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Student ID: \_\_128287216\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section: \_\_\_B\_\_

Class diagram:

Diagram

Description automatically generated

Case1:

Diagram

Description automatically generated with medium confidence

A picture containing diagram

Description automatically generated

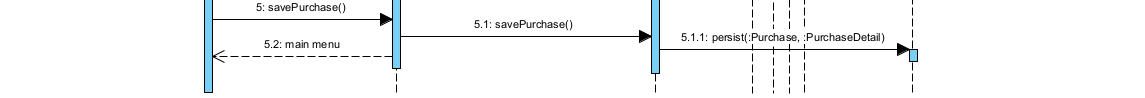
Case2:

Diagram

Description automatically generated

Diagram

Description automatically generated



Question1: Leo would like the system to suggest where to store items in the warehouse. Different racks in the warehouse can hold different weights. How would you incorporate this change in your model? Please describe in English.

Answer: For incorporating this scenario I will have to a new attribute to Product class named ‘weight’. This attribute will be connected to a new class called ‘Rack’ which will have ‘id’, ‘rackNumber’, ‘products’ and ‘weight’ attributes. This class will keep record of all the racks in the warehouse, i.e, which rack can be used to store what quantity of weight and which product is stored in that rack. Both Product class and Rack class will be connected to each other in order to relate their data.

Question2: What is WHMIS? Is this important to Leo?

Answer: The full for of WHMIS is Workplace Hazardous Materials Information System. The main motive of this system is to classify hazards, labelling cautionary contains containing chemicals, provision of material safety sheets, worker education and training programs. Since Leo’s business is completely related to chemicals and pesticides, WHMIS is definitely important for him. It is important for his own as well as for his workers and customers safety. He need to label all the pesticides and chemicals present at his store and hazard signs should be everywhere at his warehouse( where applicable).

Question3: Leo finds a sale on fly traps and would like to buy six months’ worth of product. How would he use your model to figure out how many to buy?

Answer: For helping Leo to figure out how many fly traps he should buy, we need to add new attribute to Product class which will keep record of which product is used to kill what quantity of pests. Also, we need add new class to system which will have the record of presence of pests currently in environment. With the help of this he can easily figure out how many fly traps are required to kill what quantity of flies in next six months

Question4: An insecticide that *Bugs Must Go* uses was contaminated with a chemical that is harmful to cats and dogs. Turns out that by reviewing all the paper purchasing records, Leo determined that *Bugs Must Go* hadn’t purchased any of the contaminated lot. To avoid searching for paper records, how would your change your model. Please describe in English.

Answer: In order to figure out this scenario we will need to add ingredients attribute to Product class. This class is further connected to purchaseDetail. So finding a contaminated product from the purchase record will be a piece of cake for him when he will be able to find the products by ingredients.

Question5: Identify the description class(es) in your model. Why did you make that choice?

Answer: There can be one description class in my model which will have record of related product, purchase of that product and pest related to that product. This will have record of everything which is connected to a particular type of product. I choose this class with these attributes because it’s the only thing in the entire model is ‘Product’ which need to be described.