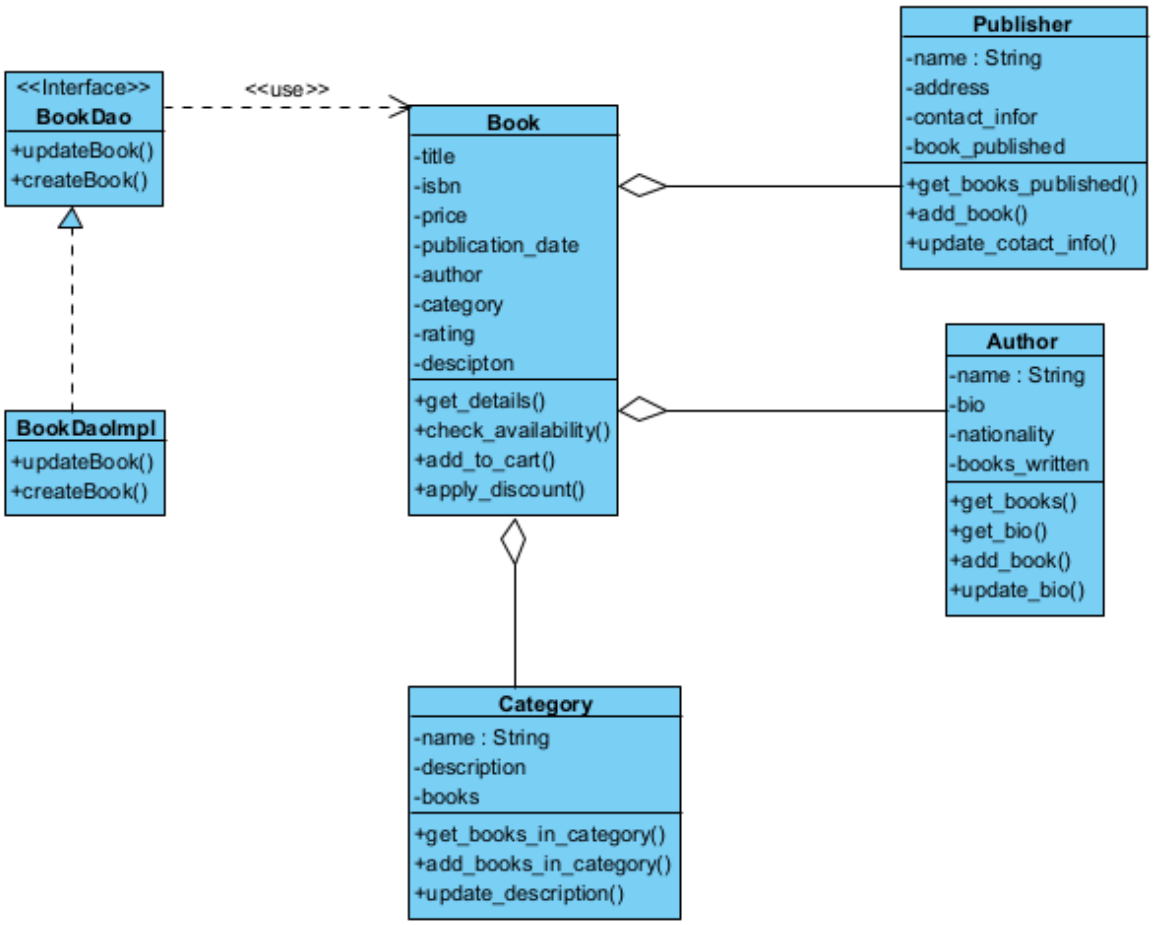
