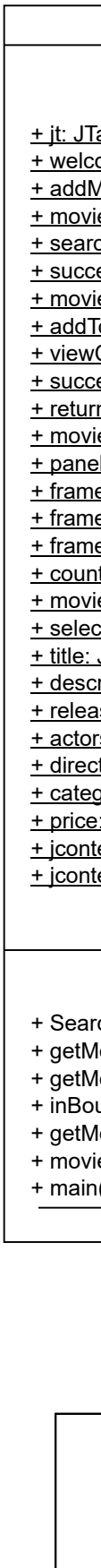
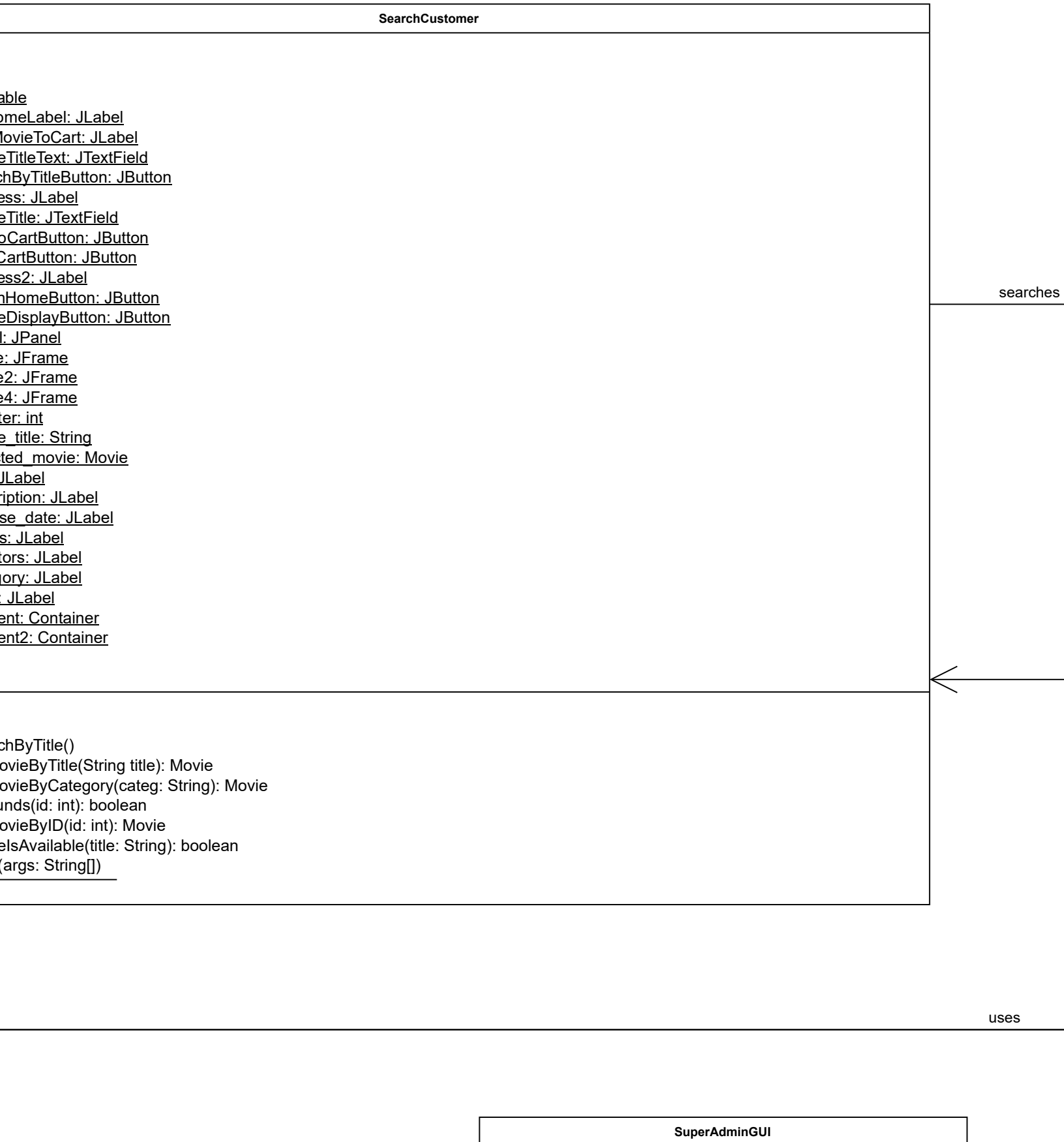
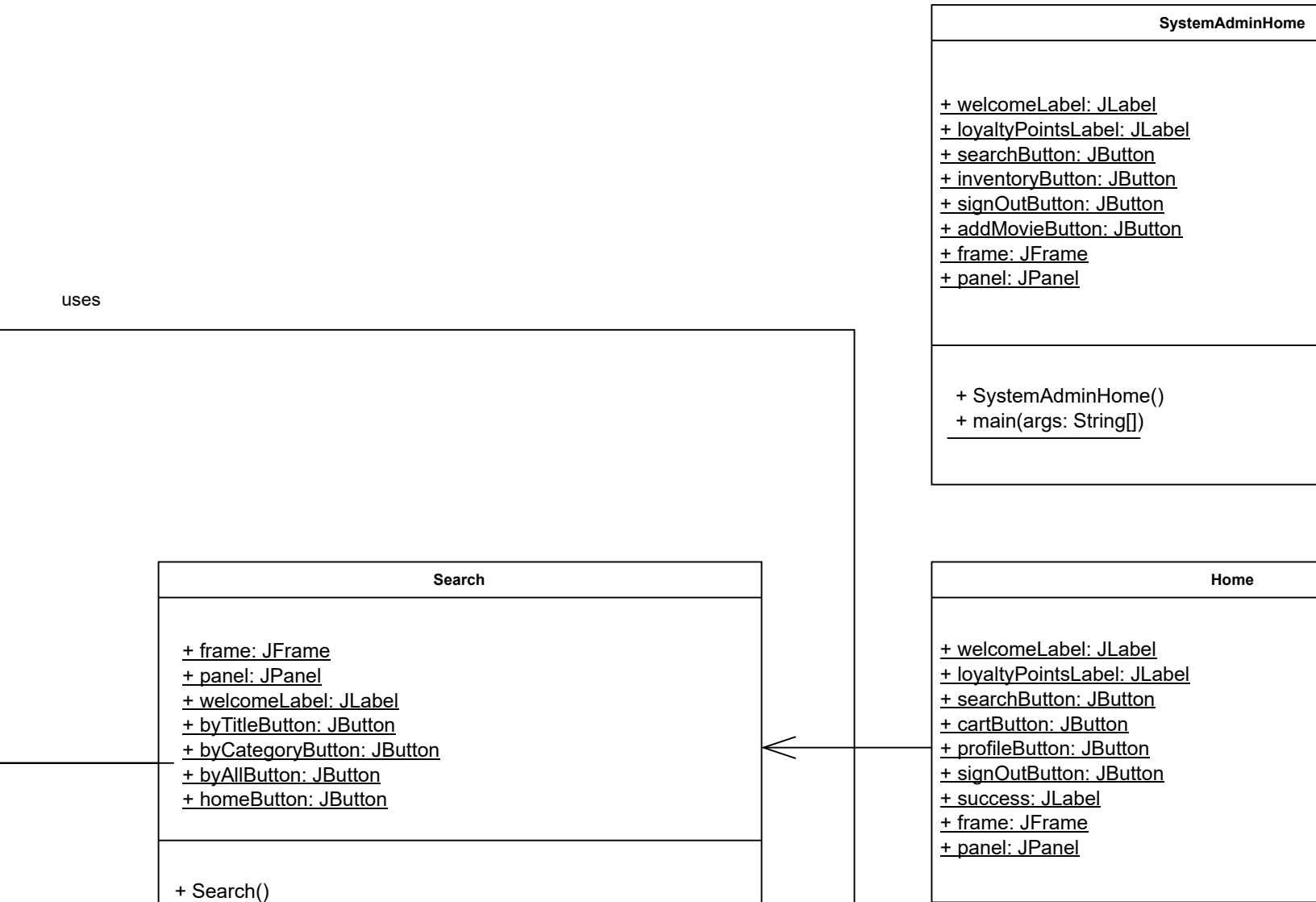
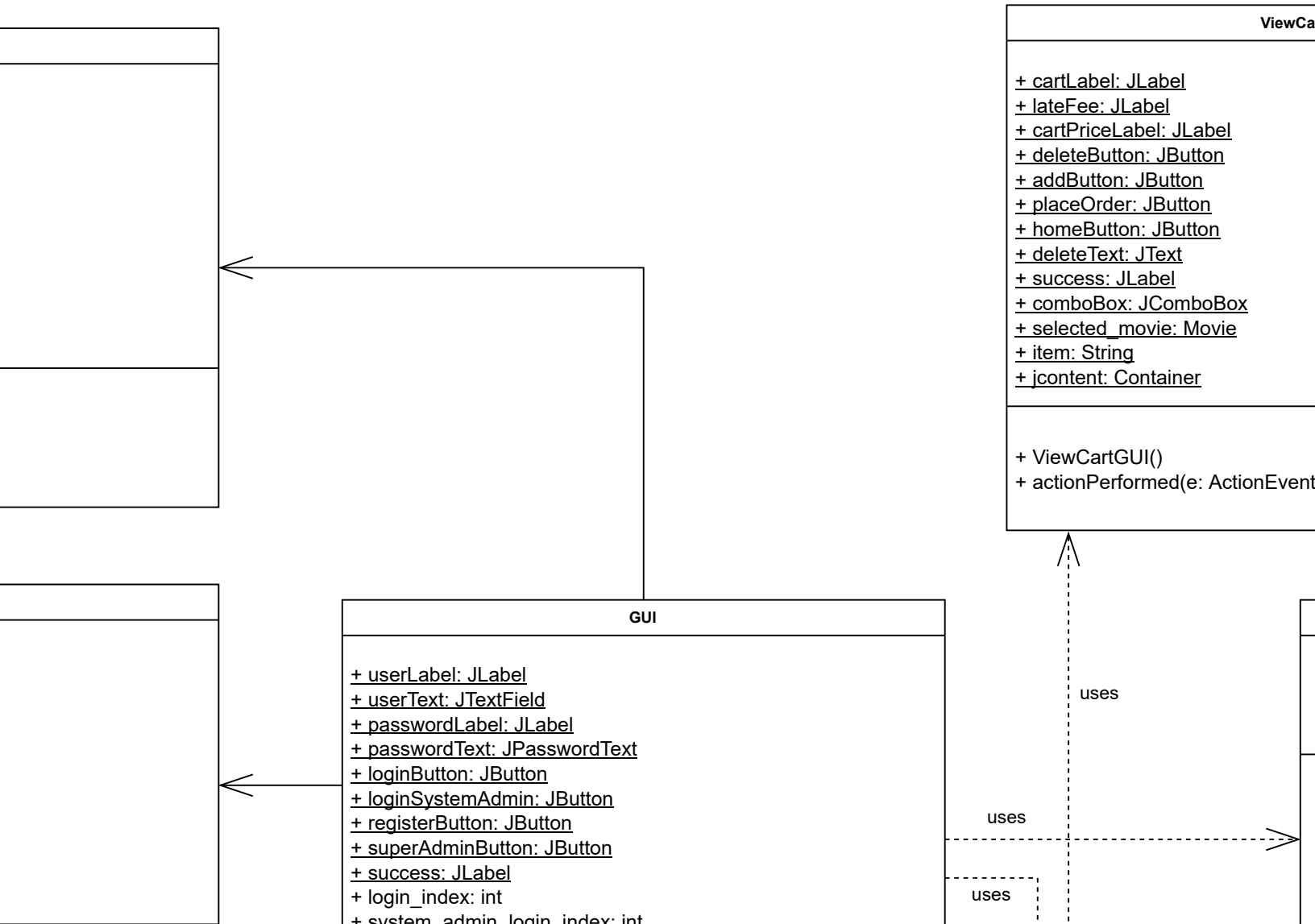
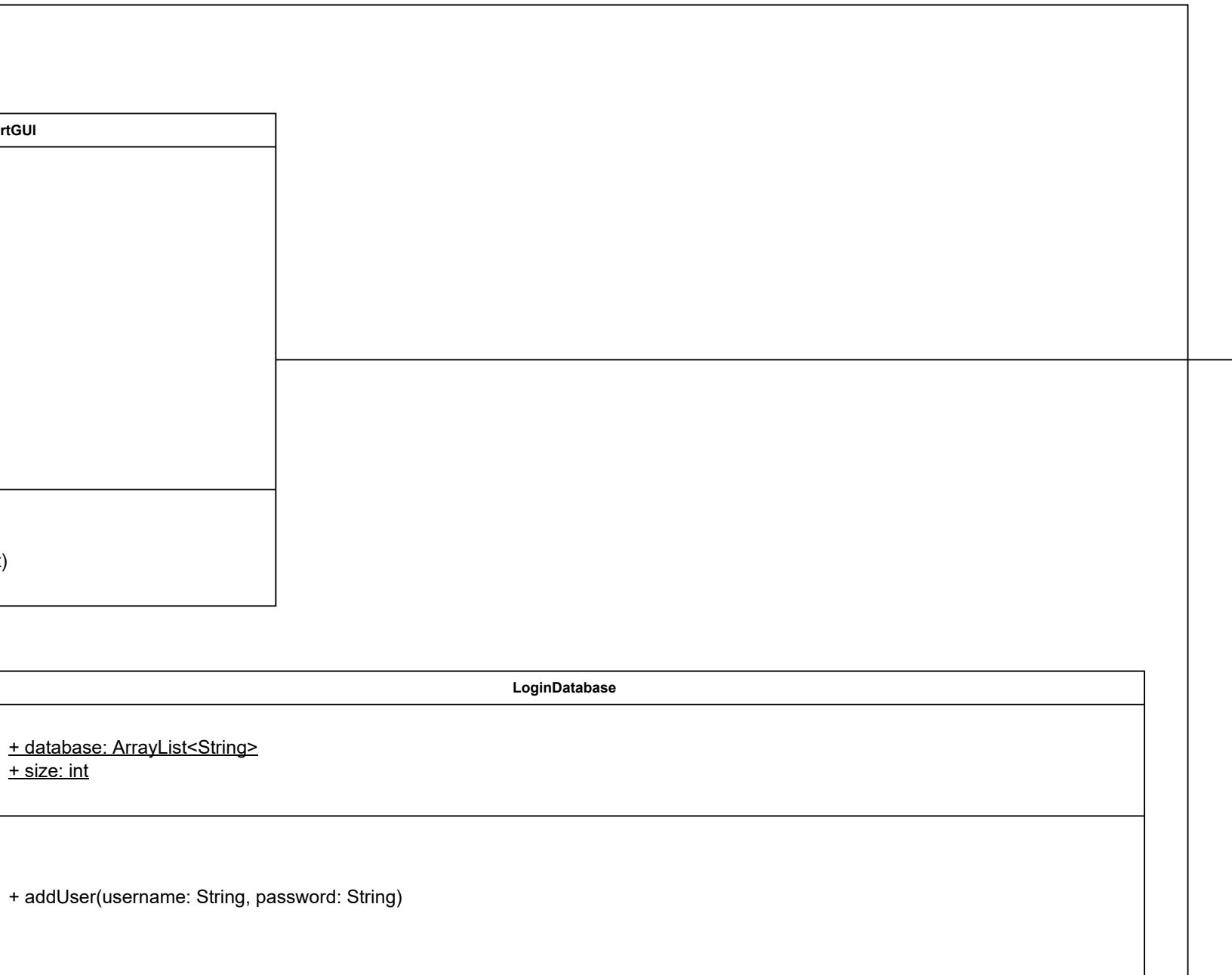


