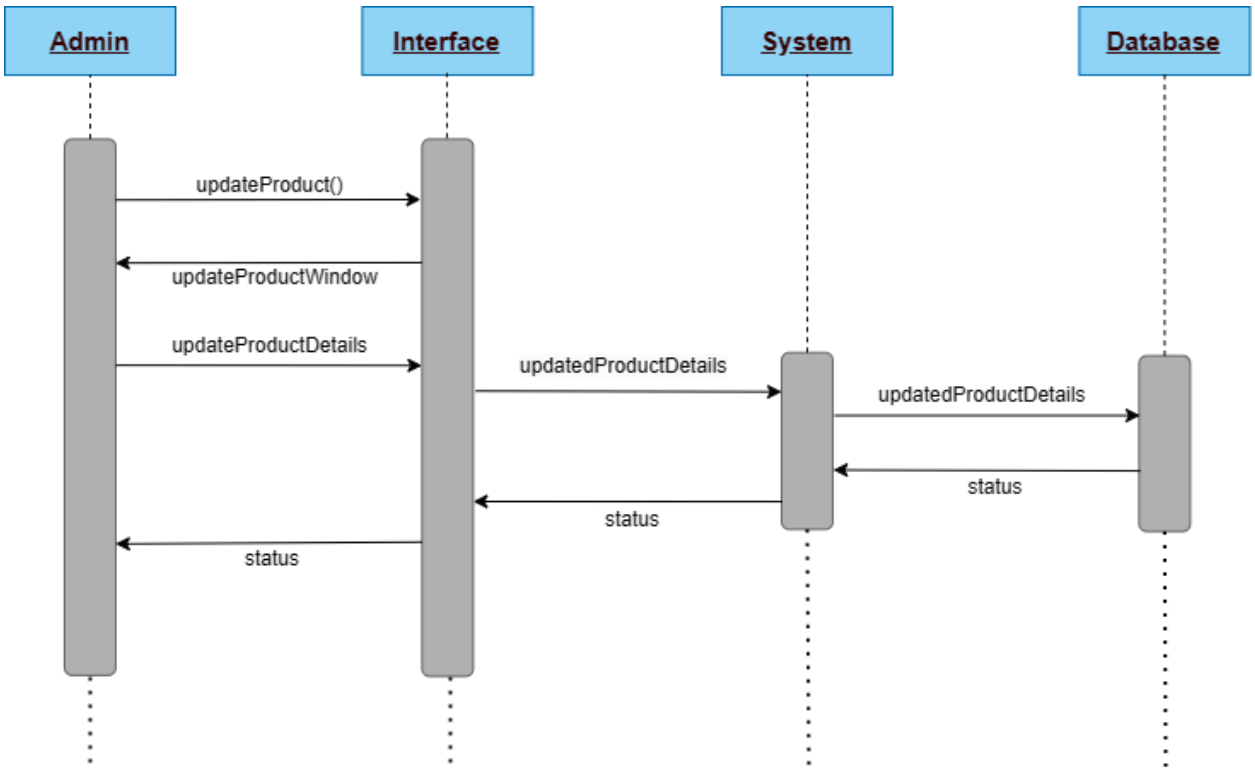
Fig(1)


Admin
Interface
System
Database
addProduct()
addProductWindow
insertProductDetails
insertedProductDetails
insertedProductDetails
status
status
status

