

# Entities

**Enum.Status**  
PROCESSING  
DAMAGED  
DISPATCHED  
DELIVERED

**Enum.PaymentType**  
MBWAY  
MB  
PAYPAL

**Enum.ProductType**  
ELETRONICS  
FROZEN\_FOOD  
FRUITS  
CARBONATED\_DRINKS

**Enum.SensorType**  
TEMPERATURE  
GPS  
PRESSURE  
ACCELERATION

**Enum.VolumeType**  
COOLER\_BOX  
CARDBOARD\_BOX  
WOODEN\_CRATE

**Person**  
- id: long  
- name: String  
- email: String  
- password: String

**Customer**  
- orders: List<Order>  
- address: String

**Order**  
- id: long  
- customer: Customer  
- volumes: List<Volume>  
- products: List<Product>  
- status: Enum.Status  
- createdAt: Date  
- paymentType: Enum.Payment

**Product**  
- id: long  
- name: String  
- type: Enum.ProductType  
- orders: List<Order>  
- volumes: List<Volume>  
- stocks: List<Stock>

**Sensor**  
- id: long  
- type: Enum.SensorType  
- isActive: boolean  
- maxThreshold: float  
- minThreshold: float  
- readings: List<Reading>

**Reading**  
- id: long  
- Sensor: sensor  
- valueOne: double  
- valueTwo: double  
- timestamp: Date

**Volume**  
- id: long  
- type: Enum.VolumeType  
- volumeNumber: int  
- products: List<Product>  
- sensors: List<Sensor>  
- dispatchedBy: Employee  
- status: Enum.status  
- order: Order  
- dispatchedAt: Date  
- arrivedAt: Date

**Stock**  
- id: long  
- product: Product  
- warehouse: Warehouse  
- quantity: long

**Employee**  
- warehouse: Warehouse  
- volumesDispatched: List<Volume>

**Manager**  
- office: String

**Warehouse**  
- id: long  
- name: String  
- employees: List<Employee>  
- stocks: List<Stock>