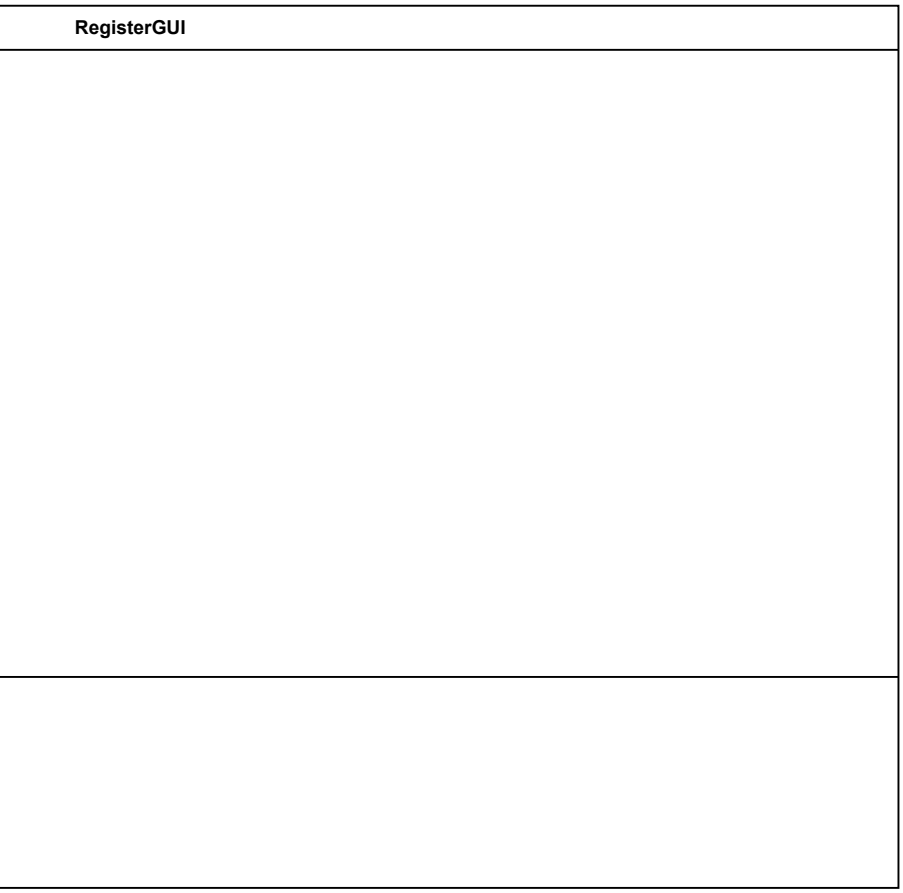

SearchCustomer
able
omeLabel: JLabel
MovieToCart: JLabel
eTitleText: JTextField
chByTitleButton: JButton
ess: JLabel
eTitle: JTextField
oCartButton: JButton
CartButton: JButton
ess2: JLabel
nHomeButton: JButton
eDisplayButton: JButton
l: JPanel
e: JFrame
e2: JFrame
e4: JFrame
ter: int
e_title: String
cted_movie: Movie
JLabel
ription: JLabel
se_date: JLabel
s: JLabel
tors: JLabel
gory: JLabel
: JLabel
ent: Container
ent2: Container
searches
chByTitle()
ovieByTitle(String title): Movie
ovieByCategory(categ: String): Movie
unds(id: int): boolean
ovieByID(id: int): Movie
elsAvailable(title: String): boolean
(args: String[])
uses
SuperAdminGUI

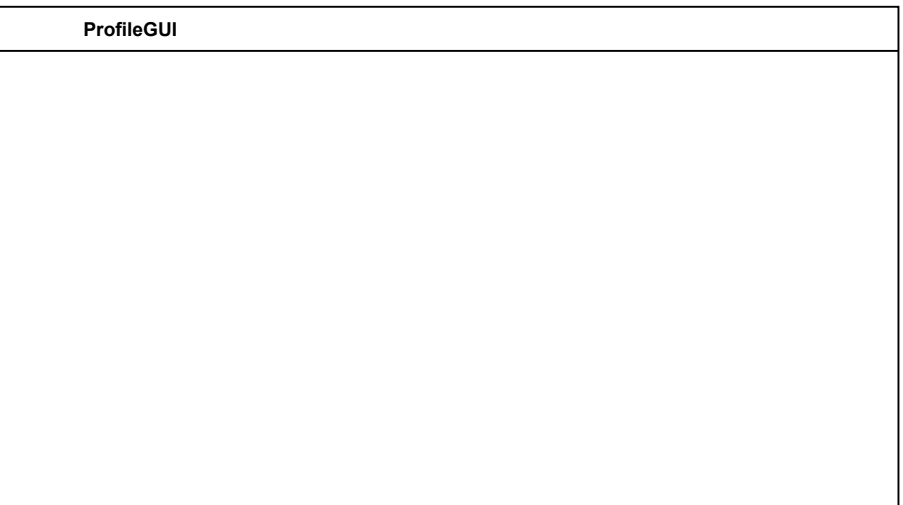

SystemAdminHome
+ welcomeLabel: JLabel
+ loyaltyPointsLabel: JLabel
+ searchButton: JButton
+ inventoryButton: JButton
+ signOutButton: JButton
+ addMovieButton: JButton
+ frame: JFrame
+ panel: JPanel
+ SystemAdminHome()
+ main(args: String[])
uses
Search
+ frame: JFrame
+ panel: JPanel
+ welcomeLabel: JLabel
+ byTitleButton: JButton
+ byCategoryButton: JButton
+ byAllButton: JButton
+ homeButton: JButton
+ Search()
Home
+ welcomeLabel: JLabel
+ loyaltyPointsLabel: JLabel
+ searchButton: JButton
+ cartButton: JButton
+ profileButton: JButton
+ signOutButton: JButton
+ success: JLabel
+ frame: JFrame
+ panel: JPanel

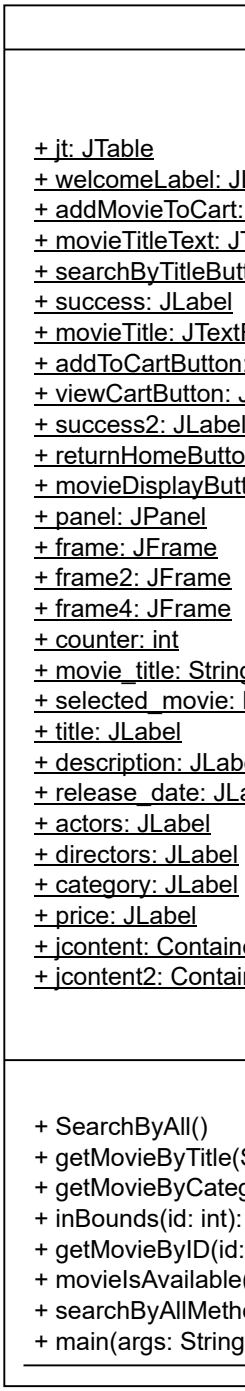

ViewCa
+ cartLabel: JLabel
+ lateFee: JLabel
+ cartPriceLabel: JLabel
+ deleteButton: JButton
+ addButton: JButton
+ placeOrder: JButton
+ homeButton: JButton
+ deleteText: JText
+ success: JLabel
+ comboBox: JComboBox
+ selected_movie: Movie
+ item: String
+ jcontent: Container
+ ViewCartGUI()
+ actionPerformed(e: ActionEvent
GUI
+ userLabel: JLabel
+ userText: JTextField
+ passwordLabel: JLabel
+ passwordText: JPasswordText
+ loginButton: JButton
+ loginSystemAdmin: JButton
+ registerButton: JButton
+ superAdminButton: JButton
+ success: JLabel
+ login_index: int
uses
uses
uses

