Defining classes Lab: part 1 and part 2

The system that Jake is looking for, must have the capability of categorizing his data by the following category classes:

Income Source

Product Type

Service Type

User Story

Financial institutions charge for electronic transactions, so I would like to identify transactions by how the client has paid. I call this income source. Eventually, I would like to classify my income transactions by income source.

Acceptance Criteria:

1. Must be able to query income source to retrieve a list of income sources

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Create an income source | | |
| Triggering Event | Client pays by a new income source | | |
| Brief Description | Allows the Owner an income source | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Income source is added and available to query | | |
| Flow of activities | Actor | | System |
|  |  | Requests to add a new income source | Displays a list of sources and prompts for income source and income source description. |
|  |  | Enters income source and description | Verifies that income source and description have been entered.  Prompts for confirmation |
|  |  | Confirms entry | Saves the income source and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel adding the income source | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Change an income source description | | |
| Triggering Event | Request to change an income source description | | |
| Brief Description | Allows the Owner to change an income description | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Income description is updated | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to query an income source | Displays a list of income sources and prompts for income source. |
|  | 2. | Selects an income source | Retrieves the income source description and prompts for updates |
|  | 3. | Updates description and requests to save | Verifies that description was entered.  Saves the data |
| Exception Conditions | * Owner chooses to cancel updating the income description | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Query all income sources and their descriptions | | |
| Triggering Event | Request for income source list | | |
| Brief Description | Allows the Owner to retrieve all income sources and their descriptions. | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | All income sources and their descriptions are retrieved. | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to query all income sources | Displays a list of income sources  Prompts to cancel |
|  | 3. | Chooses to cancel | returns to the main menu |
| Exception Conditions | * Owner chooses to cancel retrieving the income source list | | |

User Story

Eventually, I would like to retrieve total amounts of a specific type of product that I’ve purchased. Ideally, I would use this to be able to compare the pricing of purchases of product types year by year. For my purposes, a product type is grass seed and another is calcium.

Acceptance Criteria:

1. Must be able to query product types to retrieve a list of product types

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Create a product type | | |
| Triggering Event | A new type of product on the market | | |
| Brief Description | Allows the Owner to create a product type | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Product type is added and available to query | | |
| Flow of activities | Actor | | System |
|  |  | Requests to add a new product type | Displays a list of product types and prompts for product type and product type description. |
|  |  | Enters product type and description | Verifies that product type and description have been entered.  Prompts for confirmation |
|  |  | Confirms entry | Saves the product type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel adding the product type | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Query all product types and their descriptions | | |
| Triggering Event | Request for product types | | |
| Brief Description | Allows the Owner to retrieve all product types and their descriptions. | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | All product types and their descriptions are retrieved. | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to query all product type | Displays a list of product types  Prompts to cancel |
|  | 3. | Chooses to cancel | returns to the main menu |
| Exception Conditions | * Owner chooses to cancel retrieving the product type | | |

User Story

My main service types are lawn care and snow removal, but I’m branching into small constructions services and water feature services.

For that reason, service type has to have some flexibility!

Acceptance Criteria:

1. Must be able to query service type to retrieve a list of service types

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Create a service type | | |
| Triggering Event | Offering a new type of service | | |
| Brief Description | Allows the Owner to create a service type | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Service type is added and available to query | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to add a new service type | Displays a list of service types and prompts for service type and service type description. |
|  |  | Enters service type and description | Verifies that service type and description have been entered.  Prompts for confirmation |
|  |  | Confirms entry | Saves the service type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel adding the service type | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Query all service types and their descriptions | | |
| Triggering Event | Request for service types | | |
| Brief Description | Allows the Owner to retrieve all service types and their descriptions. | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | All service types and their descriptions are retrieved. | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to query all service types | Displays a list of service types  Prompts to cancel |
|  | 2. | Chooses to cancel | returns to the main menu |
| Exception Conditions | * Owner chooses to cancel query service types | | |