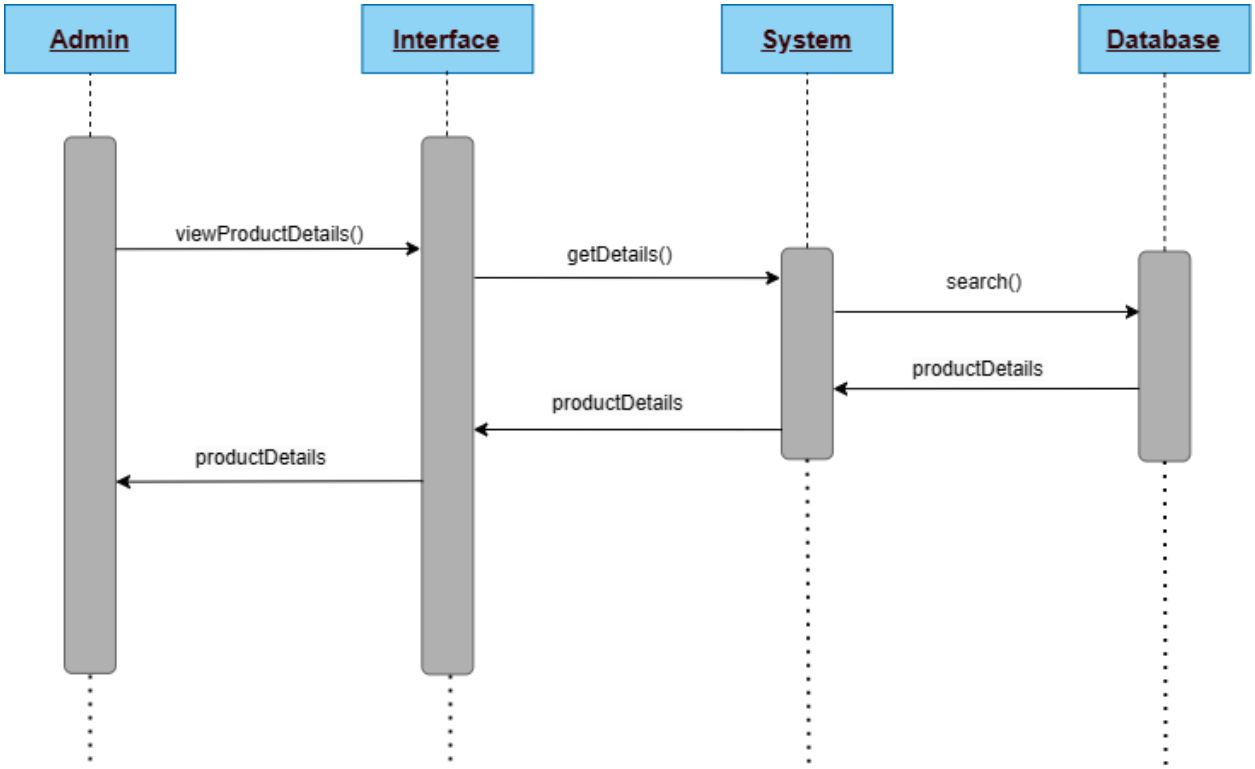
Fig(2)


Admin
Interface
System
Database
deleteProduct()
deleteProductWindow
insertProductID
productDetails
deleteProductDetails
status
status
status