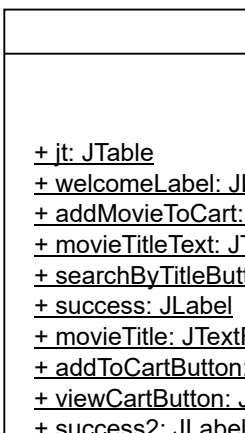

rtGUI
)
LoginDatabase
+ database: ArrayList<String>
+ size: int
+ addUser(username: String, password: String)

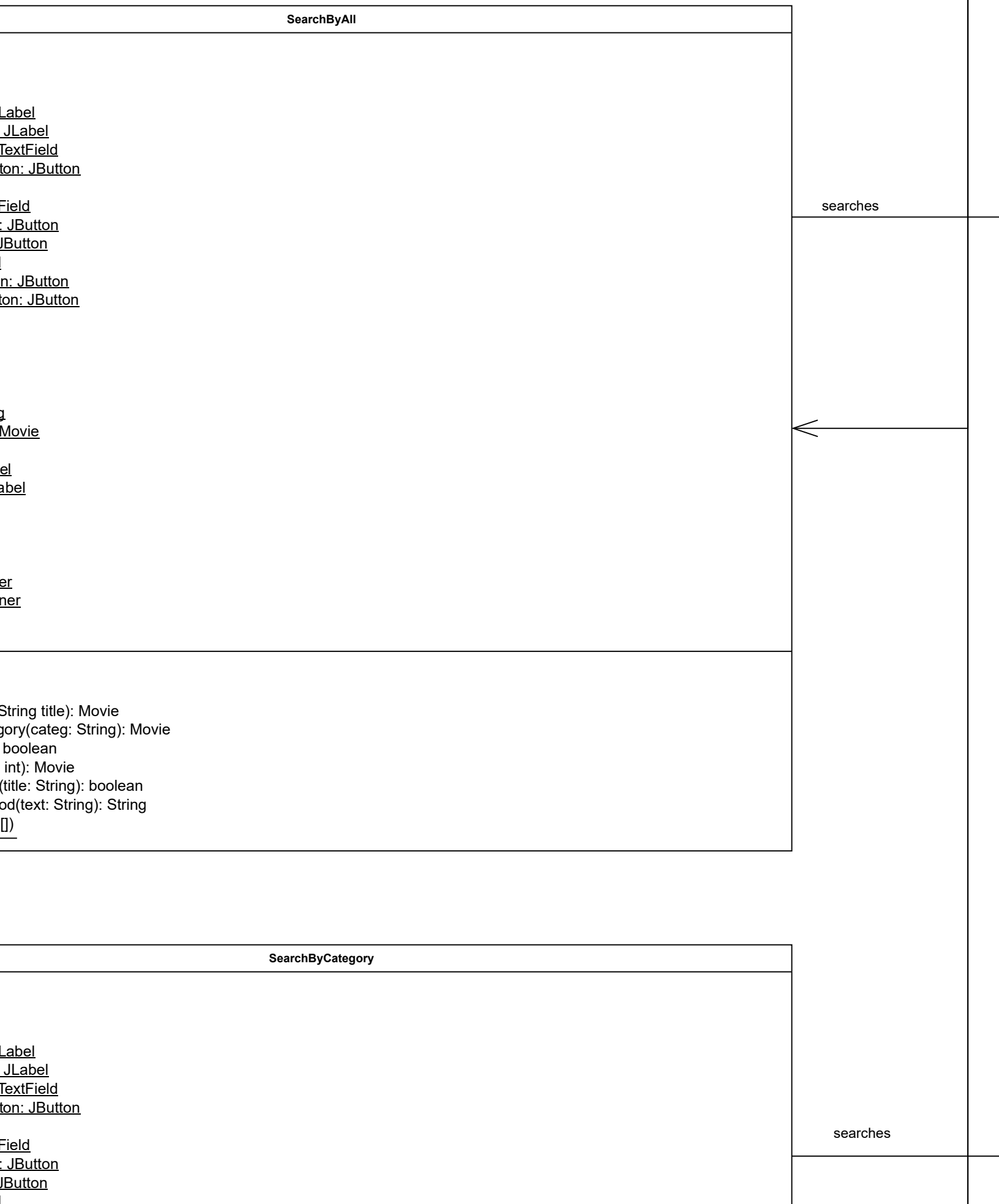
+ userLabel: JLabel
+ userText: JTextField
+ passwordLabel: JLabel
+ passwordText: JPasswordField
+ nameLabel: JLabel
+ nameText: JTextField
+ emailLabel: JLabel
+ emailText: JTextField
+ addressLabel: JLabel
+ addressText: JTextField
+ provinceLabel: JLabel
+ provinceText: JTextField
+ creditCardLabel: JLabel
+ creditCardText: JTextField
+ registerButton: JButton
+ homeButton: JButton
+ success: JLabel
+ frame: JFrame
+ panel: JPanel
+ RegisterGUI()
+ main(args: String[])
+ actionPerformed(e: ActionEvent)
+ userLabel: JLabel
+ userText: JTextField
+ passwordLabel: JLabel
+ passwordText: JPasswordField
+ nameLabel: JLabel
+ nameText: JTextField
+ emailLabel: JLabel
+ emailText: JTextField
+ addressLabel: JLabel
+ addressText: JTextField
+ provinceLabel: JLabel
+ provinceText: JTextField
+ creditCardLabel: JLabel


RegisterGUI


ProfileGUI


+ jt: JTable
+ welcomeLabel: JL
+ addMovieToCart:
+ movieTitleText: JT
+ searchByTitleButt
+ success: JLabel
+ movieTitle: JTextF
+ addToCartButton:
+ viewCartButton: J
+ success2: JLabel
+ returnHomeButto
+ movieDisplayButt
+ panel: JPanel
+ frame: JFrame
+ frame2: JFrame
+ frame4: JFrame
+ counter: int
+ movie_title: String
+ selected_movie: I
+ title: JLabel
+ description: JLabe
+ release_date: JLa
+ actors: JLabel
+ directors: JLabel
+ category: JLabel
+ price: JLabel
+ jcontent: Contain
+ jcontent2: Contai
+ SearchByAll()
+ getMovieByTitle(S
+ getMovieByCateg
+ inBounds(id: int):
+ getMovieByID(id:
+ movieIsAvailable(
+ searchByAllMetho
+ main(args: String


+ jt: JTable
+ welcomeLabel: JL
+ addMovieToCart:
+ movieTitleText: JT
+ searchByTitleButt
+ success: JLabel
+ movieTitle: JTextF
+ addToCartButton:
+ viewCartButton: J
+ success2: JLabel


