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Graphical user interface, text, application, chat or text message

Description automatically generated

Class diagrams:

Case1:

Diagram

Description automatically generated

Case2:

A picture containing diagram

Description automatically generated

Sequence diagrams:

Case1:

Diagram, timeline

Description automatically generated

Case2:

Application

Description automatically generated with low confidence

Question Answers:

\* Sylvester’s having a hard time keeping track of documents and would like to record where Sylvester stored his supplier’s invoices with each expense transaction. Sylvester is committed to scanning any physical invoices received in the mail. How would you change you model to support the electronic location of documents for each expense? Please describe in English.

=> I would like to create on more class named Invoice” which will connected to supplier(currently present) class through invoiceNumber attribute of this class. Invoice will have record of everything about the invoice related to each Expense transaction. The Invoice table will we connected to invoice scanner application so that Sylvester could store all those invoices too which he receives via mail.

\* Most of Sylvester’s clients are happy to pay in cash or by etransfer, but some clients would like to use debit and credit cards. How could Sylvester make this happen? If Sylvester wants to keep track of how his clients are paying – how would you change your model?

=> For fulfilling this requirement, I will make two more tables named “PaymentMethod” and “PaymentTransaction”. PaymentMethod will keep track of if client paying by debit/credit or by cash. And if client is paying by credit then PaymentTransaction will be keeping record of all information of each transaction.

\*One of Sylvester’s clients pays him in USD. What should Sylvester do? How could you change your model to support this?

=> For this scenario I will add a method to the sequence diagram about payments (need to be made for this scenario) which will be converting currency to foreign currency (USD). This method will be a self message sent to Domain controller which will be converting the currency. This will return converted currency to Sylvester, which will solve his issue.

\*Sylvester is a small business owner. Some of his clients have asked if they pay cash, can they avoid paying tax? Is this a good idea for Sylvester? What about his clients?

=> Being a good resident of country, I am completely against paying and receiving cash for any service or good that I buy or sell. So according to me it is not good idea for Sylvester and for clients as well. Because if Sylvester will be receiving payments by cash then a large amount of his income will not be reported to government properly and that will add this income to underground economy. On the other hand, if clients will be paying cash, they will not having any legal invoice about the payment they will be going to make. This way they will not have any legal recourse, and guaranty about the good they will be going to buy.

\**HyperWorks Blacksmiths’* project is documenting the business’s requirements for a new system. We’ve looked at Agile and Waterfall (Predictive) Project Management methodologies. You are a team of 5 analysts and a Project Manager. If you were the Project Manager, what Project Management Methodology would you use for this project? And why?

=> As a project manager I will use Agile project management methodology. Because this will allow us to make quick changes to our system if we need to make to our system. Since this is going to be a small business and the owner might not know all his requirements in the beginning, so if he would ask us to add more functions to our system, it would be easy for us to do so. Because we will be having chance to make significant improvements to our software at each release.