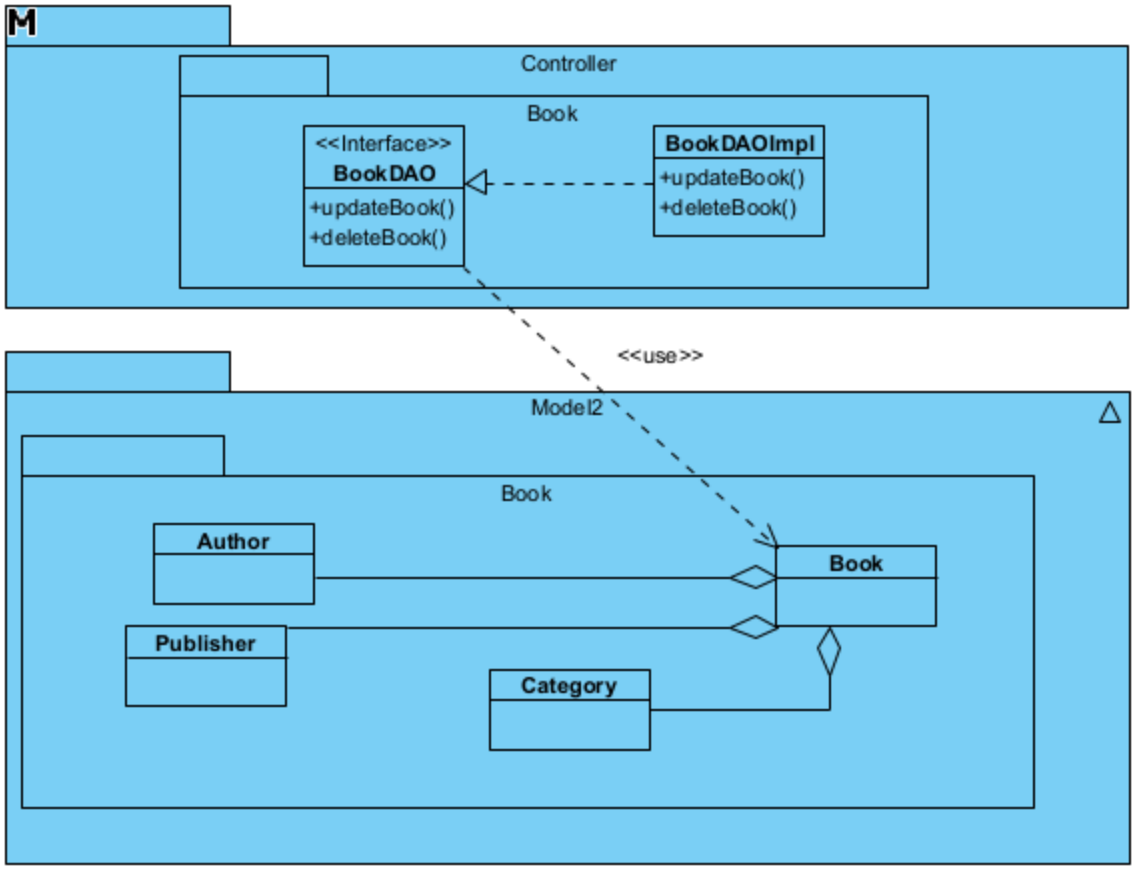
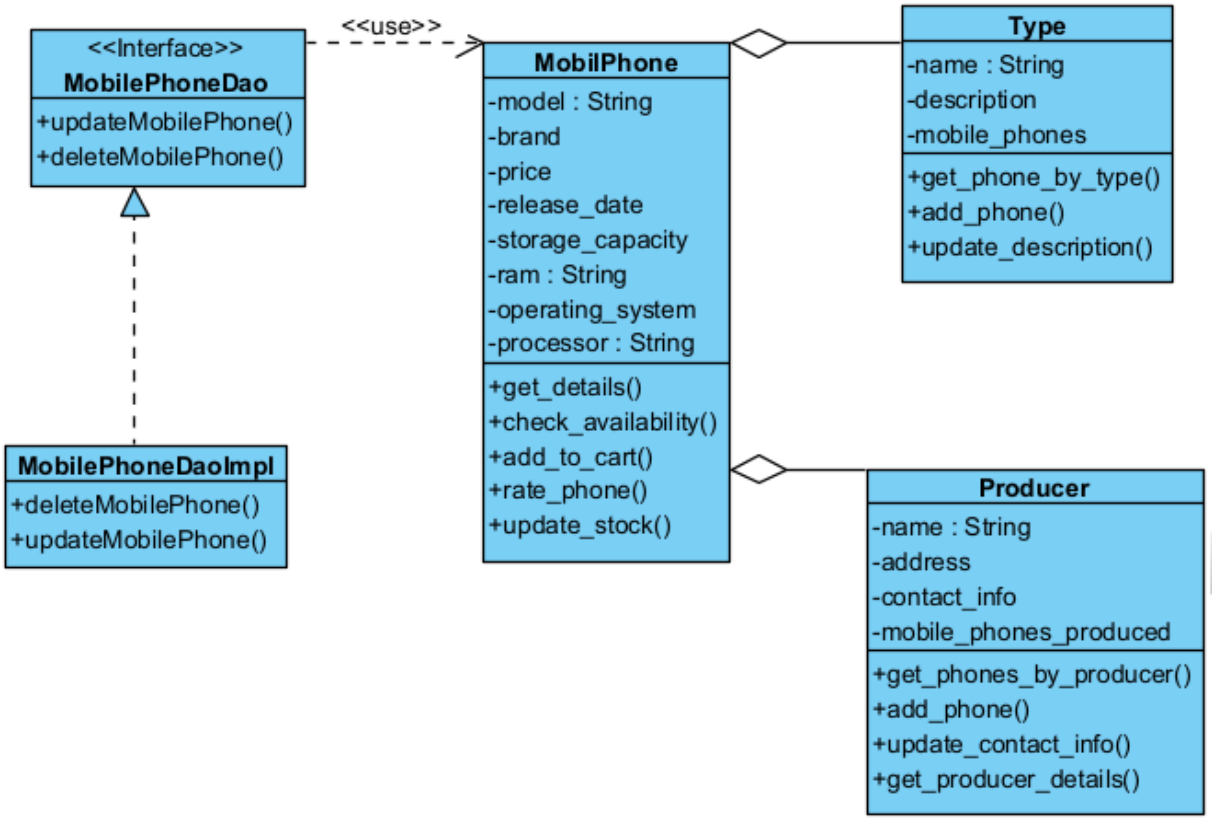