SearchByAll
Label
JLabel
TextField
ton: JButton
Field
JButton
JButton
n: JButton
ton: JButton
Movie
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abel
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ner
String title): Movie
gory(categ: String): Movie
boolean
int): Movie
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od(text: String): String
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searches
SearchByCategory
Label
JLabel
TextField
ton: JButton
Field
JButton
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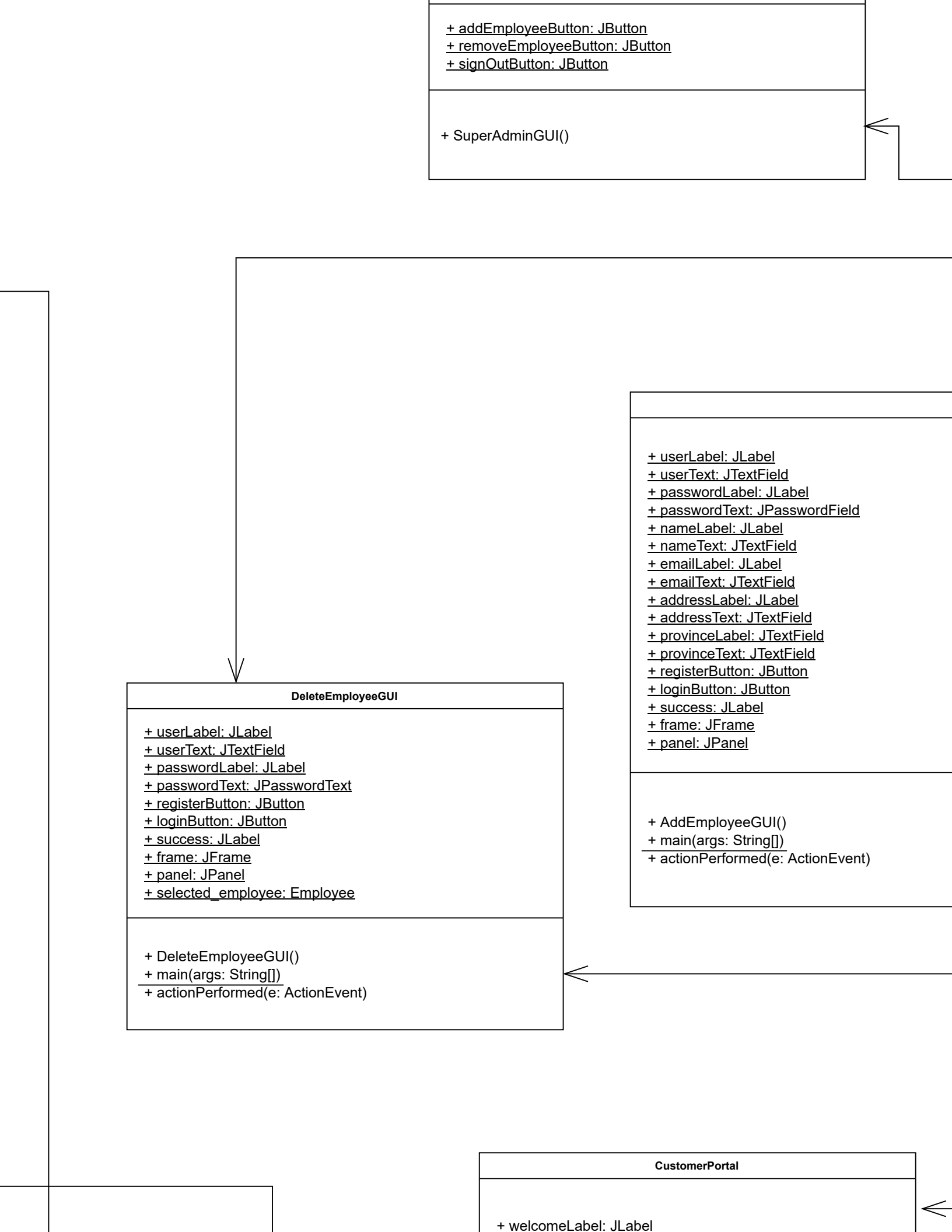
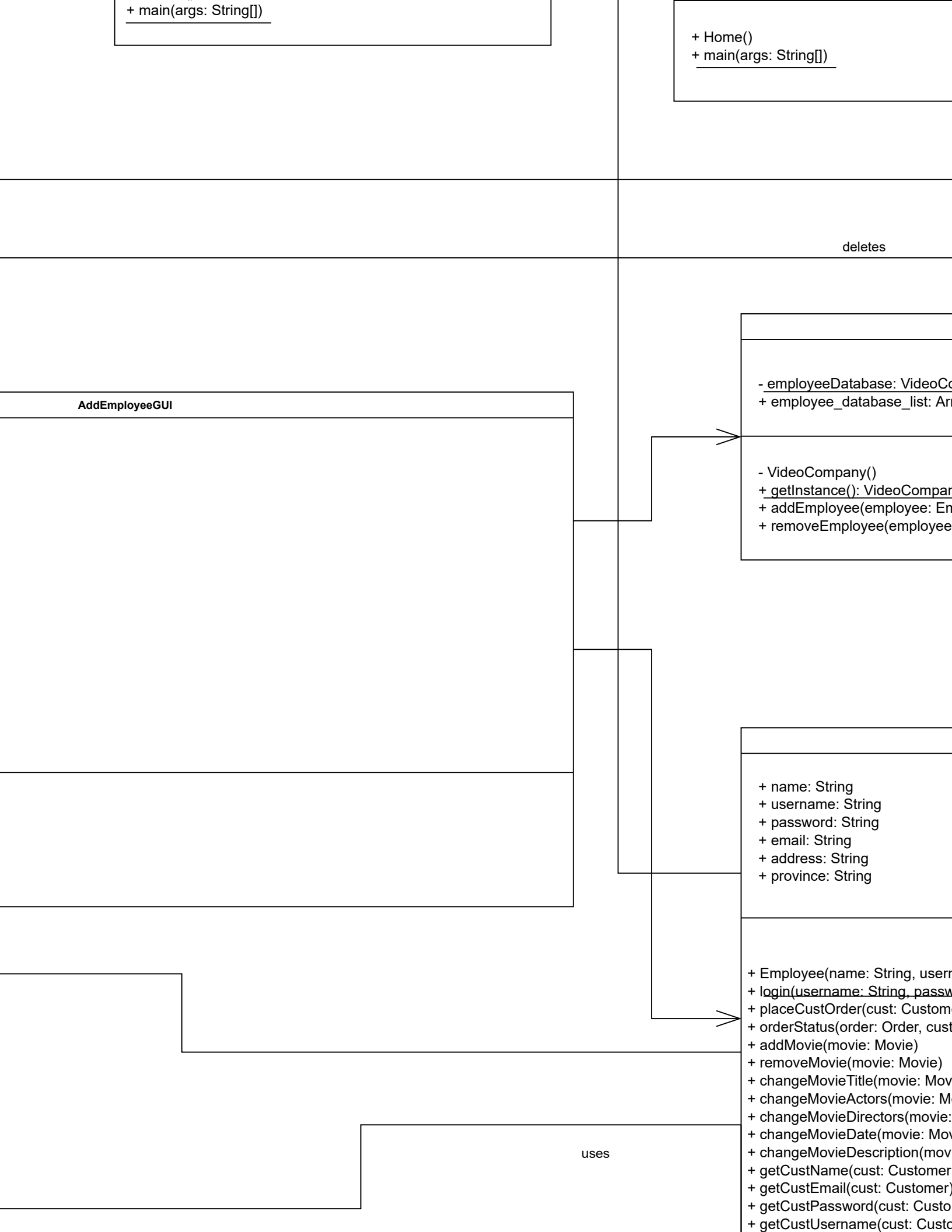
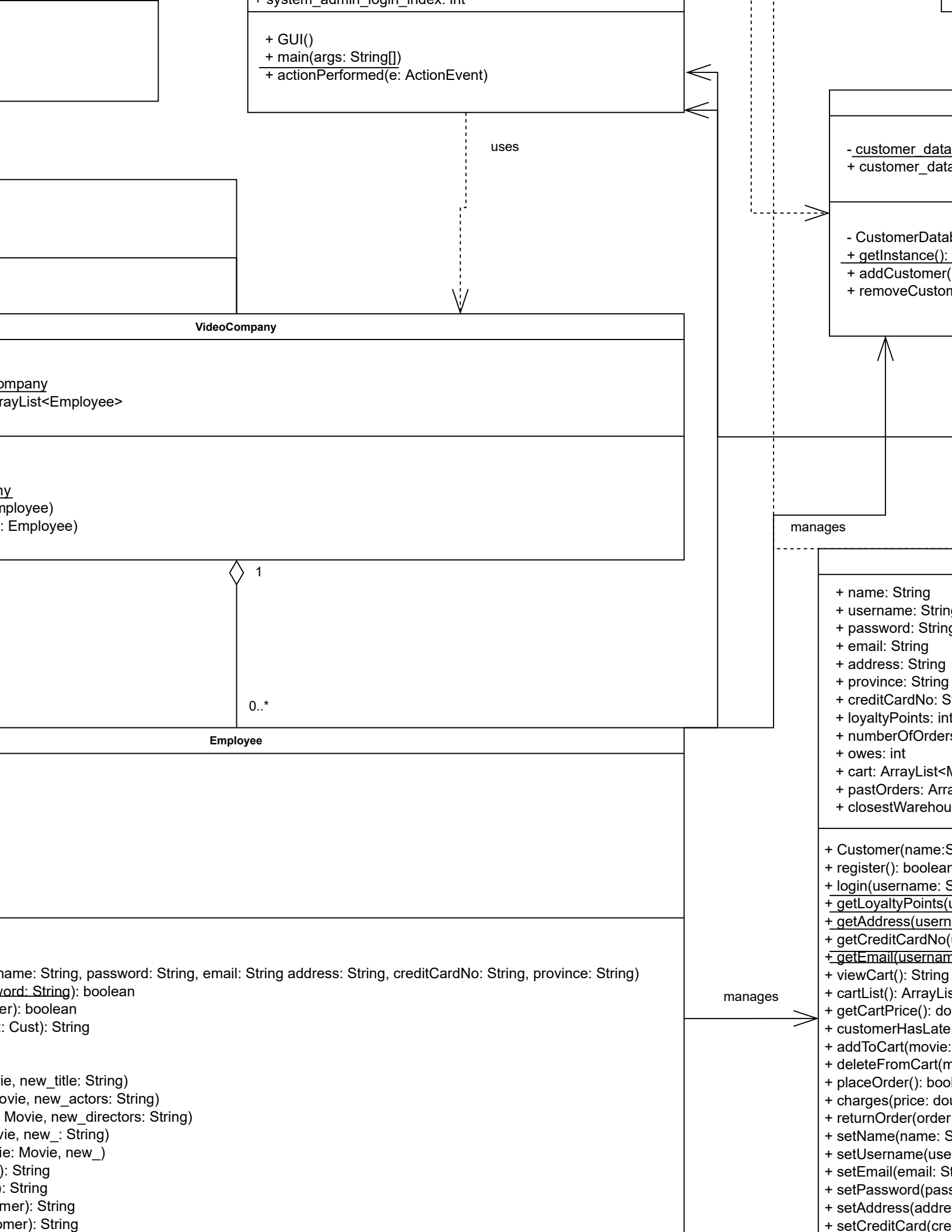
searches


+ addEmployeeButton: JButton
+ removeEmployeeButton: JButton
+ signOutButton: JButton
+ SuperAdminGUI()
+ userLabel: JLabel
+ userText: JTextField
+ passwordLabel: JLabel
+ passwordText: JPasswordField
+ nameLabel: JLabel
+ nameText: JTextField
+ emailLabel: JLabel
+ emailText: JTextField
+ addressLabel: JLabel
+ addressText: JTextField
+ provinceLabel: JTextField
+ provinceText: JTextField
+ registerButton: JButton
+ loginButton: JButton
+ success: JLabel
+ frame: JFrame
+ panel: JPanel
+ AddEmployeeGUI()
+ main(args: String[])
+ actionPerformed(e: ActionEvent)
DeleteEmployeeGUI
+ userLabel: JLabel
+ userText: JTextField
+ passwordLabel: JLabel
+ passwordText: JPasswordText
+ registerButton: JButton
+ loginButton: JButton
+ success: JLabel
+ frame: JFrame
+ panel: JPanel
+ selected_employee: Employee
+ DeleteEmployeeGUI()
+ main(args: String[])
+ actionPerformed(e: ActionEvent)
CustomerPortal
+ welcomeLabel: JLabel


+ main(args: String[])
+ Home()
+ main(args: String[])
deletes
AddEmployeeGUI
- employeeDatabase: VideoCo
+ employee_database_list: Ar
- VideoCompany()
+ getInstance(): VideoCompar
+ addEmployee(employee: Em
+ removeEmployee(employee
+ name: String
+ username: String
+ password: String
+ email: String
+ address: String
+ province: String
+ Employee(name: String, usern
+ login(username: String, passw
+ placeCustOrder(cust: Custom
+ orderStatus(order: Order, cust
+ addMovie(movie: Movie)
+ removeMovie(movie: Movie)
+ changeMovieTitle(movie: Mov
+ changeMovieActors(movie: M
+ changeMovieDirectors(movie:
+ changeMovieDate(movie: Mov
+ changeMovieDescription(mov
+ getCustName(cust: Customer
+ getCustEmail(cust: Customer)
+ getCustPassword(cust: Custo
+ getCustUsername(cust: Custo
uses