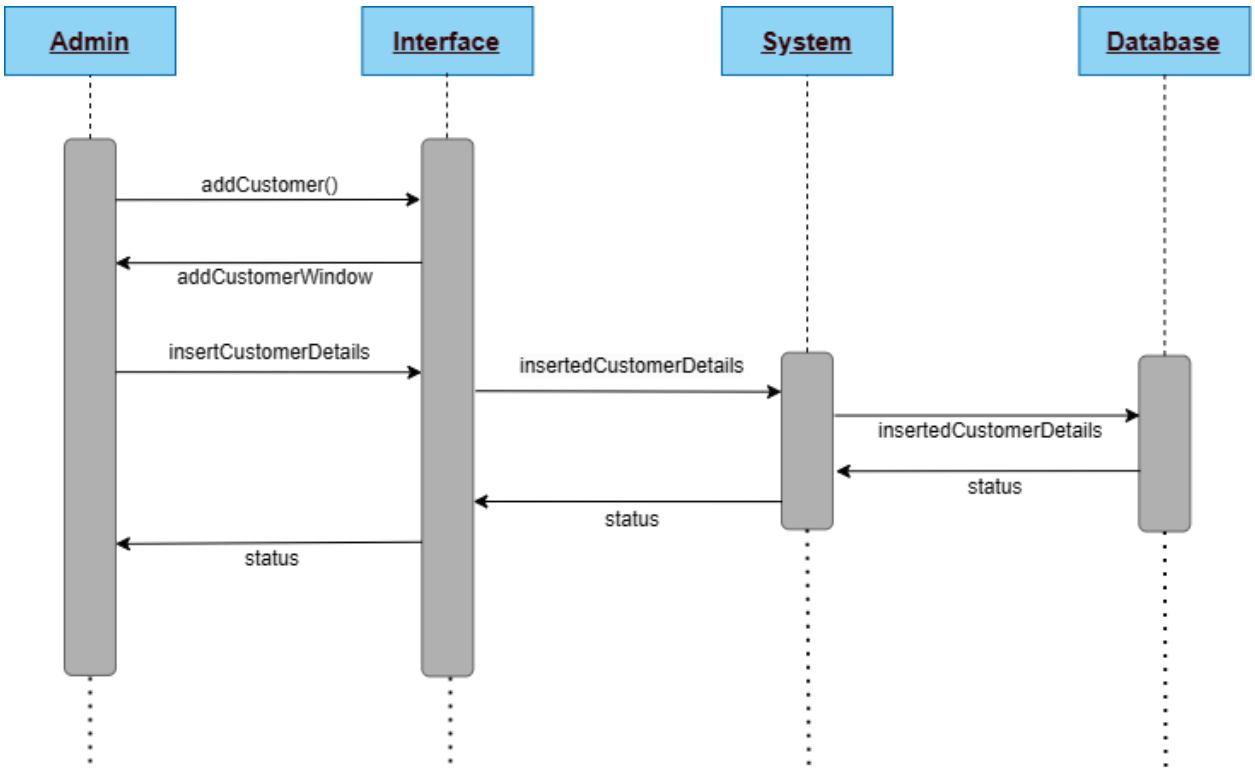
Fig(3)


Admin
Interface
System
Database
updateProduct()
updateProductWindow
updateProductDetails
updatedProductDetails
updatedProductDetails
status
status
status

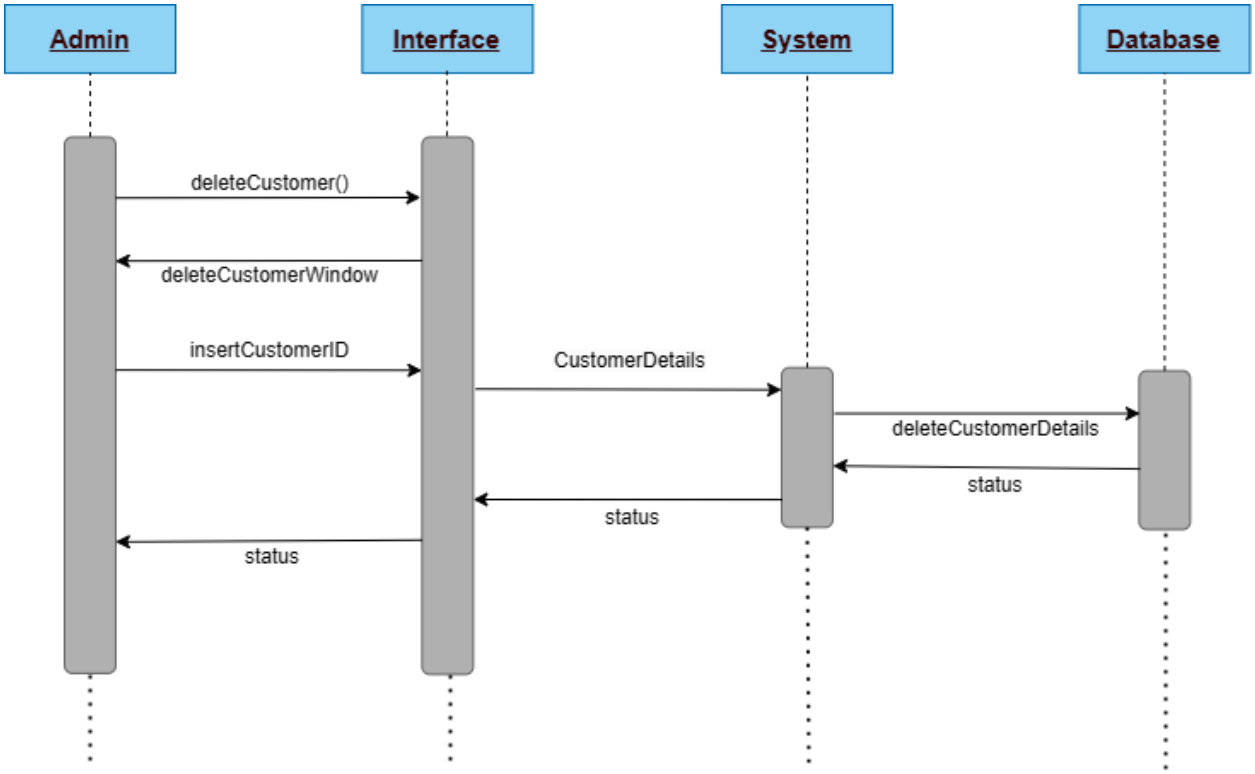
Fig(4)


