Lab Assignment 3: Chain of Responsibility

UML Diagram for Automated Waste Management System

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AutomatedWasteManagementSystem()

WasteManagementSystem

-firstHandler:WasteHandler

+ WasteManagementSystem()
+ collectWaste(container: WasteContainer)

WasteContainer

-id:String
-type:WasteType
-maxCapacity:double
-currentCapacity: double

+addWaste(amlount:double)
+empty()

<<enumeration>>
WasteType

ORGANIC
RECYCLABLE
HAZARDOUS
GENERAL

<<interface>>
WasteHandler

+setNext(handler: WasteHandler)
+handleWaste(container: WasteContainer)

AbstractWasteHandler

-nextHandler: WasteHandler
+setNext(handler:WasteHandler)
#passToNextHandler(container: WasteContainer)

OrganicWasteHandler

+handleWaste(container: WasteContainer)

RecyclableWasteHandler

+handleWaste(container: WasteContainer)

HazardousWasteHandler

+handleWaste(container: WasteContainer)

GeneralWasteHandler

+handleWaste(container: WasteContainer)