+ system_admin_login_index: int
+ GUI()
+ main(args: String[])
+ actionPerformed(e: ActionEvent)
uses
- customer_data
+ customer_data
- CustomerDatab
+ getInstance():
+ addCustomer(
+ removeCustom
VideoCompany
ompany
rayList<Employee>
ny
mployee)
: Employee)
manages
1
0..*
Employee
+ name: String
+ username: String
+ password: String
+ email: String
+ address: String
+ province: String
+ creditCardNo: S
+ loyaltyPoints: int
+ numberOfOrders
+ owes: int
+ cart: ArrayList<M
+ pastOrders: Arra
+ closestWarehou
+ Customer(name:S
+ register(): boolean
+ login(username: S
+ getLoyaltyPoints(u
+ getAddress(usern
+ getCreditCardNo(
+ getEmail(usernam
+ viewCart(): String
+ cartList(): ArrayLis
+ getCartPrice(): do
+ customerHasLate
+ addToCart(movie:
+ deleteFromCart(m
+ placeOrder(): bool
+ charges(price: dou
+ returnOrder(order
+ setName(name: S
+ setUsername(use
+ setEmail(email: St
+ setPassword(pass
+ setAddress(addre
+ setCreditCard(cre
name: String, password: String, email: String address: String, creditCardNo: String, province: String)
word: String): boolean
er): boolean
: Cust): String
manages
ie, new_title: String)
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vie, new_: String)
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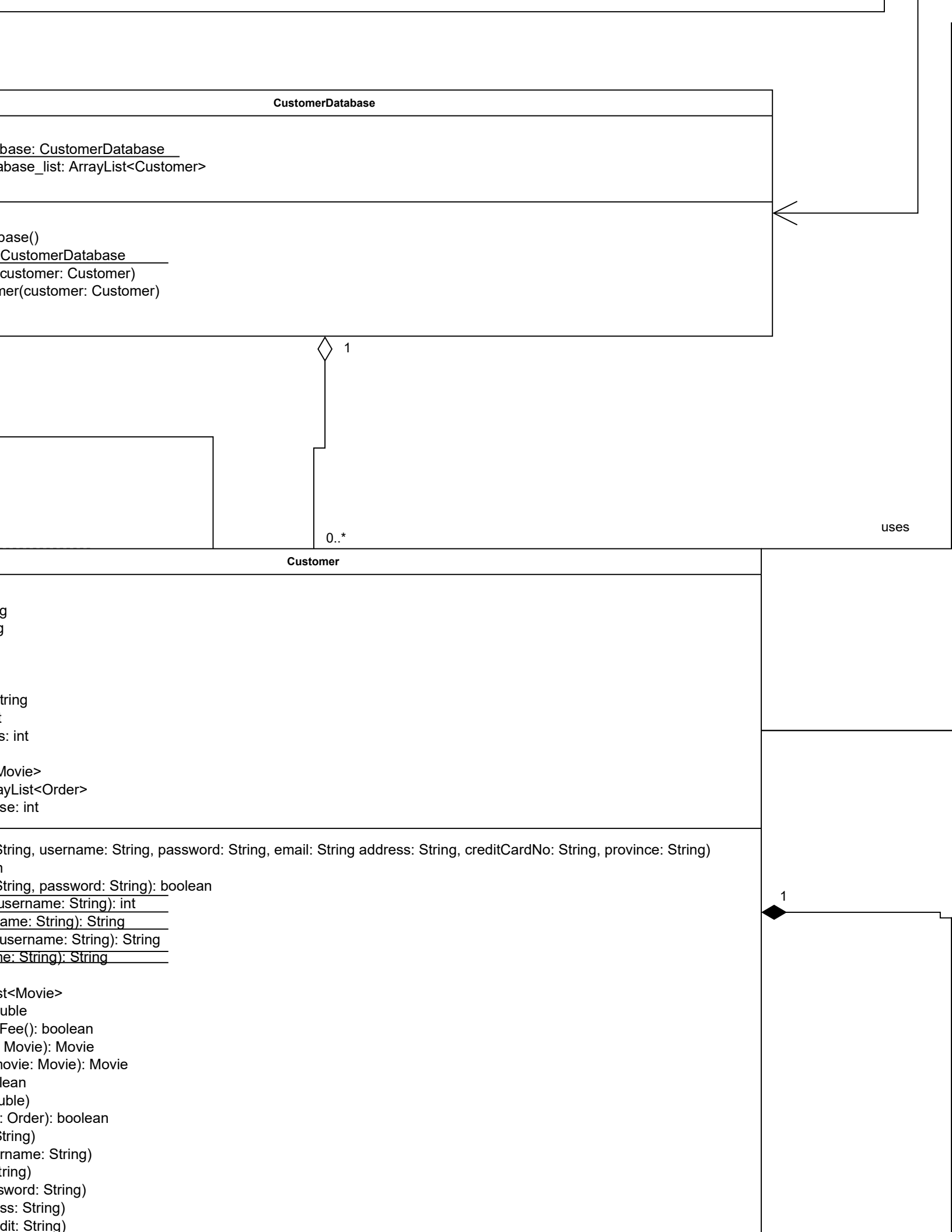
CustomerDatabase
base: CustomerDatabase
abase_list: ArrayList<Customer>
base()
CustomerDatabase
customer: Customer)
mer(customer: Customer)
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uses
Customer
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tring
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s: int
Movie>
ayList<Order>
se: int
String, username: String, password: String, email: String address: String, creditCardNo: String, province: String)
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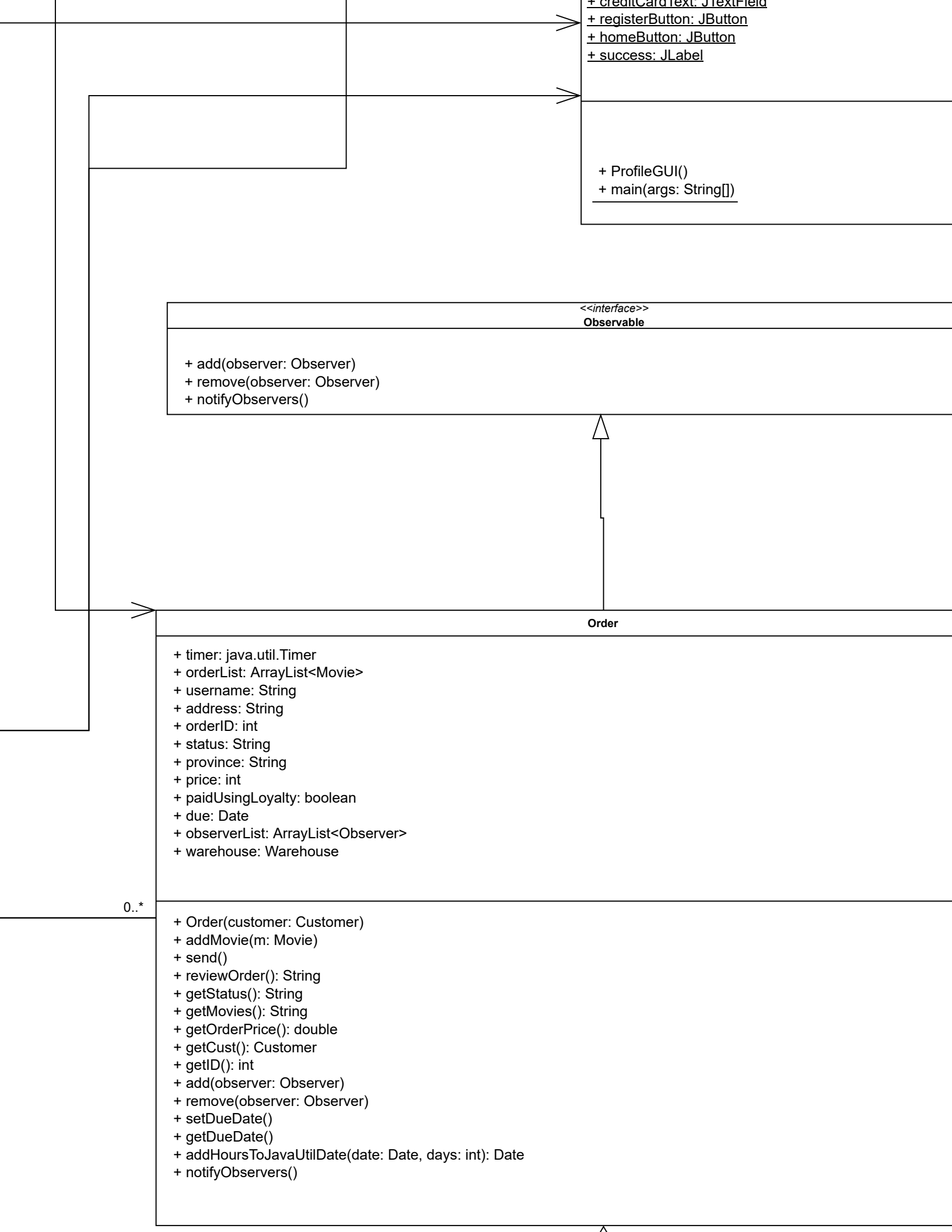
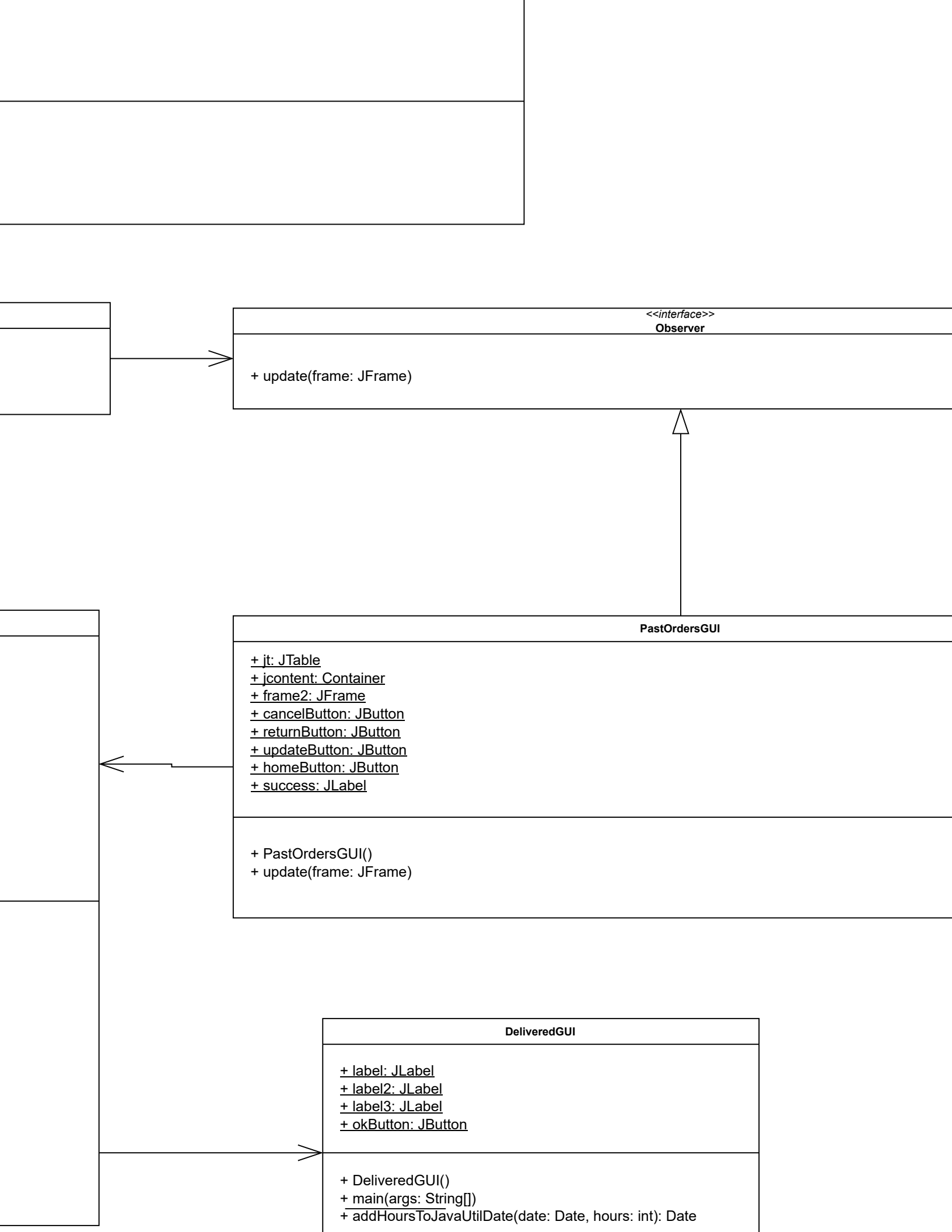
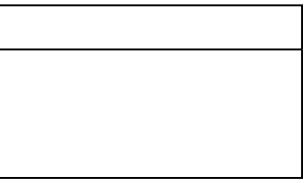
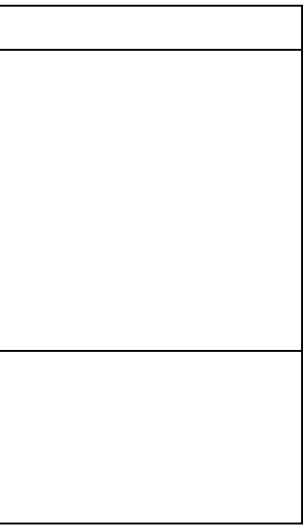
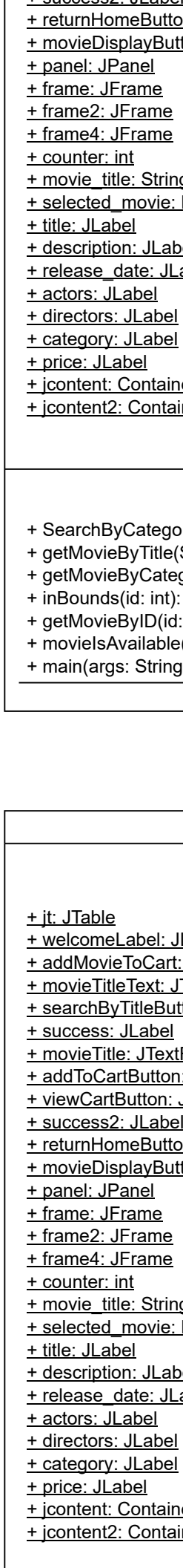

