Evitar constructores telescópicos

Permitir diferentes representaciones del mismo proceso de construcción

@startuml

title Diagrama de Clases - Patrón Builder Actualizado

class Automobile {

- engineType: String

- color: String

- wheels: String

- soundSystem: String

- interior: String

- roof: String

- gpsNavigation: boolean

--

+ getEngineType(): String

+ getColor(): String

+ getWheels(): String

+ getSoundSystem(): String

+ getInterior(): String

+ getRoof(): String

+ isGpsNavigation(): boolean

}

class AutomobileBuilder {

- engineType: String

- color: String

- wheels: String

- soundSystem: String

- interior: String

- roof: String

- gpsNavigation: boolean

--

+ setEngineType(engineType: String): AutomobileBuilder

+ setColor(color: String): AutomobileBuilder

+ setWheels(wheels: String): AutomobileBuilder

+ setSoundSystem(soundSystem: String): AutomobileBuilder

+ setInterior(interior: String): AutomobileBuilder

+ setRoof(roof: String): AutomobileBuilder

+ setGpsNavigation(gpsNavigation: boolean): AutomobileBuilder

+ build(): Automobile

}

interface InterfaceBuilder {

+ build(): T

}

class RegisterOrderService {

- orderRepository: OrderRepository

--

+ registerOrder(request: RegisterOrderRequest): OrderEntity

}

class OrderEntity {

- id: Long

- customerName: String

- automobileDetails: String

- orderDate: LocalDateTime

--

+ setAutomobile(automobile: Automobile): void

}

class OrderRepository {

+ save(orderEntity: OrderEntity): OrderEntity

}

class RegisterOrderRequest {

- engineType: String

- color: String

- wheels: String

- soundSystem: String

- interior: String

- roof: String

- gpsNavigation: boolean

- customerName: String

- orderDate: LocalDateTime

--

+ getEngineType(): String

+ getColor(): String

+ getWheels(): String

+ getSoundSystem(): String

+ getInterior(): String

+ getRoof(): String

+ isGpsNavigation(): boolean

+ getCustomerName(): String

+ getOrderDate(): LocalDateTime

}

class CustomCarOrderServiceApplication {

--

+ run(registerOrderService: RegisterOrderService): void

}

InterfaceBuilder <|.. AutomobileBuilder

AutomobileBuilder --> Automobile : "build()"

RegisterOrderService --> OrderRepository

RegisterOrderService --> OrderEntity

RegisterOrderService --> RegisterOrderRequest

OrderEntity --> Automobile : "setAutomobile()"

CustomCarOrderServiceApplication --> RegisterOrderService

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