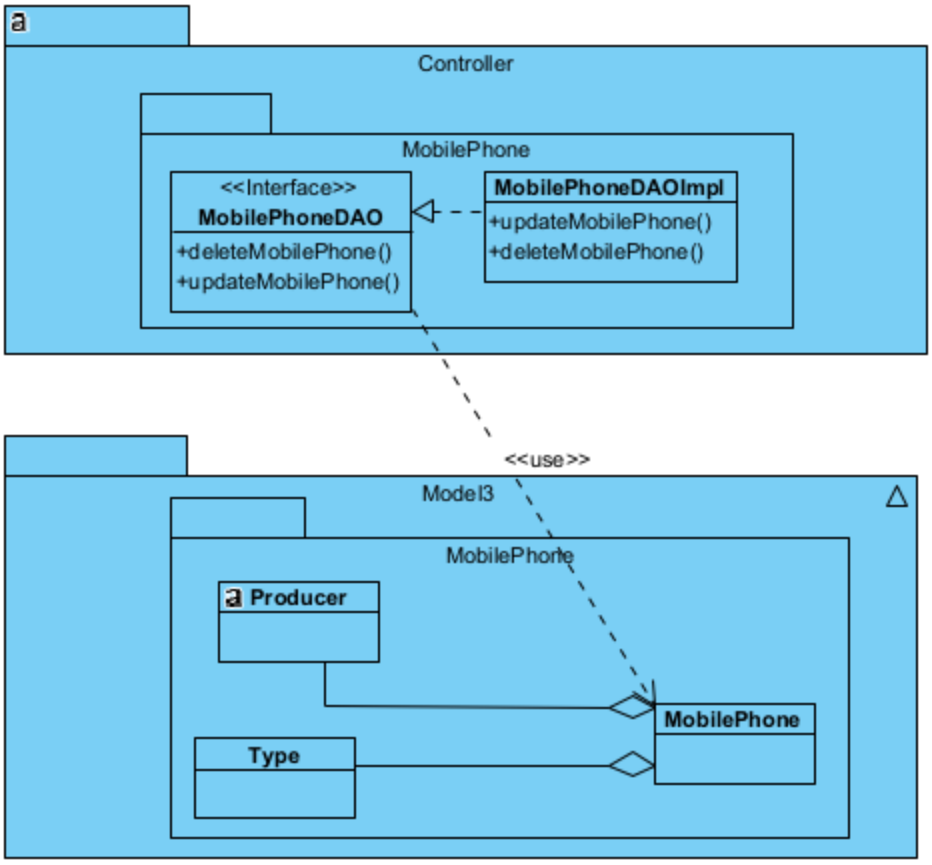
1. Book