+ creditCardText: JTextField
+ registerButton: JButton
+ homeButton: JButton
+ success: JLabel
+ ProfileGUI()
+ main(args: String[])
<<interface>>
Observable
+ add(observer: Observer)
+ remove(observer: Observer)
+ notifyObservers()
Order
+ timer: java.util.Timer
+ orderList: ArrayList<Movie>
+ username: String
+ address: String
+ orderID: int
+ status: String
+ province: String
+ price: int
+ paidUsingLoyalty: boolean
+ due: Date
+ observerList: ArrayList<Observer>
+ warehouse: Warehouse
0..*
+ Order(customer: Customer)
+ addMovie(m: Movie)
+ send()
+ reviewOrder(): String
+ getStatus(): String
+ getMovies(): String
+ getOrderPrice(): double
+ getCust(): Customer
+ getID(): int
+ add(observer: Observer)
+ remove(observer: Observer)
+ setDueDate()
+ getDueDate()
+ addHoursToJavaUtilDate(date: Date, days: int): Date
+ notifyObservers()


<<interface>>
Observer
+ update(frame: JFrame)
PastOrdersGUI
+ jt: JTable
+ jcontent: Container
+ frame2: JFrame
+ cancelButton: JButton
+ returnButton: JButton
+ updateButton: JButton
+ homeButton: JButton
+ success: JLabel
+ PastOrdersGUI()
+ update(frame: JFrame)
DeliveredGUI
+ label: JLabel
+ label2: JLabel
+ label3: JLabel
+ okButton: JButton
+ DeliveredGUI()
+ main(args: String[])
+ addHoursToJavaUtilDate(date: Date, hours: int): Date






+ returnHomeButto
+ movieDisplayButt
+ panel: JPanel
+ frame: JFrame
+ frame2: JFrame
+ frame4: JFrame
+ counter: int
+ movie_title: String
+ selected_movie:
+ title: JLabel
+ description: JLab
+ release_date: JLa
+ actors: JLabel
+ directors: JLabel
+ category: JLabel
+ price: JLabel
+ jcontent: Contain
+ jcontent2: Contai
+ SearchByCatego
+ getMovieByTitle(
+ getMovieByCateg
+ inBounds(id: int):
+ getMovieByID(id:
+ movieIsAvailable
+ main(args: String
+ jt: JTable
+ welcomeLabel: J
+ addMovieToCart:
+ movieTitleText: J
+ searchByTitleBut
+ success: JLabel
+ movieTitle: JTextF
+ addToCartButton
+ viewCartButton:
+ success2: JLabel
+ returnHomeButto
+ movieDisplayButt
+ panel: JPanel
+ frame: JFrame
+ frame2: JFrame
+ frame4: JFrame
+ counter: int
+ movie_title: String
+ selected_movie:
+ title: JLabel
+ description: JLab
+ release_date: JLa
+ actors: JLabel
+ directors: JLabel
+ category: JLabel
+ price: JLabel
+ jcontent: Contain
+ jcontent2: Contai

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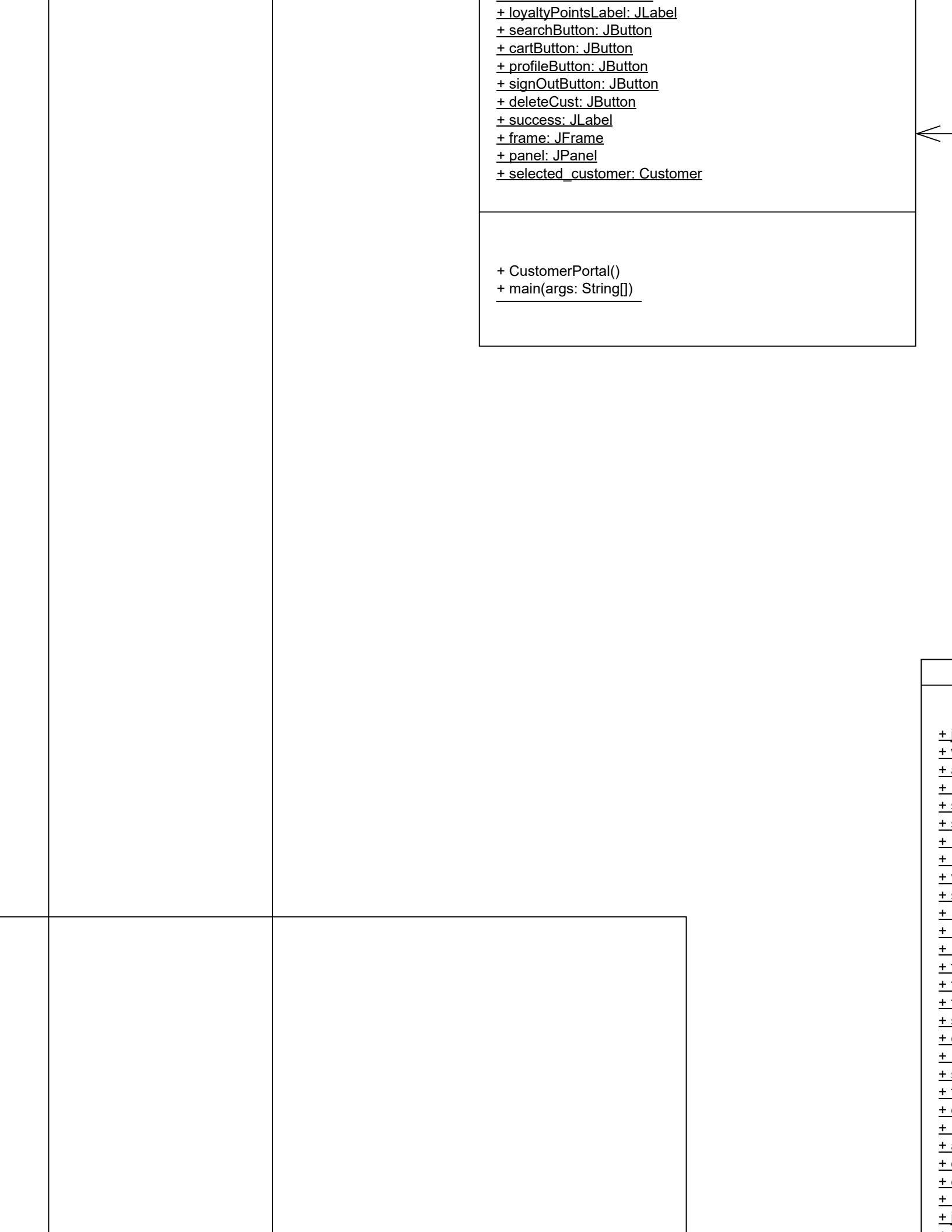

+ loyaltyPointsLabel: JLabel
+ searchButton: JButton
+ cartButton: JButton
+ profileButton: JButton
+ signOutButton: JButton
+ deleteCust: JButton
+ success: JLabel
+ frame: JFrame
+ panel: JPanel
+ selected_customer: Customer
+ CustomerPortal()
+ main(args: String[])

