ENSF 409

Project

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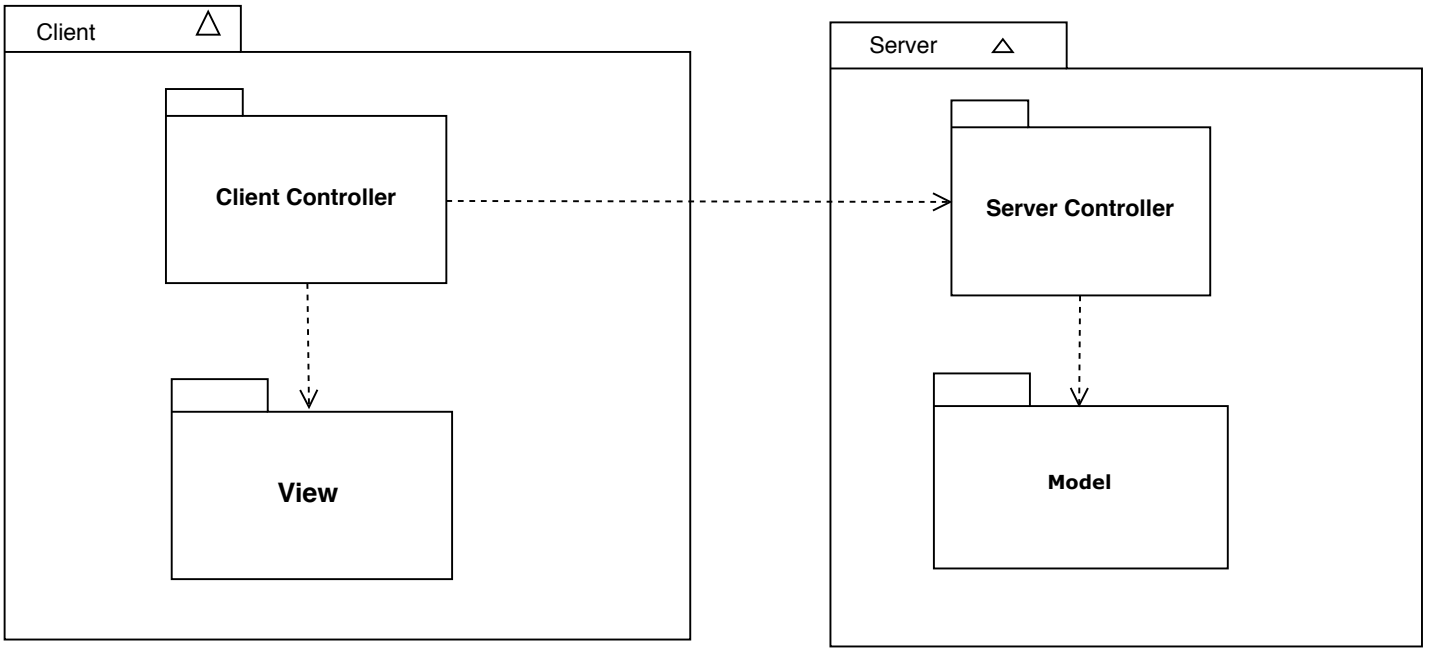
