UML Class Diagram

«servlet»
HttpServlet

«abstract»
FrontCommand

- response: HttpServletResponse
- request: HttpServletRequest
- context: ServletContext

+ init(ServletContext context, HttpServletRequest request, HttpServletResponse response)
~ process(): void
#forward(String target): void

«servlet»
Front Servlet

+ processRequest(request: HttpServletRequest, response: HttpServletResponse): void
~ getCommand(request: HttpServletRequest): FrontCommand
- getCommandClass(request: HttpServletRequest): Class
+ doGet(request: HttpServletRequest, response: HttpServletResponse): void
+ doPost(request: HttpServletRequest, response: HttpServletResponse): void
+ getServletInfo(): String

PerformPurchaseCommand
~ process(): void

AddToCartCommand
~ process(): void

EmptyCartCommand
~ process(): void

RemoveFromCartCommand
~ process(): void

UnknownCommand
~ process(): void

Book
- price
- categories: JSONArray
- authors: JSONArray
- status: String
- longDescription: String
- shortDescription: String
- thumbnailUrl: String
- date: JSONObject
- pages: long
- isbn: String
- title: String

+ getTitle(): String
+ getIsbn(): String
+ getPages(): long
+ getDate(): JSONObject
+ getParsedDate(): String
+ getParsedAuthors(): String
+ getThumbnailUrl(): String
+ getShortDescription(): String
+ getLongDescription(): String
+ getStatus(): String
+ getCategories(): JSONArray
+ getPrice(): float
+ toString(): String

Catalogue
- catalog: ArrayList<Book>

+ getCatalogue(): ArrayList<Book>
+ addToCatalogue(Book book): void
+ findByIsbn(String isbn): Book

«interface»
Reader

+ addItemsFromReader(String path, Catalogue catalog): void

BookJSONReader

+ addItemsFromReader(String path, Catalogue catalog): void
- parseObject(JSONObject book): Book

ShoppingCart
- shoppingCart: Map

+ getShoppingCart(): Map
+ setShoppingCart(Map shoppingCart): void
+ addToCart(Book book): void
+ getQuantity(Book book): Integer
+ removeFromCart(Book book): void

Receipt
- cart: ShoppingCart

+ getPriceWithoutGC(): float
+ calculateGC(float price): float
+ getTotalAmount(): float

«jsp»
commanderrorview

«jsp»
index

«jsp»
purchaseview

«jsp»
shoppingcartview

«jsp»
successfulpurchaseview

«jsp»
footer

«jsp»
header