+ getCustOrder(cust: Customer)
+ removeCustomer(cust: Custor

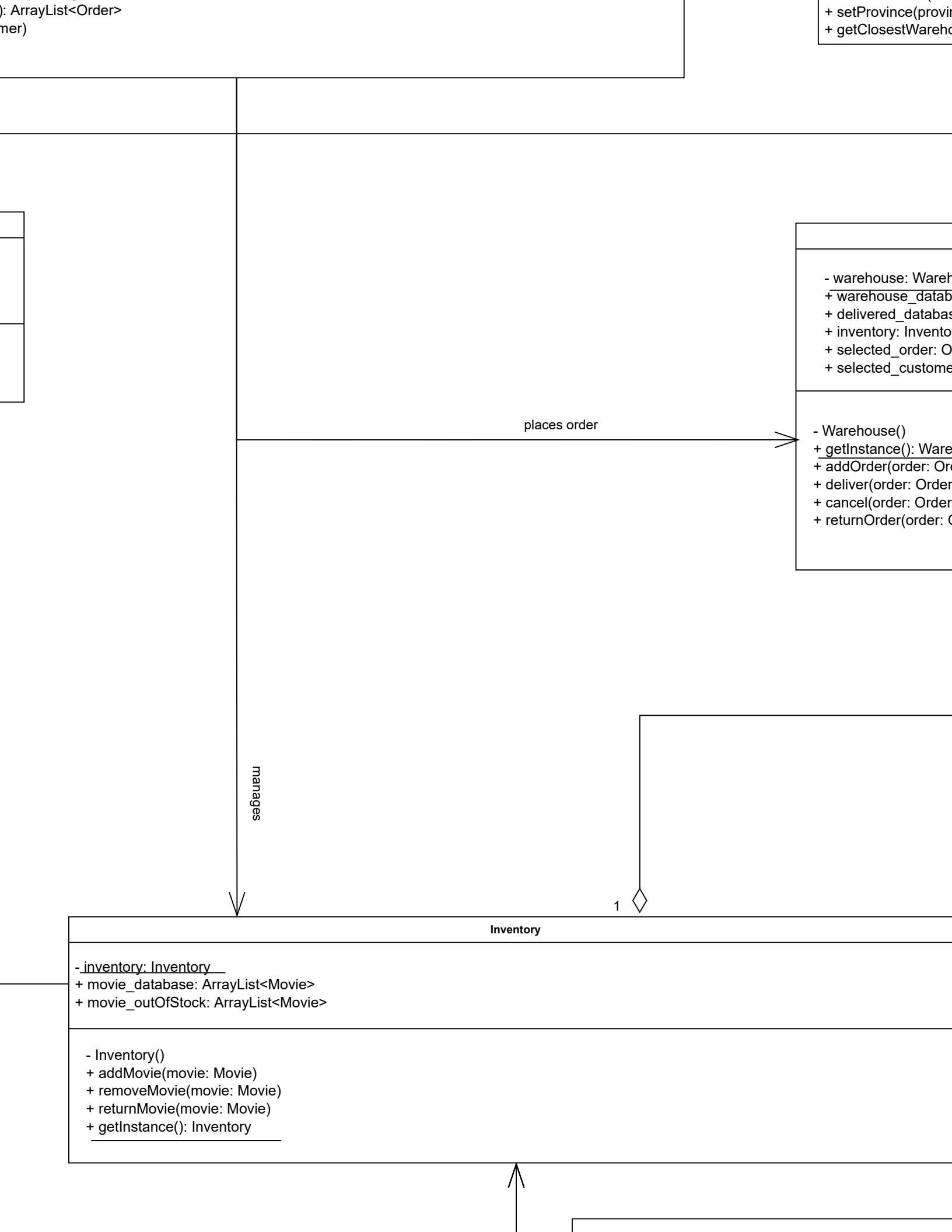
CustDeleted

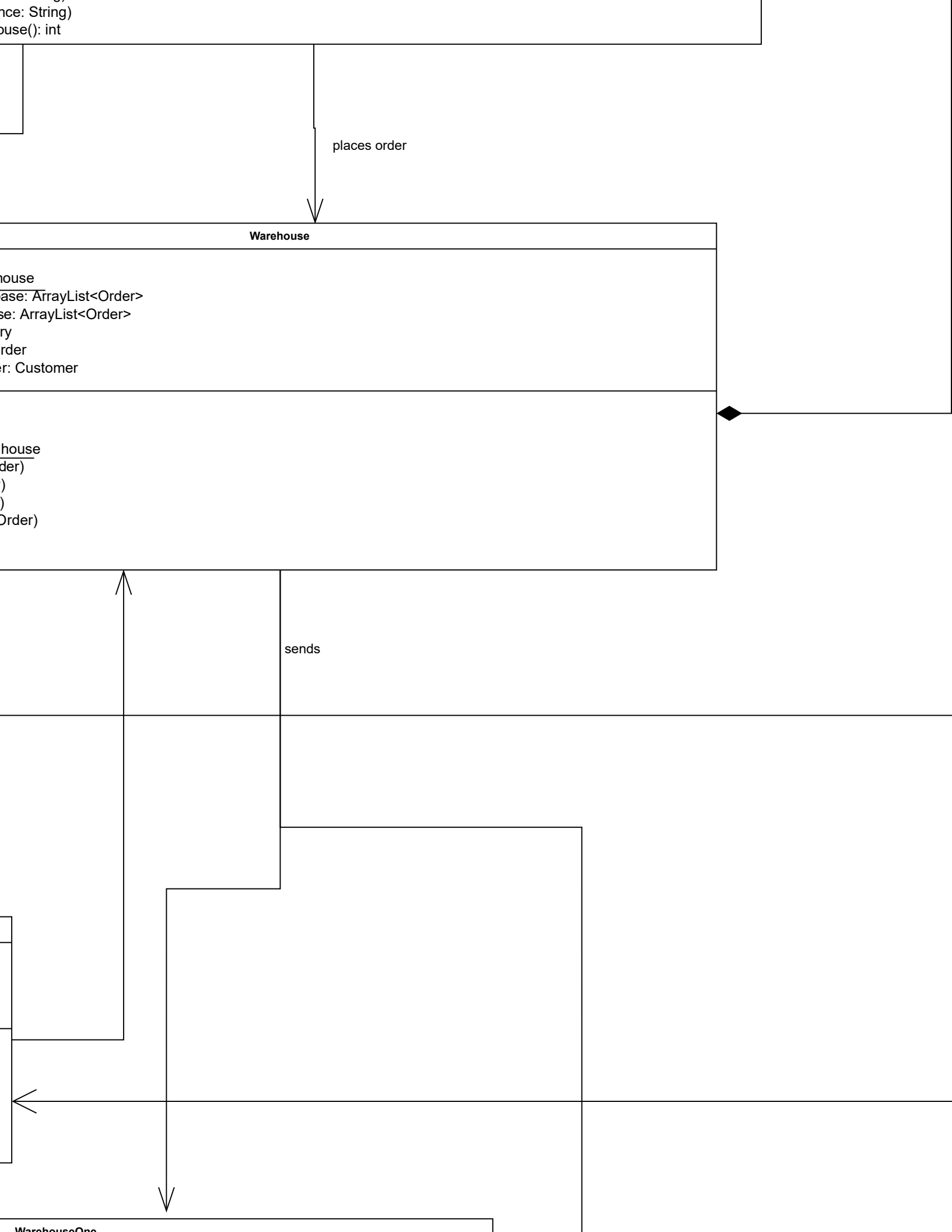
+ label: JLabel
+ label2: JLabel
+ okButton: JButton

+ CustDeleted
+ main(args: String[])

InventoryGUI

jt: JTable
welcomeLabel: JLabel
addMovieToCart: JLabel
movieTitleText: JTextField
searchByTitleButton: JButton
success: JLabel
movieTitle: JTextField
manageButton: JButton
viewCartButton: JButton
success2: JLabel
returnHomeButton: JButton
movieDisplayButton: JButton
panel: JPanel
frame: JFrame
frame2: JFrame
frame4: JFrame
selected_title: String
counter: int
movie_title: String
selected_movie: Movie
title: JLabel
description: JLabel
release_date: JLabel
actors: JLabel
directors: JLabel
category: JLabel
price: JLabel
jcontent: Container


): ArrayList<Order>
mer)
+ setProvince(provin
+ getClosestWareho
- warehouse: Wareh
+ warehouse_datab
+ delivered_databas
+ inventory: Invento
+ selected_order: O
+ selected_custome
places order
- Warehouse()
+ getInstance(): Ware
+ addOrder(order: Or
+ deliver(order: Order
+ cancel(order: Order
+ returnOrder(order: C
manages
1
Inventory
- inventory: Inventory
+ movie_database: ArrayList<Movie>
+ movie_outOfStock: ArrayList<Movie>
- Inventory()
+ addMovie(movie: Movie)
+ removeMovie(movie: Movie)
+ returnMovie(movie: Movie)
+ getInstance(): Inventory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ase: ArrayList<Order>
se: ArrayList<Order>
ry
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r: Customer
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Order)
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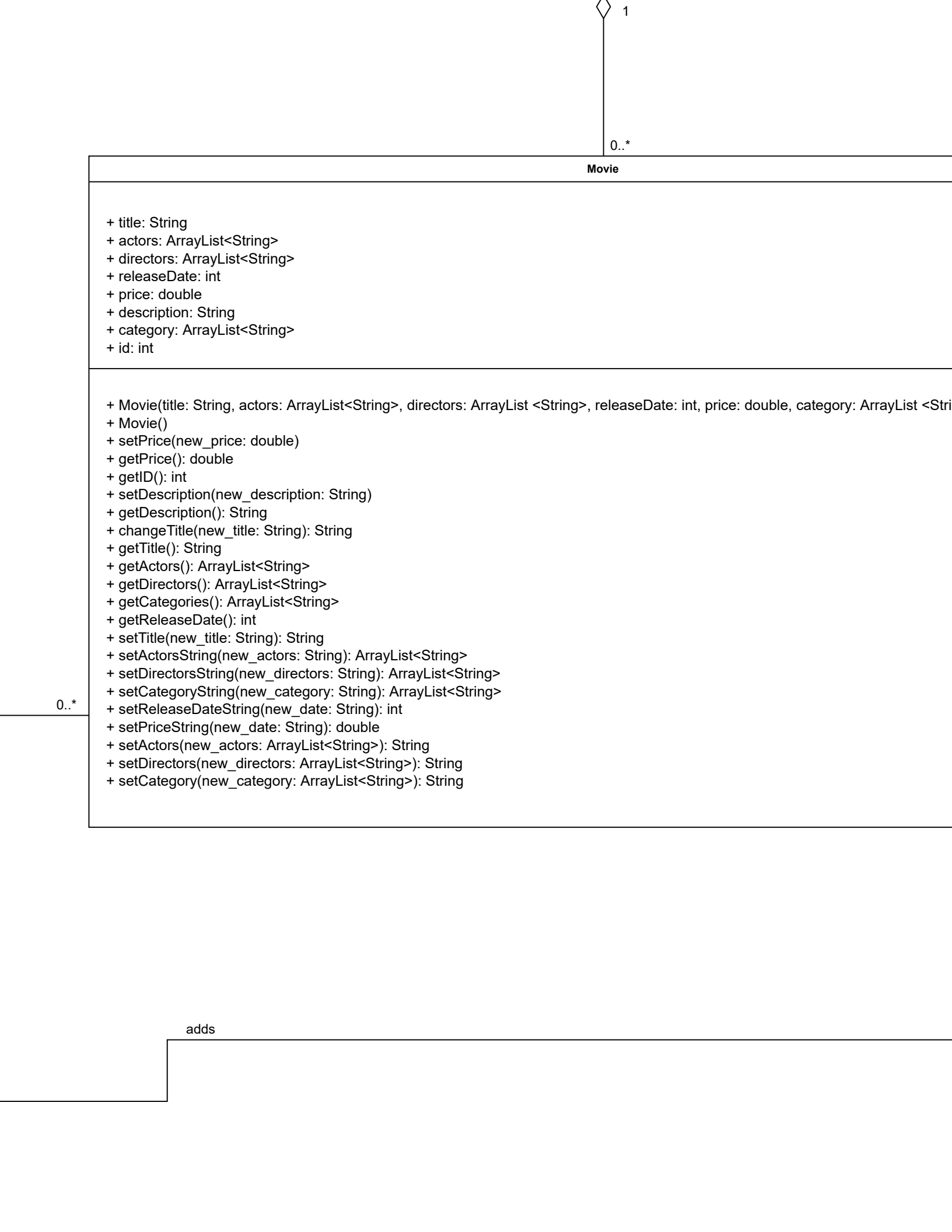

1
0..*
Movie
+ title: String
+ actors: ArrayList<String>
+ directors: ArrayList<String>
+ releaseDate: int
+ price: double
+ description: String
+ category: ArrayList<String>
+ id: int
+ Movie(title: String, actors: ArrayList<String>, directors: ArrayList <String>, releaseDate: int, price: double, category: ArrayList <Stri
+ Movie()
+ setPrice(new_price: double)
+ getPrice(): double
+ getID(): int
+ setDescription(new_description: String)
+ getDescription(): String
+ changeTitle(new_title: String): String
+ getTitle(): String
+ getActors(): ArrayList<String>
+ getDirectors(): ArrayList<String>
+ getCategories(): ArrayList<String>
+ getReleaseDate(): int
+ setTitle(new_title: String): String
+ setActorsString(new_actors: String): ArrayList<String>
+ setDirectorsString(new_directors: String): ArrayList<String>
+ setCategoryString(new_category: String): ArrayList<String>
+ setReleaseDateString(new_date: String): int
+ setPriceString(new_date: String): double
+ setActors(new_actors: ArrayList<String>): String
+ setDirectors(new_directors: ArrayList<String>): String
+ setCategory(new_category: ArrayList<String>): String
0..*
adds

ng>, id: int)

