Defining Classes Labs – Part 1 and Part 2

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

Payment Type

Location

Product Type

User Story

Eventually, we would like to retrieve total amounts of income paid for by credit card, debit card, paypal and cash. We call this Payment Type.

Acceptance Criteria:

1. Must be able to query Payment Type to be able to select income transactions.

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

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| --- | --- | --- | --- |
| Use Case Name | Change a payment type description | | |
| Triggering Event | Request to change a payment description | | |
| Brief Description | Allows the Owner to change a payment type description | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Payment type description is updated | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to change a payment type | Displays a list of payment types and prompts for payment type selection. |
|  | 2. | Selects a payment type | Retrieves the payment type 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 payment type description | | |

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| --- | --- | --- | --- |
| Use Case Name | Delete a payment type | | |
| Triggering Event | Request to delete a payment type | | |
| Brief Description | Allows the Owner to delete a payment type | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Payment type is deleted | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to delete a payment type | Displays a list of payment types  Prompts for selection |
|  | 2. | Selects a payment type | Retrieves the payment type and description. Prompts to delete |
|  | 3. | Chooses to delete | Deletes the payment type. |
| Exception Conditions | * Owner chooses to cancel deleting the payment type | | |

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

User Story

With our expansion, our list of locations is growing. We would like to record the address and notes about each location.

Acceptance Criteria:

1. Must be able to query locations.
2. Must be able to record locations.

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| --- | --- | --- | --- |
| Use Case Name | Create a location | | |
| Triggering Event | A new location | | |
| Brief Description | Allows the Owner to create a location | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Location is added and available to query | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to add a new location | Displays a list of locations and prompts for a location name, address and notes |
|  |  | Enters the location name, address and notes | Verifies that name and address have been enter. Generates a unique location identifier. Displays location.  Prompts for confirmation |
|  |  | Confirms entry | Saves the location and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel adding the location | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Change a location | | |
| Triggering Event | Request to change a location | | |
| Brief Description | Allows the Owner to change a location | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | location is updated | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to change a location | Displays a list of locations and prompts for location selection. |
|  | 2. | Selects a location | Retrieves the location’s name, address and notes |
|  | 3. | Updates the location and requests to save | Saves the data |
| Exception Conditions | * Owner chooses to cancel updating the location | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete a location | | |
| Triggering Event | Request to delete a location | | |
| Brief Description | Allows the Owner to delete a location | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | location is deleted | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to delete a location | Displays a list of locations  Prompts for selection |
|  | 2. | Selects a location | Retrieves the location. Prompts to delete |
|  | 3. | Chooses to delete | Deletes the location |
| Exception Conditions | * Owner chooses to cancel deleting the location. | | |

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

User Story

To allow for easy retrieval of products, we would like to organize our list of products by product type.

Acceptance Criteria:

1. Must be able to query product types.
2. Must be able to record a new product type.

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| --- | --- | --- | --- |
| Use Case Name | Create a product type | | |
| Triggering Event | Business decides to add a new type of products | | |
| 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 description |
|  |  | Enters product type and description | Verifies that product type and description have been entered. Displays product type.  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 | Change a product type | | |
| Triggering Event | Request to change a product type | | |
| Brief Description | Allows the Owner to change a product type | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | location is updated | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to change a product type | Displays a list of product types and prompts for product types selection. |
|  | 2. | Selects a product type | Retrieves the product type |
|  | 3. | Updates the product type and requests to save | Saves the data |
| Exception Conditions | * Owner chooses to cancel updating the product type | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Delete a product type | | |
| Triggering Event | Request 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 a product type | Displays a list of product types  Prompts for selection |
|  | 2. | Selects a product type | Retrieves the product types. Prompts to delete |
|  | 3. | Chooses to delete | Deletes the product type |
| Exception Conditions | * Owner chooses to cancel deleting the product type. | | |

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