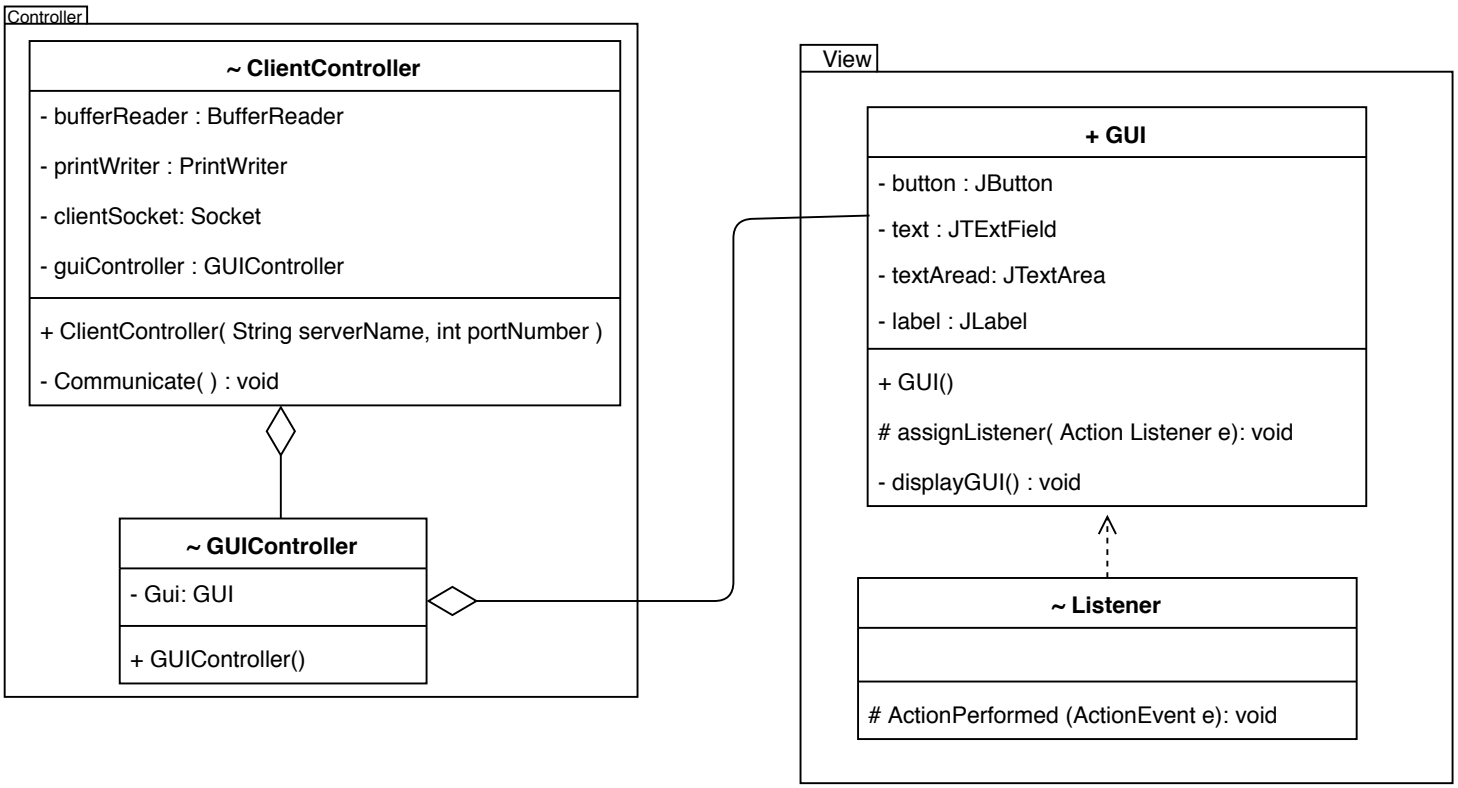
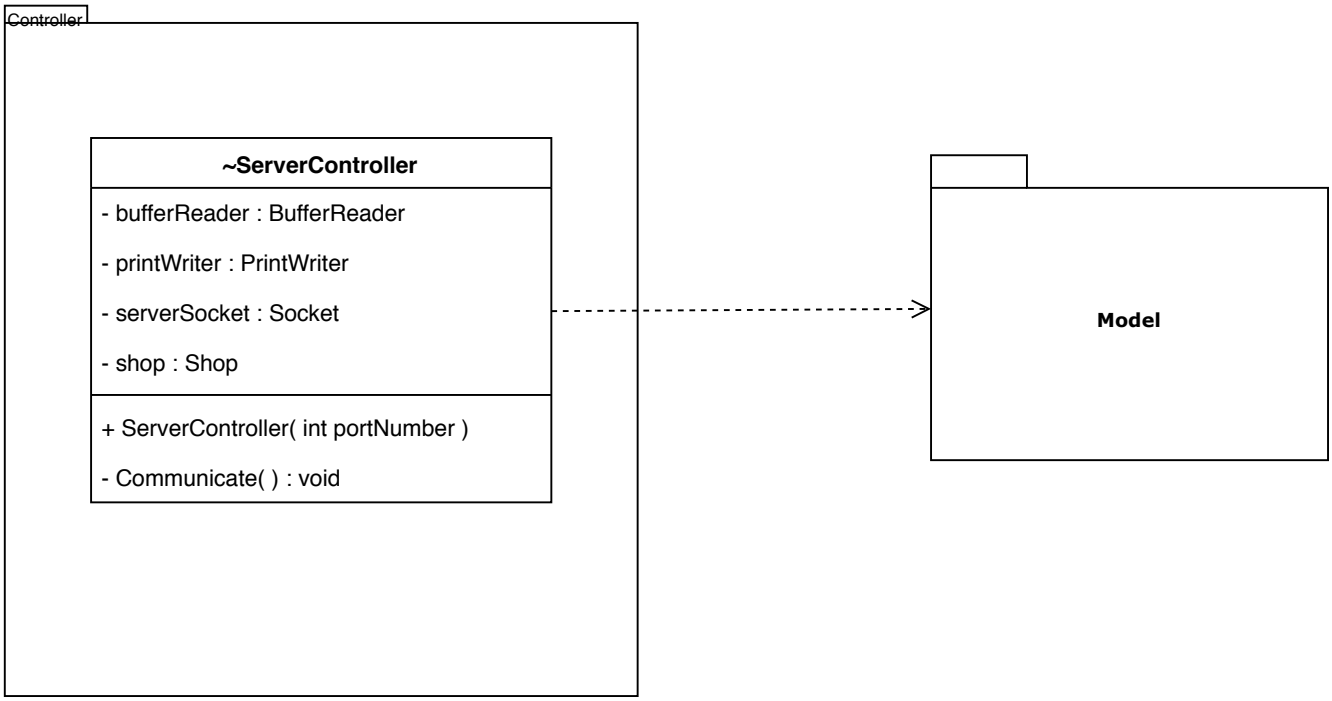
High-Level UML