AddMovieGUI

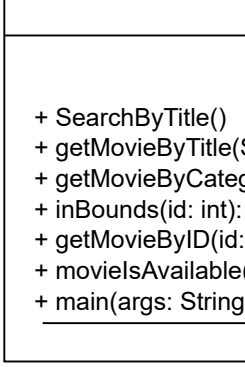
+ titleLabel: JLabel
+ titleText: JTextField
+ actorsLabel: JLabel
+ actorsText: JTextField
+ directorLabel: JLabel
+ directorText: JTextField
+ releaseDateLabel: JLabel
+ releaseDateText: JTextField
+ priceLabel: JLabel
+ priceText: JTextField
+ categoryLabel: JTextField
+ categoryText: JTextField
+ idLabel: JTextField
+ idText: JTextField
+ deleteButton: JButton
+ registerButton: JButton
+ homeButton: JButton
+ success: JLabel
+ frame: JFrame
+ panel: JPanel
+ item: String
+ wasDeleted: boolean

+ AddMovieGUI()
+ getArrayFromString(str: String): ArrayList<String>
+ main(args: String[])

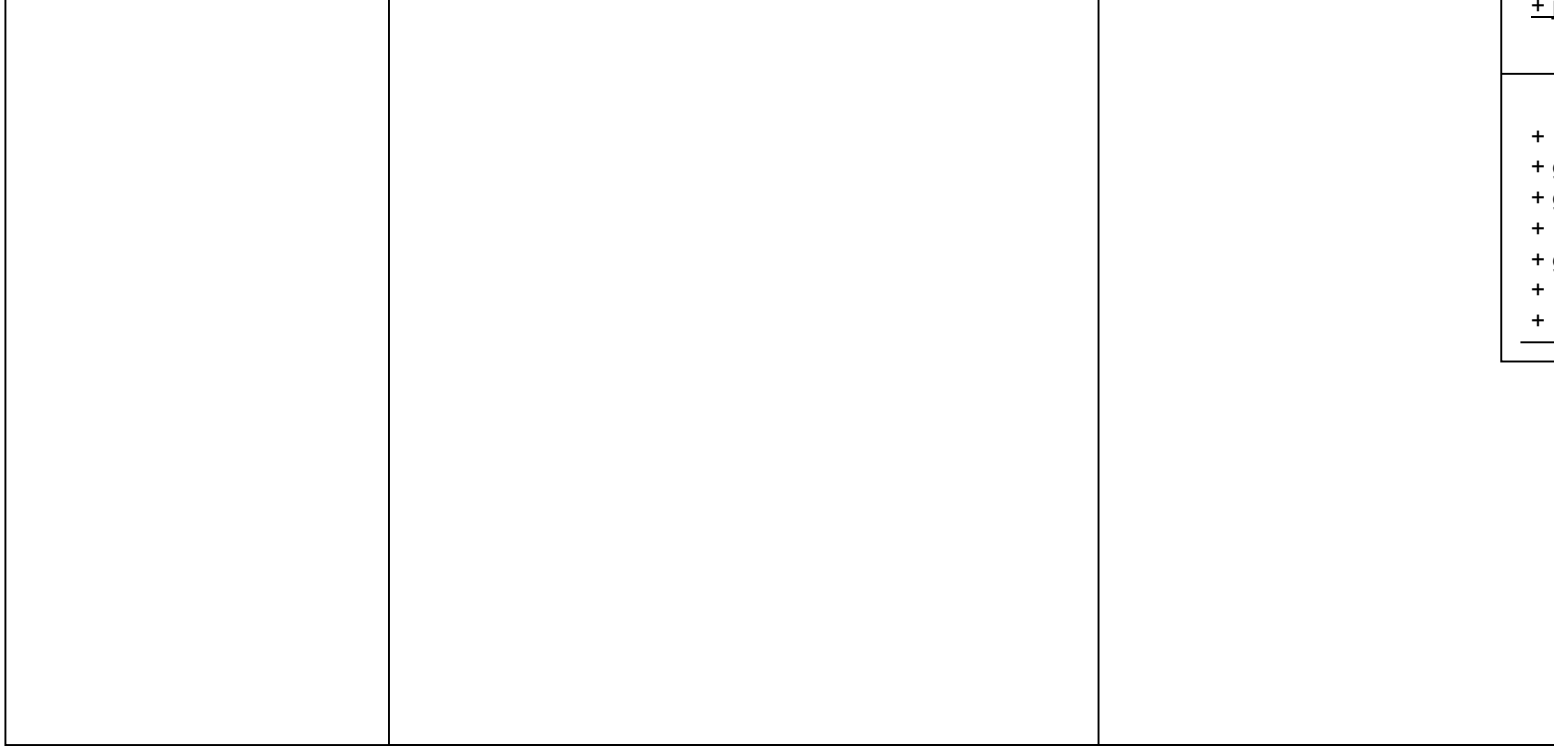
edits

MovieGUI

+ titleLabel: JLabel
+ titleText: JTextField
+ actorsLabel: JLabel
+ actorsText: JTextField
+ directorLabel: JLabel
+ directorText: JTextField
+ releaseDateLabel: JLabel
+ releaseDateText: JTextField
+ priceLabel: JLabel
+ priceText: JTextField
+ categoryLabel: JTextField
+ categoryText: JTextField
+ deleteButton: JButton
+ registerButton: JButton
+ homeButton: JButton
+ success: JLabel
+ selected_movie: Movie

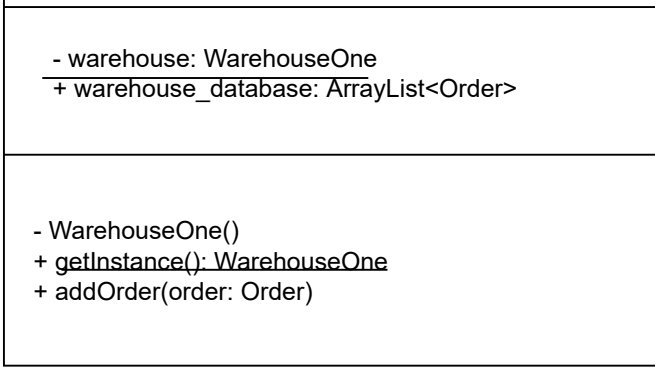

+ SearchByTitle()
+ getMovieByTitle(S
+ getMovieByCateg
+ inBounds(id: int):
+ getMovieByID(id:
+ movieIsAvailable(
+ main(args: String

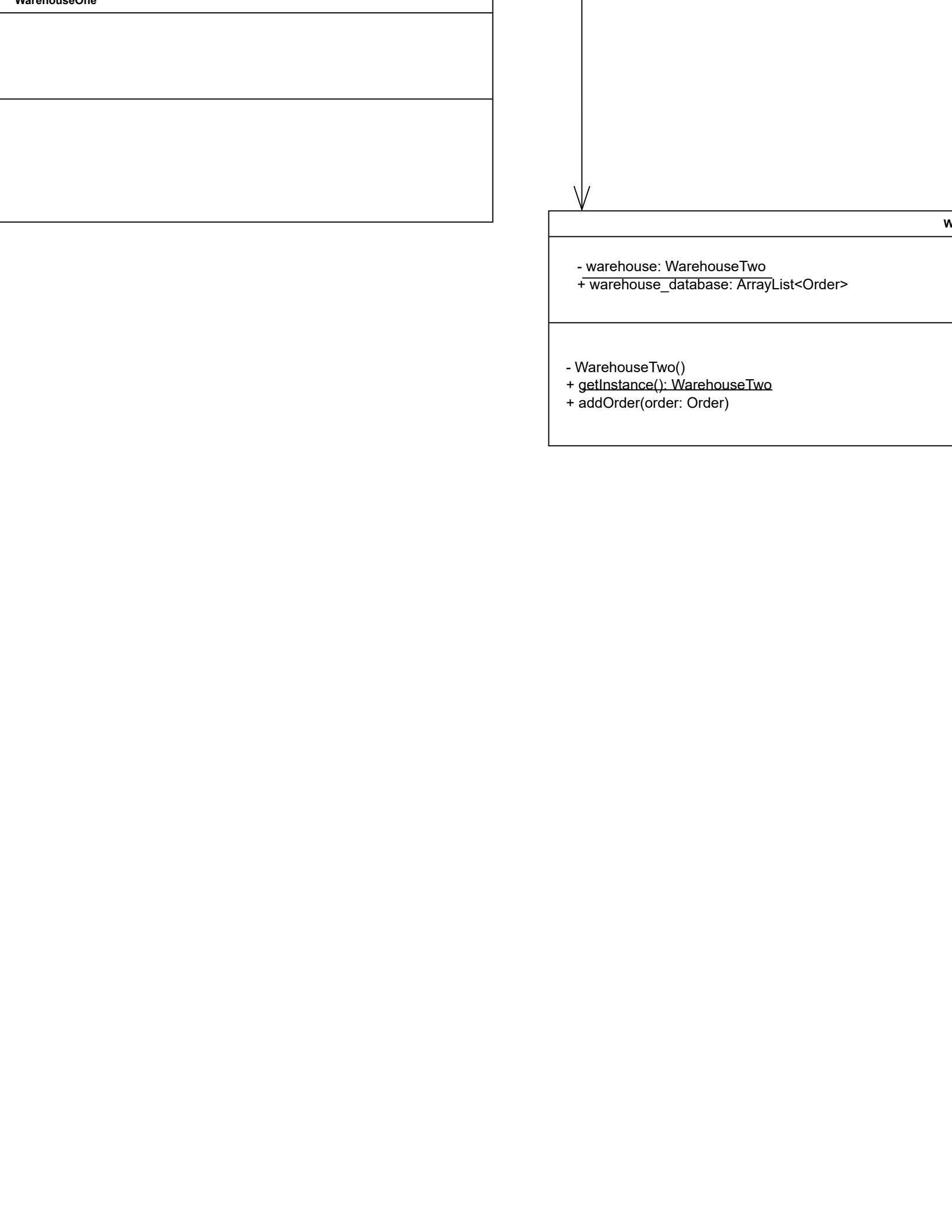
String title): Movie
gory(categ: String): Movie
boolean
int): Movie
(title: String): boolean
[])



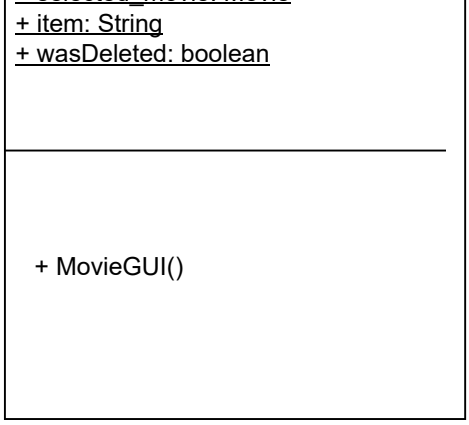
jcontent2: Container

InventoryGUI()
getMovieByTitle(String title): Movie
getMovieByCategory(categ: String): Movie
inBounds(id: int): boolean
getMovieByID(id: int): Movie
movieIsAvailable(title: String): boolean
main(args: String[])


- warehouse: WarehouseOne
+ warehouse_database: ArrayList<Order>
- WarehouseOne()
+ getInstance(): WarehouseOne
+ addOrder(order: Order)


WarehouseOne
W
- warehouse: WarehouseTwo
+ warehouse_database: ArrayList<Order>
- WarehouseTwo()
+ getInstance(): WarehouseTwo
+ addOrder(order: Order)

WarehouseTwo


+ item: String
+ wasDeleted: boolean
+ MovieGUI()