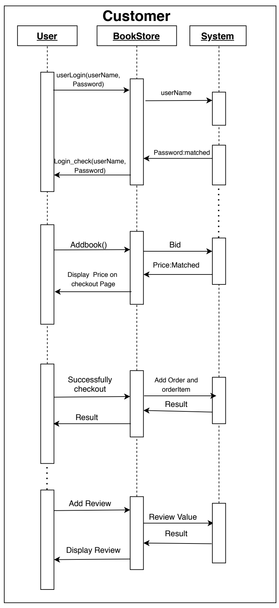
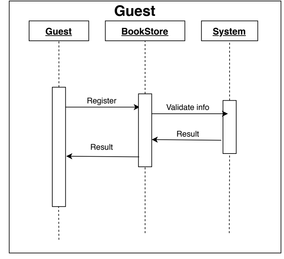
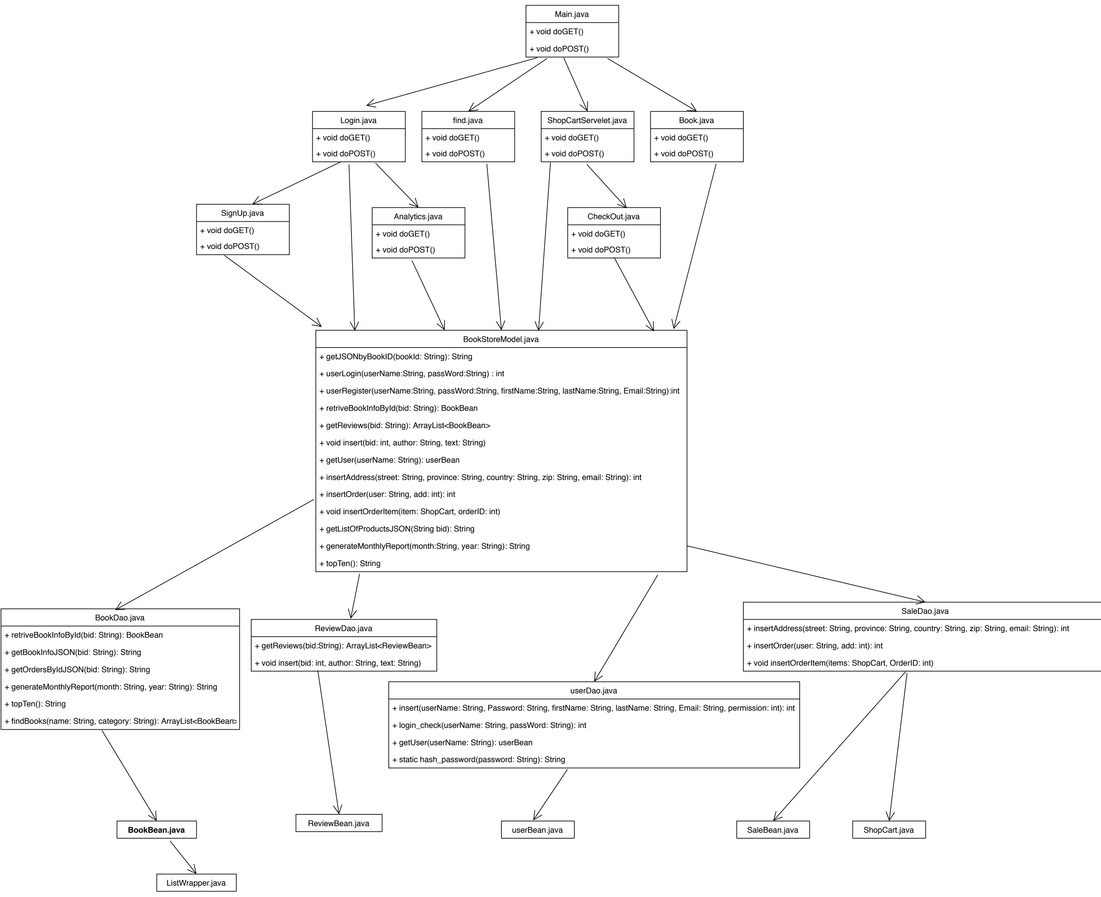
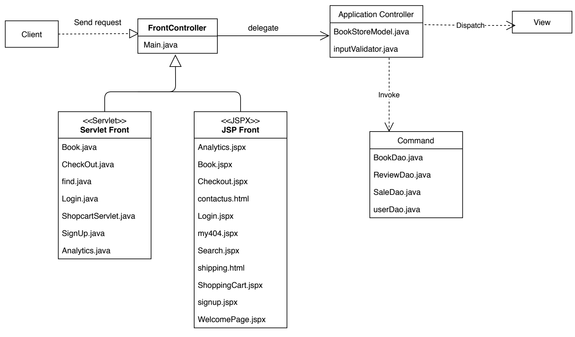
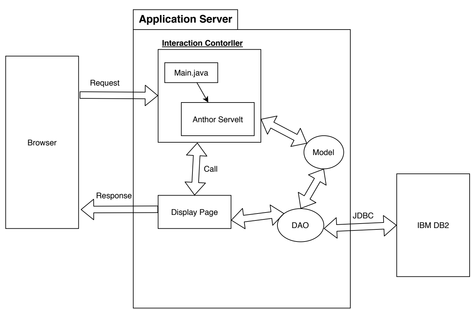