<<Interface>>
BookDao
+updateBook()
+createBook()
<<use>>
Book
-title
-isbn
-price
-publication_date
-author
-category
-rating
-descripton
+get_details()
+check_availability()
+add_to_cart()
+apply_discount()
Publisher
-name : String
-address
-contact_infor
-book_published
+get_books_published()
+add_book()
+update_cotact_info()
Author
-name : String
-bio
-nationality
-books_written
+get_books()
+get_bio()
+add_book()
+update_bio()
BookDaoImpl
+updateBook()
+createBook()
Category
-name : String
-description
-books
+get_books_in_category()
+add_books_in_category()
+update_description()

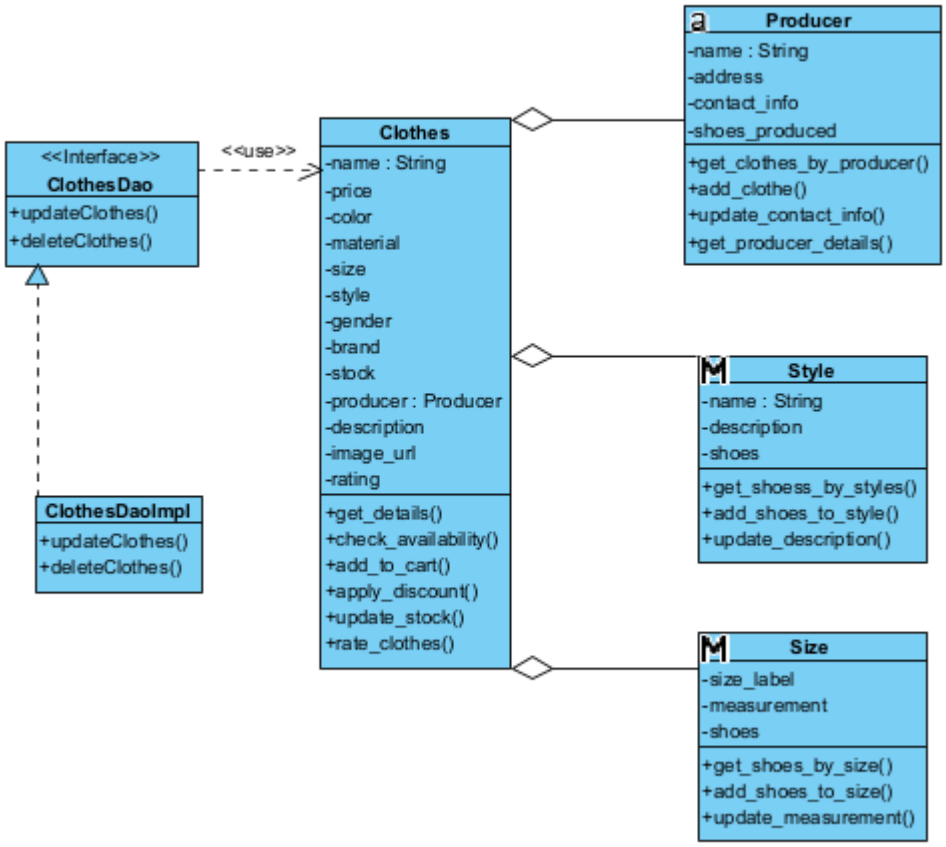


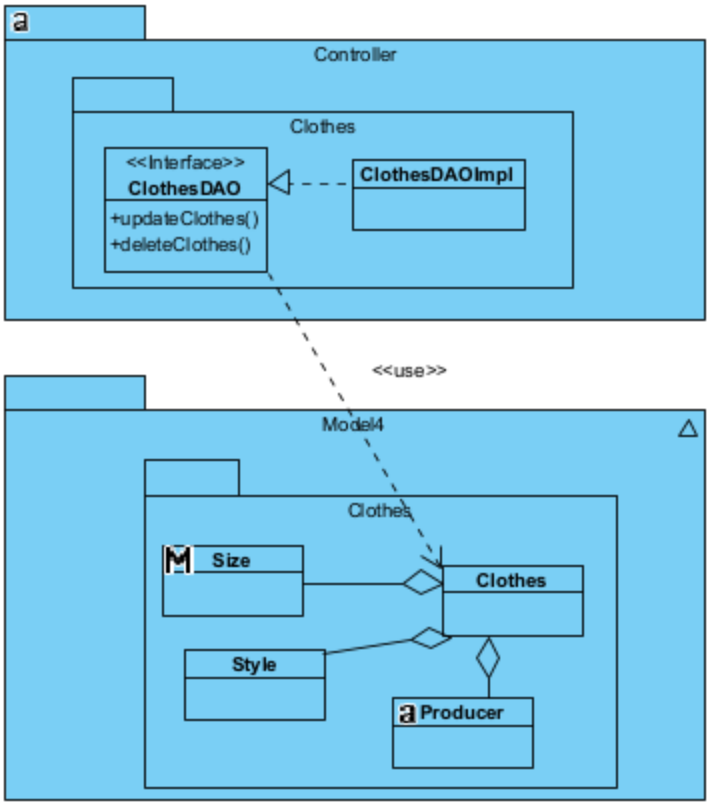
2. MobilePhone


<<Interface>>
MobilePhoneDao
+updateMobilePhone()
+deleteMobilePhone()
<<use>>
MobilPhone
-model : String
-brand
-price
-release_date
-storage_capacity
-ram : String
-operating_system
-processor : String
+get_details()
+check_availability()
+add_to_cart()
+rate_phone()
+update_stock()
Type
-name : String
-description
-mobile_phones
+get_phone_by_type()
+add_phone()
+update_description()
MobilePhoneDaoImpl
+deleteMobilePhone()
+updateMobilePhone()
Producer
-name : String
-address
-contact_info
-mobile_phones_produced
+get_phones_by_producer()
+add_phone()
+update_contact_info()
+get_producer_details()