Admin
Interface
System
Database
viewProductDetails()
getDetails()
search()
productDetails
productDetails
productDetails

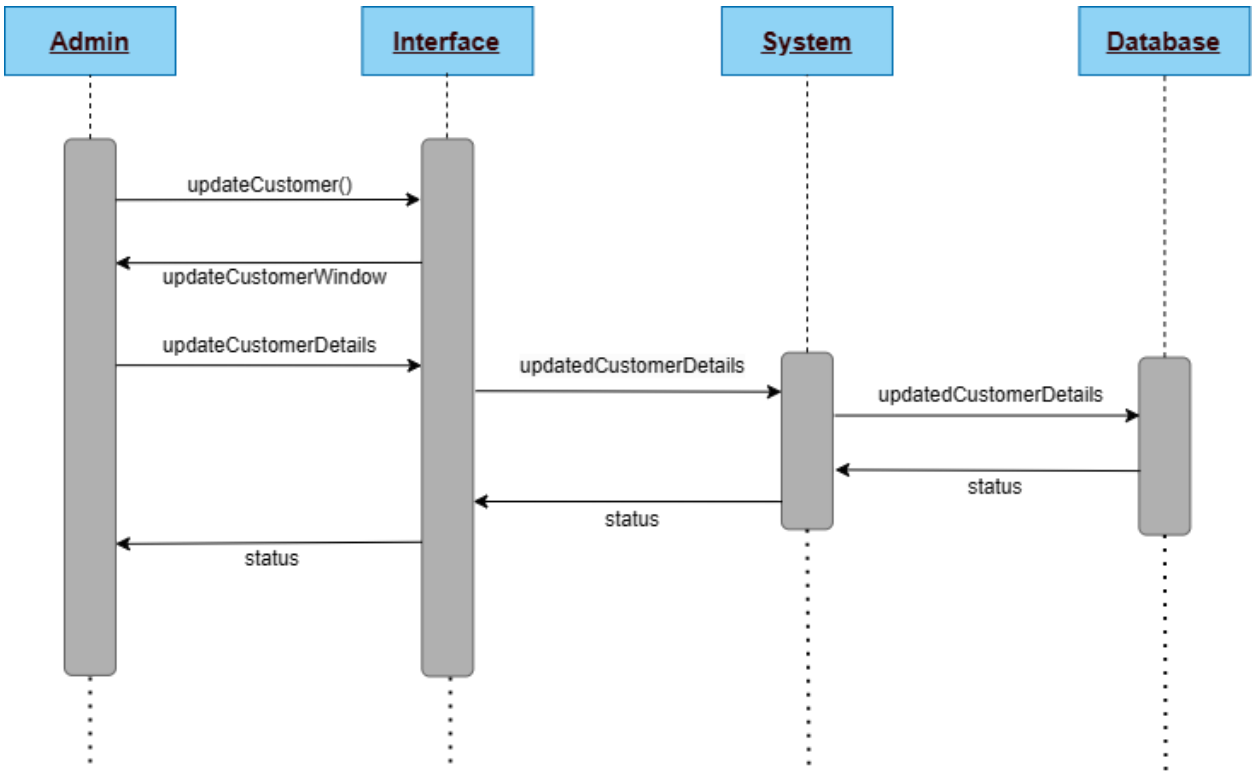
Fig(5)