Customer
User
BookStore
System
userLogin(userName, Password)
userName
Password:matched
Login_check(userName, Password)
Addbook()
Bid
Price:Matched
Display Price on checkout Page
Successfully checkout
Add Order and orderItem
Result
Result
Add Review
Review Value
Result
Display Review


Guest
Guest
BookStore
System
Register
Validate info
Result
Result


Main.java
+ void doGET()
+ void doPOST()
Login.java
+ void doGET()
+ void doPOST()
find.java
+ void doGET()
+ void doPOST()
ShopCartServelet.java
+ void doGET()
+ void doPOST()
Book.java
+ void doGET()
+ void doPOST()
SignUp.java
+ void doGET()
+ void doPOST()
Analytics.java
+ void doGET()
+ void doPOST()
CheckOut.java
+ void doGET()
+ void doPOST()
BookStoreModel.java
+ getJSONbyBookID(bookId: String): String
+ userLogin(userName:String, passWord:String) : int
+ userRegister(userName:String, passWord:String, firstName:String, lastName:String, Email:String):int
+ retriveBookInfoById(bid: String): BookBean
+ getReviews(bid: String): ArrayList<BookBean>
+ void insert(bid: int, author: String, text: String)
+ getUser(userName: String): userBean
+ insertAddress(street: String, province: String, country: String, zip: String, email: String): int
+ insertOrder(user: String, add: int): int
+ void insertOrderItem(item: ShopCart, orderID: int)
+ getListOfProductsJSON(String bid): String
+ generateMonthlyReport(month:String, year: String): String
+ topTen(): String
BookDao.java
+ retriveBookInfoById(bid: String): BookBean
+ getBookInfoJSON(bid: String): String
+ getOrdersByIdJSON(bid: String): String
+ generateMonthlyReport(month: String, year: String): String
+ topTen(): String
+ findBooks(name: String, category: String): ArrayList<BookBean>
ReviewDao.java
+ getReviews(bid:String): ArrayList<ReviewBean>
+ void insert(bid: int, author: String, text: String)
SaleDao.java
+ insertAddress(street: String, province: String, country: String, zip: String, email: String): int
+ insertOrder(user: String, add: int): int
+ void insertOrderItem(items: ShopCart, OrderID: int)
userDao.java
+ insert(userName: String, Password: String, firstName: String, lastName: String, Email: String, permission: int): int
+ login_check(userName: String, passWord: String): int
+ getUser(userName: String): userBean
+ static hash_password(password: String): String
BookBean.java
ReviewBean.java
userBean.java
SaleBean.java
ShopCart.java
ListWrapper.java


Client
Send request
FrontController
Main.java
delegate
Application Controller
BookStoreModel.java
inputValidator.java
Dispatch
View
Invoke
<<Servlet>>
Servlet Front
Book.java
CheckOut.java
find.java
Login.java
ShopcartServlet.java
SignUp.java
Analytics.java
<<JSPX>>
JSP Front
Analytics.jspx
Book.jspx
Checkout.jspx
contactus.html
Login.jspx
my404.jspx
Search.jspx
shipping.html
ShoppingCart.jspx
signup.jspx
WelcomePage.jspx
Command
BookDao.java
ReviewDao.java
SaleDao.java
userDao.java


Application Server
Interaction Contorller
Main.java
Anthor Servelt
Browser
Request
Model
Call
Response
Display Page
DAO
JDBC
IBM DB2