Defining classes Lab: part 1 and part 2

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

Expense Type

Product Type

Service Type

User Story

Once a month, I try to figure out where my money is going. I usually download my withdraws from my bank account into excel and try to figure it out. I’d like the new system to allow me to select an expense type when I enter it.

Acceptance Criteria:

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

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

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| --- | --- | --- | --- |
| Use Case Name | Change an expense type description | | |
| Triggering Event | Owner wishes to update the expense type description | | |
| Brief Description | Allows the Owner to change an expense type description | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Expense type is change and available to query | | |
| Flow of activities | Actor | | System |
|  |  | Requests to change expense type | Displays a list of expense types and prompts to select an expense type. |
|  |  | Selects Expense type | Retrieves the expense type description and prompts for updates |
|  |  | Updates description and requests to save | Saves the expense type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel changing the expense type | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete an expense type | | |
| Triggering Event | Owner wishes to delete an expense type | | |
| Brief Description | Allows the Owner to delete an expense type | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Expense type is deleted | | |
| Flow of activities | Actor | | System |
|  |  | Requests to delete expense type | Displays a list of expense types and prompts to select an expense type. |
|  |  | Selects Expense type | Retrieves the expense type description and prompts for delete |
|  |  | Chooses to delete | deletes the expense type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel deleting the expense type | | |

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

Acceptance Criteria:

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

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| --- | --- | --- | --- |
| 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 |
|  | 1. | Requests to add a new product type | Displays a list of product types and prompts for product type and product type description. |
|  | 2. | Enters product type and description | Verifies that product type and description have been entered.  Prompts for confirmation |
|  | 3. | Confirms entry | Saves the product type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel adding the product type | | |

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| --- | --- | --- | --- |
| Use Case Name | Change a product type description | | |
| Triggering Event | Owner wishes to update the product type description | | |
| Brief Description | Allows the Owner to change a product type description | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Product type is change and available to query | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to change product type | Displays a list of product types and prompts to select a product type. |
|  | 2. | Selects product type | Retrieves the product type description and prompts for updates |
|  | 3. | Updates description and requests to save | Saves the product type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel changing the product type | | |

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| --- | --- | --- | --- |
| Use Case Name | Delete a product type | | |
| Triggering Event | Owner wishes to delete a product type | | |
| Brief Description | Allows the Owner to delete a product type | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | product type is deleted | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to delete product type | Displays a list of product types and prompts to select a product type. |
|  | 2. | Selects product type | Retrieves the product type description and prompts for delete |
|  | 3. | Chooses to delete | deletes the product type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel deleting the product type | | |

User Story

My services range from wound care to running errands. My clients book time with me and my services are based on their needs.

Acceptance Criteria:

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

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| --- | --- | --- | --- |
| 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, description, price/hour. |
|  | 2. | Enters service type, price/hour and description | Verifies that service type, price/hour and description have been entered.  Prompts for confirmation |
|  | 3. | Confirms entry | Saves the service type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel adding the service type | | |

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| --- | --- | --- | --- |
| Use Case Name | Change a service type description and price per hour | | |
| Triggering Event | Owner wishes to update the service type description and price per hour | | |
| Brief Description | Allows the Owner to change a service type description and price per hour | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | service type is change and available to query | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to change service type | Displays a list of service types and prompts to select a service type. |
|  | 2. | Selects service type | Retrieves the service type description and price per hour and prompts for updates |
|  | 3. | Updates description and price per hour and requests to save | Saves the service type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel changing the service type | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete a service type | | |
| Triggering Event | Owner wishes to delete a service type | | |
| Brief Description | Allows the Owner to delete a service type | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | service type is deleted | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to delete service type | Displays a list of service types and prompts to select a service type. |
|  | 2. | Selects service type | Retrieves the service type description and prompts for delete |
|  | 3. | Chooses to delete | deletes the service type and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel deleting the service type | | |