Active Manager System

Development:

Marcelo Eduardo Guillen Castillo

Java Monterrey Academy

August 23, 2024

Context----------**2**
Architecture----------**2**
Diagram----------2
Business Cases----------**3**
Business Case #1: Requirement of the top 3 products----------3
Business Case #2: Least incidents on the services----------3

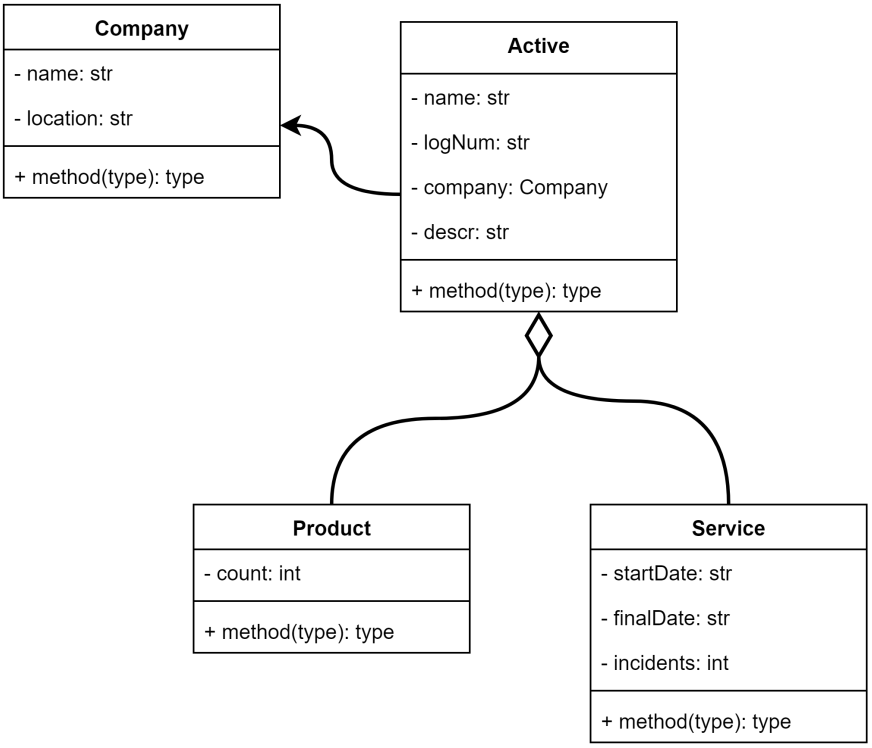
Context

After working for many companies of product storage, observing that they had many problems with the track of their actives throughout the company and outside their scope, so we decided to create a system in form of API that registers and could make operations in order to make an easy counting, removing and adding of actives on the company without any complications.

Architecture

Diagram

Based on the minimum requirements that a company needs, we build the following UML diagram for the design.



Every active belongs to a company, and an active can only be a product or a service, each one with its own characteristics and actions, but both share a description and have a registration number.

Business Cases

The database was recently updated, and some employees upload new data from two different companies (Office Depot and Bing), the problem is that for some strange and bizarre reason, all data are messed up and hasn't a coherence or sense, and we need to make some queries to the database right now, even if the data are messed up, but no worries, we have tools to accomplish that hard task.

Business Case #1: Requirement of the top 3 products

The company Office Depot wanted some of their information on our database, they require their actives with the following specifications:

- Descending order
- Top 3 products with more supply on the warehouse
- Only products

This is because they need to make sure that the first 3 most abundant product supply information is correct with the products they now have in their warehouse.

Business Case #2: Least incidents on the services

The company Bing is requiring information about its services, this is because the sanitary inspector just arrived a few hours at the company, and he needs information of the services with more incidents. On inspections, services that have at maximum 5 incidents are not considered to be defectuous, the rest of them are tested to prove if that service needs to be closed down or just little updates, their inspector needs the service with minimum incidents, after the first services with maximum 5 incidents. The big issue is that the database is in disorder and doesn't have coherent data. So, in order to acquire this task, we need to do the following specifications:

- Remove repeated data.
- Obtain the activities that are services and belong to Bing.
- Make a filter to obtain those services with more than 5 incidents.
- Get only the service with least incidents of those previous filters.