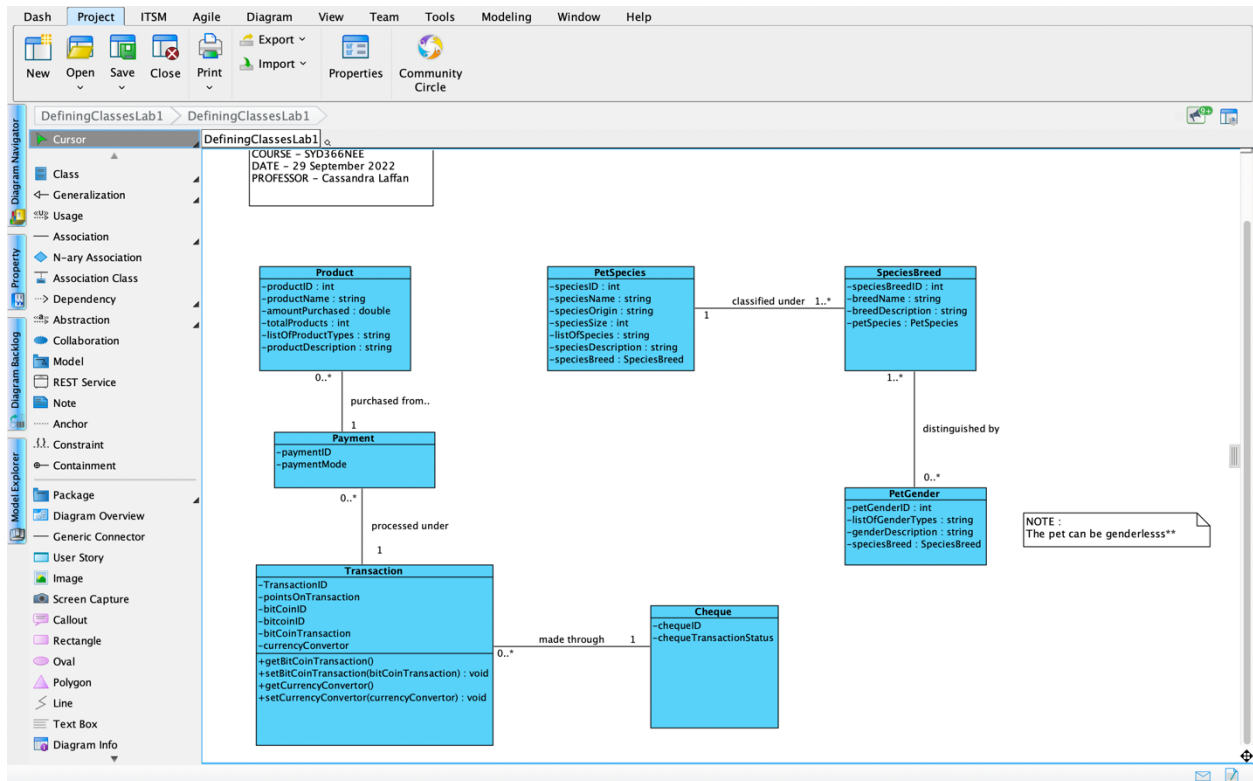


Money Lab Questions

Given your model (your revised class diagram and your sequence diagrams) from the last two lab assignments, complete the following questions. Your answers must be full sentences and in proper English. Submit either a .docx or a PDF containing your answers. Include any screenshots of your revised diagrams, should you choose to make revisions for a given question. You do **not** need to submit your .vpp file for this lab exercise.



PS (for CASS) : I have only attached one screenshot which is the resultant or the finalized class diagram for all the changes I have made for this Lab, so it summaries everything I did throughout the lab, instead of making individual class diagram changes for individual question, which makes it easier for you to grade the document. Note : All the changes are being made in this class diagram only

1. One of Christy's favourite suppliers offers points on purchases. Christy like to include these points when summarizing her transactions. She would like to record when she uses points to buy products from these suppliers. From the government's standpoint, these sales are HST exempt. How would you change the model that you created to support this change in requirements? Include any changes to your diagram here.
 - ➔ If that's the case, then there should be another member variable in the class 'Transaction', known as pointsOnTransaction, which holds the points being accumulated when a transaction has been made by the Christy, she can use these points while making any other payment from the supplier and the summarized bill of the purchase will automatically cut down the total price from the points that she has collected uptill now.

2. One of Christy's customer pays her in USD. What should Christy do? How could you change your model to support this?
 - ➔ In order to support this scenario, of Christy, I will create a method/ member function for the class Transaction which can manually convert the amount paid in USD to CAD, with the taxes, keeping in the calculations, called as currencyConvertor.
3. One of Christy's customer pays her by cheque. What should Christy do? How could you change your model to support this?
 - ➔ For this scenario, if the customer makes the payment through cheque, then there should be a dedicated class called Cheque, to record the details for the cheque given by the customer, and other details like 'chequeID' – which can hold a specific number, which uniquely identifies the cheque given by the customer and also there should be an another class member variable, in the class called 'chequeTransactionStatus' which can notify Christy, if she already made a transaction through the cheque or not, so whenever, Christy needs to visit the bank, in order to retrieve those money then she can look through the system and will be able to know, which cheque deposit she has to make. This is how I will change my model to support this scenario.
4. What would happen to the Government's HST program if everyone, Christy included, started using Bitcoin? How would your model change to support this?
 - ➔ If everyone, starts using Bitcoins, for the transactions then I need to change my model, a little bit, where the class Transaction, should hold a member variable called bitcoinID, where it holds the information for a specific bitcoin transaction made by any of the customer, including Christie, and there should be a method/ member function called bitCoinTransaction, which can be called whenever a Bit Coin has been made, that function will generally won't be including any of the taxes, made by the Government program like HST, since bitcoin doesn't hold any of the liability for the HST program of the Government.
5. Should Christy use her debit card or her credit card for purchases? Why?
 - ➔ From my perspective, Christy should use credit card for her purchases, in place of debit because if she uses credit card more, then it will build up her credit score and can potentially will create an outstanding financial status for her account, if she uses her credit card more often. Moreover, another advantage of using credit card, in place of debit is that she can make a transaction, even if she doesn't have any funds in her account.
6. Some goods and services are HST exempt? What are they? Would there be any benefits to Christy's dog grooming business?
 - ➔ If some goods and services are HST exempt then there would be a lot of benefits to Christy's dog grooming services. To elaborate my argument, I can say that if there is no HST being applied to some of the goods then she has to pay less for those goods, while purchasing from the supplier, then in return, she will have to charge less amount to the customers, at the time of payment. In conclusion, if the customers are getting the services at lesser cost, then there will be more chances that those customers will visit to Christy again for the service.
7. Should Christy accept Apple Pay? Google Pay? Paypal? Include your reasoning.
 - ➔ Christy should accept everything from the above, from my point of view, since a lot of people nowadays uses multiple payment modes for the transaction. Therefore, we don't want Christy's business to fall, if she doesn't able to make any transaction through any of the modes, mentioned above, if she doesn't have that mode in her system.

8. How could Christy accept debit and credit card payments?
- ➔ If there's any customer, who makes a debit card transaction then those specific debit card transactions should be processed through the debit card processing network, where a specific debit card rate will be applied to the payment or if a credit card transaction is being made then those transactions should be processed to credit card processing network, since, both of the cards have different processing rates being applied to them.