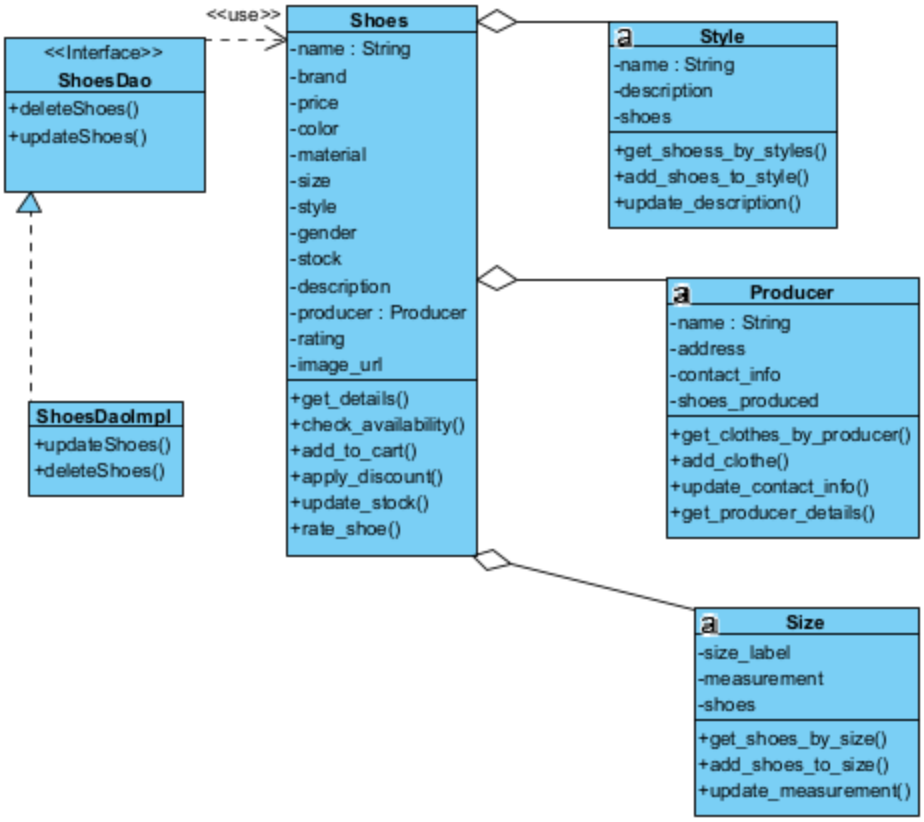

Controller
MobilePhone
<<Interface>>
MobilePhoneDAO
+deleteMobilePhone()
+updateMobilePhone()
MobilePhoneDAOImpl
+updateMobilePhone()
+deleteMobilePhone()
<<use>>
Model3
MobilePhone
Producer
MobilePhone
Type

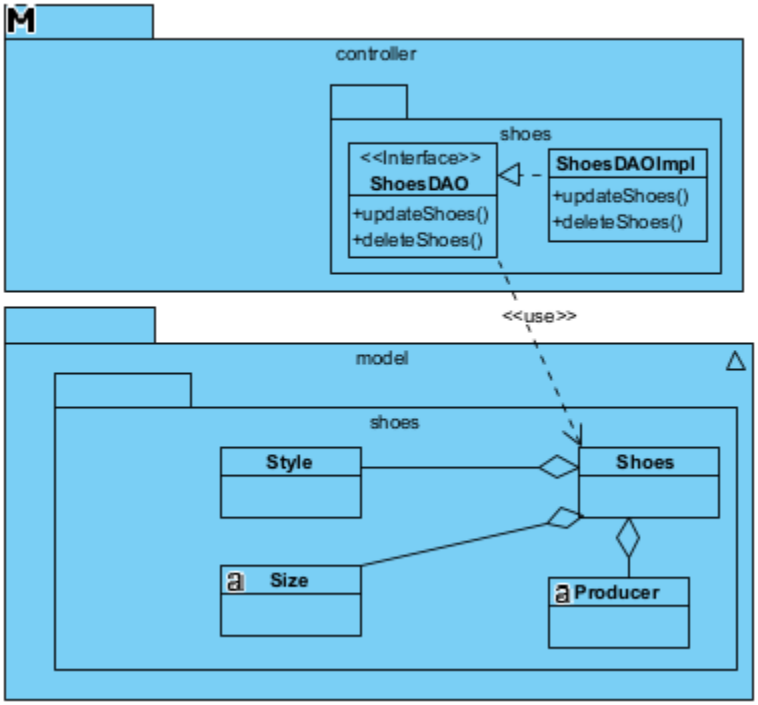
3. Clothes


Producer
-name : String
-address
-contact_info
-shoes_produced
+get_clothes_by_producer()
+add_clothe()
+update_contact_info()
+get_producer_details()
<<Interface>>
ClothesDao
+updateClothes()
+deleteClothes()
<<use>>
Clothes
-name : String
-price
-color
-material
-size
-style
-gender
-brand
-stock
-producer : Producer
-description
-image_url
-rating
+get_details()
+check_availability()
+add_to_cart()
+apply_discount()
+update_stock()
+rate_clothes()
Style
-name : String
-description
-shoes
+get_shoess_by_styles()
+add_shoes_to_style()
+update_description()
ClothesDaoImpl
+updateClothes()
+deleteClothes()
Size
-size_label
-measurement
-shoes
+get_shoes_by_size()
+add_shoes_to_size()
+update_measurement()

