Team Null/CMD

Baby Formula Supply Blockchain

Requirements

Functional requirements:

1. The system must enable distributors and suppliers to track food in real time.
2. The system must track all food status in each key event, including location, temperature, device and certificates.

OracleInterface

requestData(requestId, request)

Oracle

requestData(requestId, request)
replyData(requestId, caller, data)

OracleClient

receiveDataFromOracle(data)
receiveCargoStatusFromOracle(requestId, status)

Listener

listenForRequest(request)
respondData(requestId, caller, data)

BabyFormulaStatusOracle<BabyFormulaStatusData>

requestBabyFormulaStatusDataFromOracle(request)
receiveBabyFormulaStatusDataFromOracle(data)
receiveDataFromOracle(data)

ConcreteListener<BabyFormulaStatusData>

listenBabyFormulaStatusForRequest(request)
respondBabyFormulaStatusData(requestId, caller, data)

BabyFormulaStatusDataType

temperature
location
device
date

tobytes
fromBytes

BabyFormulaTransit

receiveConcreteDataFromOracle(data)
startTransit()
endTransit()
addBabyFormula(babyFormula)
getBabyFormulaStatus()