Client Package



Server Package



Model Package

~ Order

- orderId : int
- orderLines : ArrayList<OrderLine>
- today : Date

+ Order()
# addOrderLine (OrderLine orderLine) : void
# toString() : String

~ OrderLine

- item : Item
- orderQuantity : int

toString() : String

+Shop

- inventory: Inventory
- suppliers: ArrayList <Supplier>
- bufferReader : BufferReader
- printWriter : PrintWriter
- socket: Socket
- dataBase : DataBase

+ Shop (Inventory inventory, ArrayLIst <Supplier> suppliers)
# listItems(): void
- toSend(String toSend): void
decreaseItem(String tool): void
listSuppliers(): void
getItem(String name): void
getItem(int toolId): void
outputItem(Item tool): String
getItemQuantity(String name): void
createInventroy(String name): void
createSuppliersList(String name): void
printOrder(): void

~ Inventory

- tools: ArrayList <Item>
- order: Order

+ Inventory (ArrayLIst <Item> tools)
# manageItem(String name) : Item
# placeOrder(Item tool) : void
- decreaseItem(String tool) : Item
getItemQuantity(String name) : int
searchItem(String name) : Item
toString() : String
searchItem(int id) : Item
printOrder() : String

~ Item

- id : int
- name : String
- quantity : int
- price : double
- alreadyOrdered : Boolean
- supplier : Supplier

+ Item (int id, String name, int quantity, double price, Supplier supplier)
# decreaseQuantity(): Boolean
# placeOrder(): OrderLine
# toString(): String

~ DataBase

Read() : ArrayList <Supplier>
Read() : ArrayList <Item>
Write (ArrayList <Item> items) : void
Write (ArrayList <ISupplier> suppliers) : void

~ Supplier

- id : int
- name : String
- supplierAddress : String
- supplierContactName : String
- itemList : ArrayList<Item>

+ Supplier(int id, String name, String address, String contactName)
# toString() : String

Use

supplies