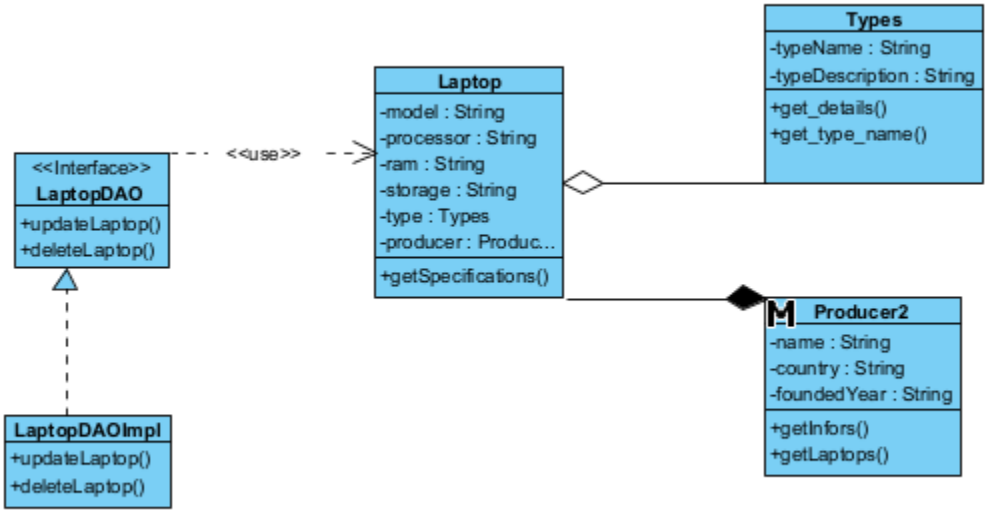

Controller
Clothes
<<Interface>>
ClothesDAO
+updateClothes()
+deleteClothes()
ClothesDAOImpl
<<use>>
Model4
Clothes
Size
Clothes
Style
Producer

