

CustomerController
-customerService : CustomerService {readOnly}
+CustomerController(customerService : CustomerService) +getCustomerById(id : Long) : Customer +getCustomerAll() : List<Customer> +newCustomer(customer : Customer) : Customer +deleteCustomer(id : Long) : void +updateCustomer(customer : Customer) : Customer +addAddress(id : Long, address : Address) : Customer

AddressController
-addressService : AddressService {readOnly}
+AddressController(addressService : AddressService) +getAddressById(id : Long) : Address +getAddressAll() : List<Address> +newAddress(address : Address) : Address +deleteAddress(id : Long) : void +updateAddress(address : Address) : Address +addCustomer(id : Long, customer : Customer) : Address

OrderController
-orderService : OrderService {readOnly}
+OrderController(orderService : OrderService) +getOrderById(id : Long) : Order +getOrderAll() : List<Order> +newOrder(order : Order) : Order +deleteOrder(id : Long) : void +updateOrder(order : Order) : Order

MachineController
-machineService : MachineService {readOnly}
+MachineController(machineService : MachineService) +getMachineById(id : Long) : Machine +getMachineAll() : List<Machine> +newMachine(machine : Machine) : Machine +deleteMachine(id : Long) : void +updateMachine(machine : Machine) : Machine

SubassemblyController
-subassemblyService : SubassemblyService {readOnly}
+SubassemblyController(subassemblyService : SubassemblyService) +getSubassemblyById(id : Long) : Subassembly +getSubassemblyAll() : List<Subassembly> +newSubassembly(subassembly : Subassembly) : Subassembly +deleteSubassembly(id : Long) : void +updateSubassembly(subassembly : Subassembly) : Subassembly

PartController
-partService : PartService {readOnly}
+PartController(partService : PartService) +getPartById(id : Long) : Part +getPartAll() : List<Part> +newPart(part : Part) : Part +deletePart(id : Long) : void +updatePart(part : Part) : Part

CustomerService
-customerRepository : CustomerRepository {readOnly}
+CustomerService(customerRepository : CustomerRepository) +getCustomerById(id : Long) : Customer +getCustomerAll() : List<Customer> +newCustomer(customer : Customer) : Customer +deleteCustomer(id : Long) : void +updateCustomer(customer : Customer) : Customer +addAddress(id : Long, address : Address) : Customer

AddAddress vs UpdateCustomer?

AddressService
-addressRepository : AddressRepository {readOnly}
+AddressService(addressRepository : AddressRepository) +getAddressById(id : Long) : Address +getAddressAll() : List<Address> +newAddress(address : Address) : Address +deleteAddress(id : Long) : void +updateAddress(address : Address) : Address +addCustomer(id : Long, customer : Customer) : Address

AddCustomer vs UpdateAddress?

SubassemblyService
-subassemblyRepository : SubassemblyRepository {readOnly}
+SubassemblyService(subassemblyRepository : SubassemblyRepository) +getSubassemblyById(id : Long) : Subassembly +getSubassemblyAll() : List<Subassembly> +newSubassembly(subassembly : Subassembly) : Subassembly +deleteSubassembly(id : Long) : void +updateSubassembly(subassembly : Subassembly) : Subassembly

OrderService
-orderRepository : OrderRepository {readOnly}
+OrderService(orderRepository : OrderRepository) +getOrderById(id : Long) : Order +getOrderAll() : List<Order> +newOrder(order : Order) : Order +deleteOrder(id : Long) : void +updateOrder(order : Order) : Order

MachineService
-machineRepository : MachineRepository {readOnly}
+MachineService(machineRepository : MachineRepository) +getMachineById(id : Long) : Machine +getMachineAll() : List<Machine> +newMachine(machine : Machine) : Machine +deleteMachine(id : Long) : void +updateMachine(machine : Machine) : Machine

PartService
-partRepository : PartRepository {readOnly}
+PartService(partRepository : PartRepository) +getPartById(id : Long) : Part +getPartAll() : List<Part> +newPart(part : Part) : Part +deletePart(id : Long) : void +updatePart(part : Part) : Part

<<Longerface>>
CustomerRepository

<<Longerface>>
AddressRepository

<<Longerface>>
MachineRepository

<<Longerface>>
SubassemblyRepository

<<Longerface>>
PartRepository

<<Longerface>>
OrderRepository

Customer		
PK	customer_id	Long
	customer_name	string
FK	customer_address_id	Long

Customer_Address		
PK	customer_address_id	Long
FK	customer_id	Long
FK	address_id	Long

Address		
PK	address_id	Long
	address_location	string
FK	customer_address_id	Long

Order		
PK	order_id	Long
FK	customer_id	Type

Machine		
PK	machine_id	Long

What is a machine?
Relation to order

Subassembly		
PK	subassembly_id	Long
	subassembly_name	string
FK	machine_id	Long

Part		
PK	part_id	Long
	part_name	string
FK	subassembly_id	Long

Lombok or not?

Customer
-customerId : Long {readOnly} -customerName : String -customerAddresses : List<Address> -customerOrders : List<Order>
+Customer(name, address) : void +Getter, Setter, NoArgsConstructor()

Address
-addressId : Long {readOnly} -addressLocation : String -addressCustomers : List<Customer>
+Address(location, customer) : void +Getter, Setter, NoArgsConstructor()

Part
-partId : Long {readOnly} -partName : String
+Part(name) : void +Getter, Setter, NoArgsConstructor()

Order
-orderId : Long {readOnly} -orderMachines : List<Machine> -orderCustomer : Customer
+Order(machine, customer) : void +Getter, Setter, NoArgsConstructor()

Machine
-machineId : Long {readOnly} -machineSubassemblies : List<Machine>
+Machine(subassembly) : void +Getter, Setter, NoArgsConstructor()

Subassembly
-subassemblyId : Long {readOnly} -subassemblyName : String -subassemblyParts : List<Part>
+Subassembly(name, part) : void +Getter, Setter, NoArgsConstructor()