Admin
Interface
System
Database
addCustomer()
addCustomerWindow
insertCustomerDetails
insertedCustomerDetails
insertedCustomerDetails
status
status
status

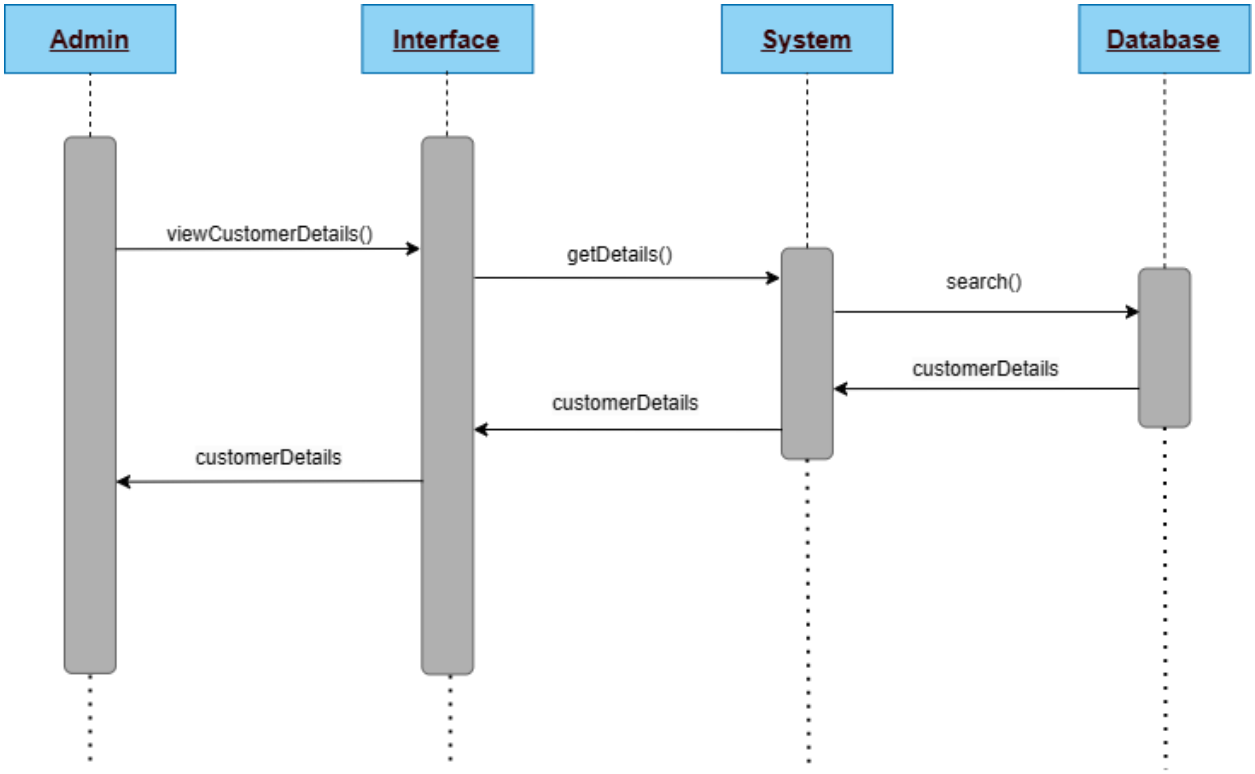
Fig(6)


Admin
Interface
System
Database
deleteCustomer()
deleteCustomerWindow
insertCustomerID
CustomerDetails
deleteCustomerDetails
status
status
status