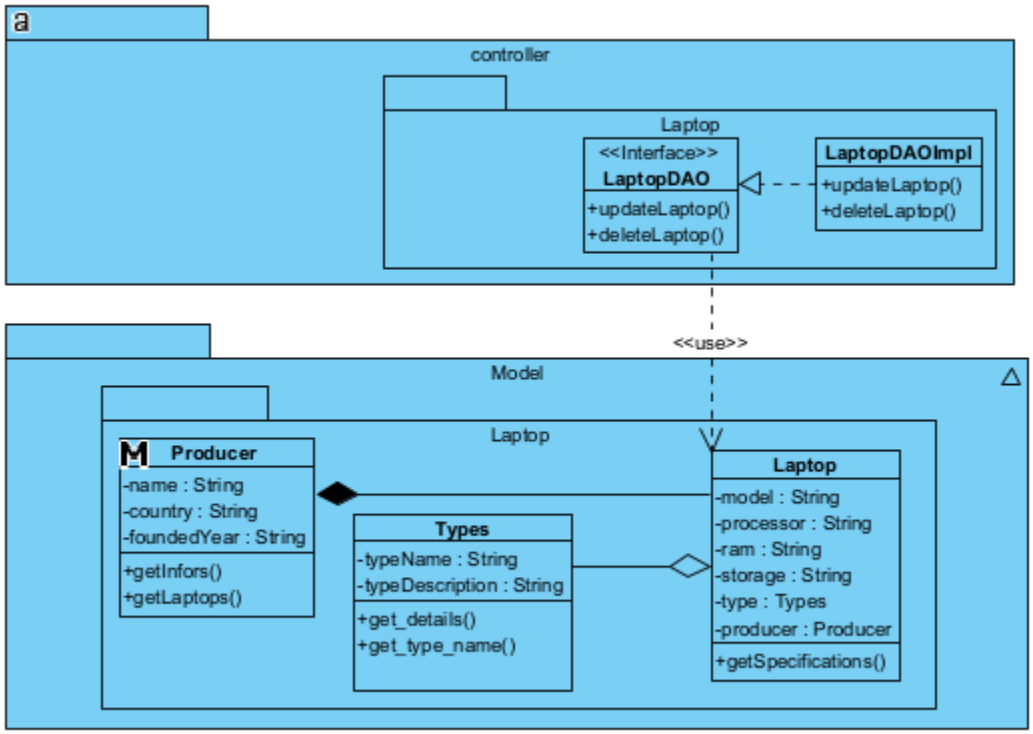
4. Shoes


<<use>>
<<Interface>>
ShoesDao
+deleteShoes()
+updateShoes()
ShoesDaoImpl
+updateShoes()
+deleteShoes()
Shoes
-name : String
-brand
-price
-color
-material
-size
-style
-gender
-stock
-description
-producer : Producer
-rating
-image_url
+get_details()
+check_availability()
+add_to_cart()
+apply_discount()
+update_stock()
+rate_shoe()
Style
-name : String
-description
-shoes
+get_shoess_by_styles()
+add_shoes_to_style()
+update_description()
Producer
-name : String
-address
-contact_info
-shoes_produced
+get_clothes_by_producer()
+add_clothe()
+update_contact_info()
+get_producer_details()
Size
-size_label
-measurement
-shoes
+get_shoes_by_size()
+add_shoes_to_size()
+update_measurement()

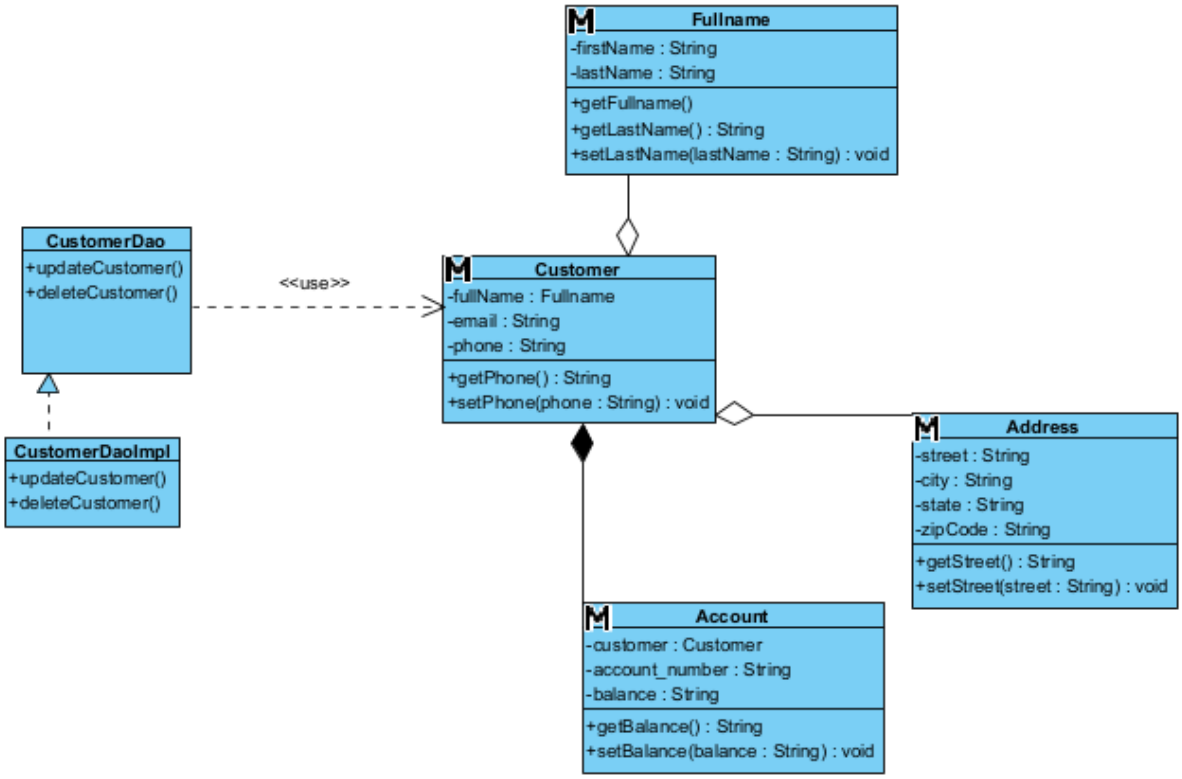

controller
shoes
<<Interface>>
ShoesDAO
+updateShoes()
+deleteShoes()
ShoesDAOImpl
+updateShoes()
+deleteShoes()
<<use>>
model
shoes
Style
Shoes
Size
Producer

