Solution Modeling with UML

Advanced Programming

# Example System – Watson’s Pet Store

## Overview

This document describes the background to and requirements for a system that is used for practical examples.

Watson Corporation is starting up brand new Watson’s Pet Store business that taking care of pets. The company’s Chief Technology Officer (CTO) has written the following requirements for a new software system to be developed by the IT department.

The purpose of the system is to provide products and services for pets and pet owners. Pets are dogs, cats, fish, reptiles, birds, small animals like hamster and other future adopted animals.

Pet products are food, clothes, beds, crates, travel gear etc.

Pet services are vital care, pharmacy / vaccine, grooming (haircuts, baths, spa, skin care…), training, vet services, adoptions, insurance etc.

The users need to be able to use the system in various ways through a web-based interface or a mobile.

* To browse products: name, price, type, images.
* To purchase products using shopping cart. If a product is out of stock, users can place a waiting order for the product. If users are gold members, they can collect reward points
* To browse services: name, price, what’s included
* To reserve service appointment i.e., to schedule appropriate time for services. Once a service appointment is scheduled, it can not be changed unless users are gold members.
* When purchasing products and reserving service appointments, users can view payment info which can be paid via bank transfer or by 3rd party payment service

Besides, system should enable stock officers to retrieve product information and there is a separate internal inventory system which can browse products too.

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Reference:

--https://www.petco.com/shop/en/petcostore

## Use Case Scenario

1. Customer registers his/her name and contact in the system. Customer register his/her pet’s name, birth year and weight in the system. Customer can have more than one pets registered in the system.
2. Customer can place products in his/her shopping cart. Once the shopping cart’s total value is verified, customer can create an order and provide payment to process sale. System validates payment and responds by confirming order, then provides order number that Customer can use to check on order status.

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