SYD366 Money Test Winter 2021

**SYD 366 Money Test**

Please read the case study and answer the questions below. You are welcome to use additional tools (example Visual Paradigm) as long as you copy pictures of your work into this document. The pictures must be legible. Your professor will not grade any work that isn’t easy to read. You are welcome to use outside sources in formulating your answers. Be sure to reference your work using APA format. ***Work not properly referenced will be passed to the Academic Integrity Committee for review.***

This test is online test you starting from **Feb 9th 8:00 am to Feb 11th 11:59pm,** no late submissions will be accepted.

Submissions will be accepted only;

* Via blackboard
* **One vpp** file and **one doc/docx** document. **Jpeg format will not be accepted and will result in 20% penalty**
* Diagrams are imported not screenshots, if I can not see **your diagrams posted in word document and if I can not view them correctly, you will get 0.**
* If you do not have your **name in your diagrams, you will immediately get 0.**

**Case Study**

Ally runs *Tiles R Us,* a small tile company that supplies tiles and natural stones to constructor management companies. Ally employs a small team, including some office, sales, and warehouse staff. A few times a year, Ally attends trade shows and visits manufacturers to learn about new products. Ally uses an outside delivery service to deliver orders to her customers. Your team has been hired to document Ally’s requirements and recommend software for Ally to purchase. Your team has started looking at Ally’s financial records and found that Ally allows for different payment methods and would like to categorize her income and expense transactions accordingly.

Your team leader has written the following scenarios to capture Ally’s requirements.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Use Case Name** | | **Record Income Transaction** | | | | |
| Triggering Event | | Customer pays for work done | | | | |
| Brief Description | | Allows the Owner to record an income transaction | | | | |
| Actors | | Owner | | | | |
| Related Use Cases | |  | | | | |
| Preconditions | | Owner has opened the Main Menu. | | | | |
| Post Conditions | Income transaction is recorded | | | | | |
| Flow of activities | **Actor** | | | | | **System** |
|  | 1. | | | Requests to record an income transaction | | Displays a list of payment methods and prompts for selection. Prompts for amount of transaction and transaction date (defaults to the system date) |
|  | 2. | | | Selects a payment method, enters date and amount | | Displays the transaction and prompts for confirmation |
|  | 3 | | | Chooses to confirm | | Saves the transaction. |
| Exception Conditions |  Owner chooses to cancel recording income transaction. | | | | | |
|  |  | | | | | |
| **Use Case Name** | **Query Expense transactions** | | | | | |
| Triggering Event | Owner requires a list of expenses | | | | | |
| Brief  Description | Allows the Owner to review expense transactions | | | | | |
| Actors | Owner | | | | | |
| Related Use Cases |  | | | | | |
| Preconditions | Owner has opened the Main Menu. | | | | | |
| Post Conditions | Expense transactions retrieved | | | | | |
| Flow of activities | **Actor** | | | | **System** | |
|  | 1. | | Requests to query expense transactions | | Prompts for start and end date | |
|  | 2. | | Enters a start and end date | | Retrieves expense transactions | |
|  |  | |  | | that meet the date  requirements. Displays the list | |
| Exception Conditions |  | | Owner chooses to cancel querying expense transactions. | | | |

**Question 1 (worth 10 marks)**

Complete a **class diagram** to support what your team has learned so far about *Tiles R Us.*

**Question 2 (worth 20 marks)**

Complete **object level sequence** diagrams to support the above scenarios.

**Question 3 (worth 3 marks)**

Ally is considering recording the customer related to each sale. How will this change your class diagram? How will this change the scenarios and sequence diagrams? Please describe in English.

**Question 4 (worth 3 marks)**

One of Ally’s favourite suppliers offers points on purchases. Ally 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?

**Question 5 (worth 3 marks)**

Some goods and services are HST exempt? What are they? Would there be any benefits to Ally’s tile business?

**Question 6 (worth 3 marks)**

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

**Question 7 (worth 3 marks)**

*Tiles R Us* 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 3 analysts and a Project Manager. If you were the Project Manager, what Project Management Methodology would you use for this project? And why?