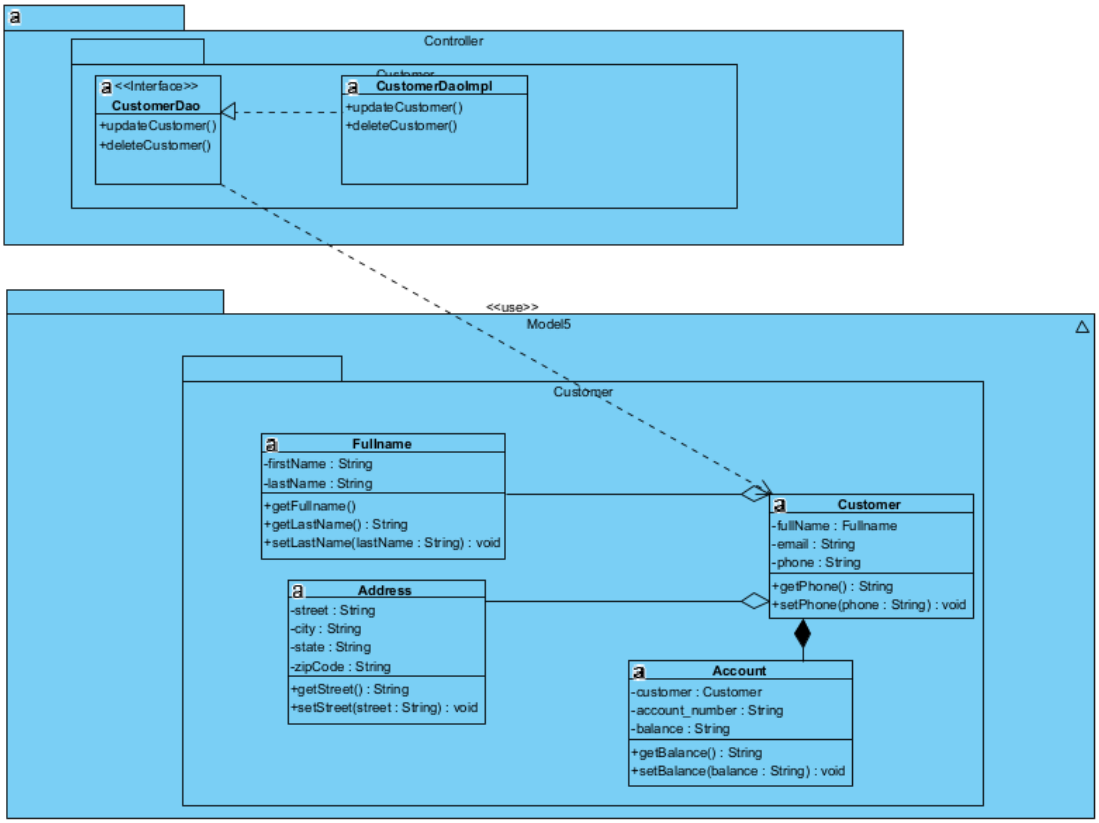
5. Laptop


Types
-typeName : String
-typeDescription : String
+get_details()
+get_type_name()
Laptop
-model : String
-processor : String
-ram : String
-storage : String
-type : Types
-producer : Produc...
+getSpecifications()
<<use>>
<<Interface>>
LaptopDAO
+updateLaptop()
+deleteLaptop()
Producer2
-name : String
-country : String
-foundedYear : String
+getInfors()
+getLaptops()
LaptopDAOImpl
+updateLaptop()
+deleteLaptop()


a
controller
Laptop
<<Interface>>
LaptopDAO
+updateLaptop()
+deleteLaptop()
LaptopDAOImpl
+updateLaptop()
+deleteLaptop()
<<use>>
Model
Laptop
Producer
-name : String
-country : String
-foundedYear : String
+getInfors()
+getLaptops()
Types
-typeName : String
-typeDescription : String
+get_details()
+get_type_name()
Laptop
-model : String
-processor : String
-ram : String
-storage : String
-type : Types
-producer : Producer
+getSpecifications()

6. Customer


Fullname
-firstName : String
-lastName : String
+getFullname()
+getLastName() : String
+setLastName(lastName : String) : void
CustomerDao
+updateCustomer()
+deleteCustomer()
<<use>>
Customer
-fullName : Fullname
-email : String
-phone : String
+getPhone() : String
+setPhone(phone : String) : void
Address
-street : String
-city : String
-state : String
-zipCode : String
+getStreet() : String
+setStreet(street : String) : void
CustomerDaoImpl
+updateCustomer()
+deleteCustomer()
Account
-customer : Customer
-account_number : String
-balance : String
+getBalance() : String
+setBalance(balance : String) : void


Controller
<<Interface>>
CustomerDao
+updateCustomer()
+deleteCustomer()
CustomerDaoImpl
+updateCustomer()
+deleteCustomer()
<<use>>
Model5
Customer
Fullname
-firstName : String
-lastName : String
+getFullname()
+getLastName() : String
+setLastName(lastName : String) : void
Address
-street : String
-city : String
-state : String
-zipCode : String
+getStreet() : String
+setStreet(street : String) : void
Customer
-fullName : Fullname
-email : String
-phone : String
+getPhone() : String
+setPhone(phone : String) : void
Account
-customer : Customer
-account_number : String
-balance : String
+getBalance() : String
+setBalance(balance : String) : void