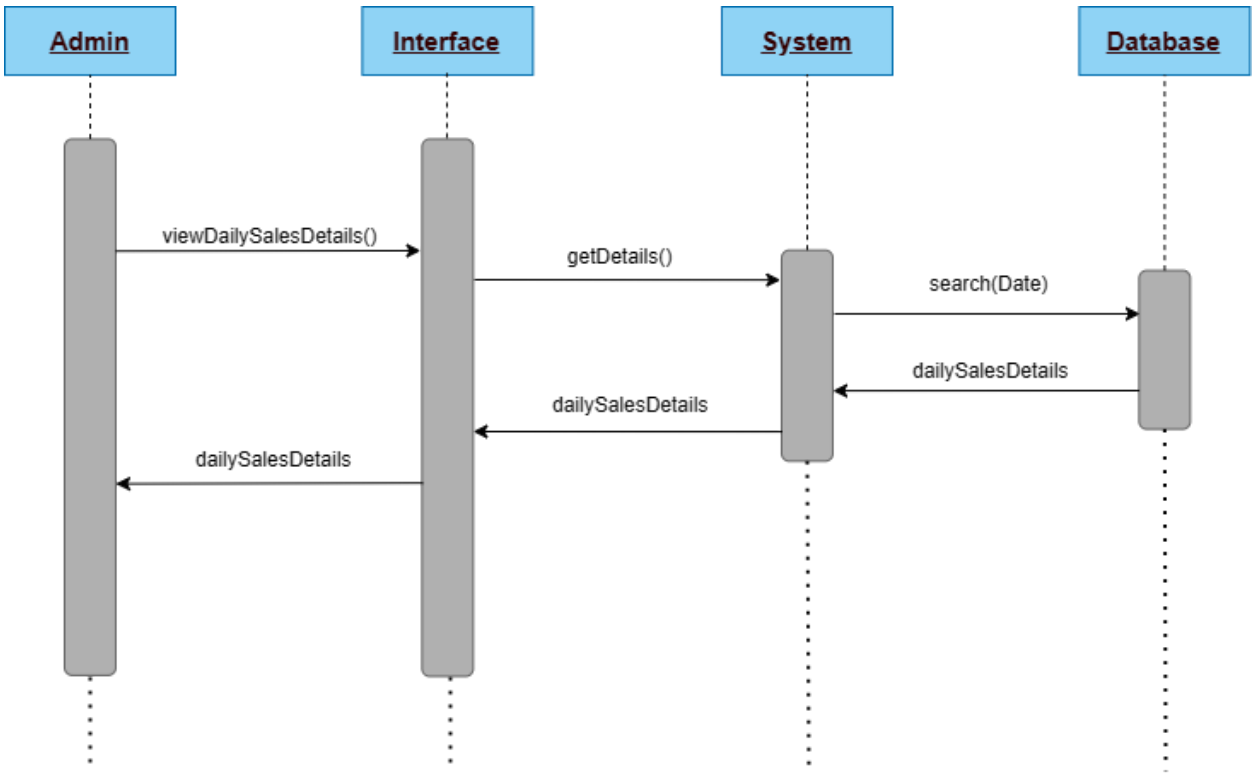
Fig(7)


Admin
Interface
System
Database
updateCustomer()
updateCustomerWindow
updateCustomerDetails
updatedCustomerDetails
updatedCustomerDetails
status
status
status

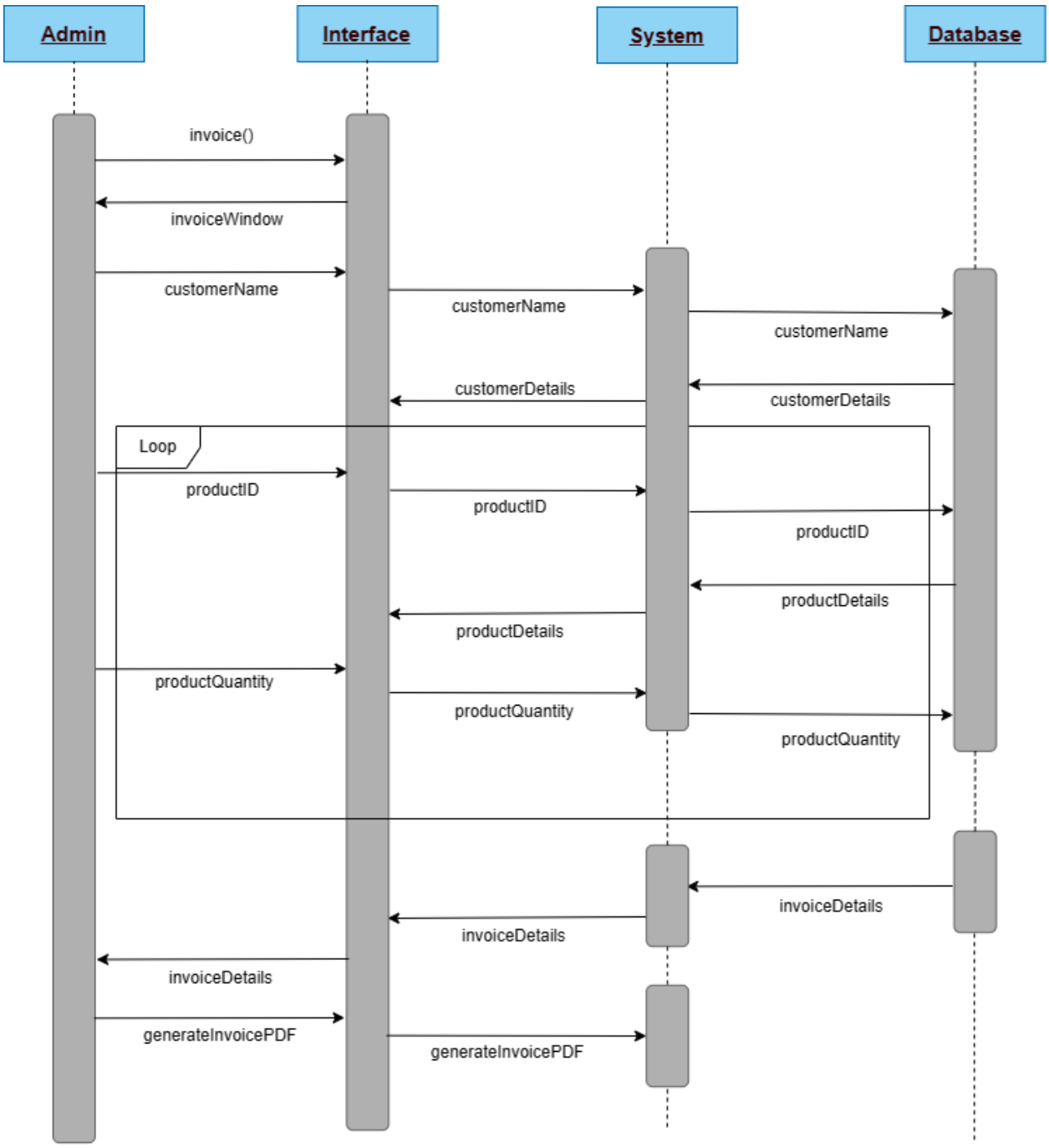
Fig(8)


Admin
Interface
System
Database
viewCustomerDetails()
getDetails()
search()
customerDetails
customerDetails
customerDetails

Fig(9)


Admin
Interface
System
Database
viewDailySalesDetails()
getDetails()
search(Date)
dailySalesDetails
dailySalesDetails
dailySalesDetails

Fig(10)


Admin
Interface
System
Database
invoice()
invoiceWindow
customerName
customerName
customerName
customerDetails
customerDetails
Loop
productID
productID
productID
productDetails
productDetails
productQuantity
productQuantity
productQuantity
invoiceDetails
invoiceDetails
invoiceDetails
generateInvoicePDF
generateInvoicePDF

Fig(11)