OMIS 651 – Spring 2022  
Assignment 2: Create a Data Flow Diagram  
Available Date: 3/3/2022  
Due Date: **3/10/2022** at **11:59 PM** on **Blackboard**  
Instructor: Amin Vahedian

**Mary’s Electrical Supplies and Services**

For the business description, please see Exercise 1, on Blackboard.

**A Business Process: Perform Electrical Service**

When a customer requests service from the shop, Mary makes an initial appointment with the customer. Mike goes to the appointment and develops a plan for the work, which determines what supplies are needed and how long the work will take. He then makes the appointment with the customer to perform the work. At the end of each day, Mike goes to the shop and checks for all the supplies he needs for all the work he planned that day. If an item is not found in the shop, he adds it to the purchase list with a due date that is before the service appointment. On the day of the service appointment, Mike loads all the supplies to the van and takes them to the location where he performs the service.

**Task:**

Create a Data Flow Diagram for a system that provides the following use cases:

* Make a service appointment
* Add an item to purchase list

***Note:*** *purchase lists exist within a separate system called “Inventory System.”*

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| **Use Case Name**: Make a service appointment | **ID**: UC-1 | **Priority**: High |
| **Actor**: Store Manager, Electrician | | |
| **Description**: | | |
| **Trigger**: User decides to make a service appointment | | |
| **Type**: External | | |
| **Preconditions**: User is authenticated as the store manager or | | |
| **Normal Course**:   * Specify date and time * Specify appointment name * Specify customer name * Specify customer address * Specify the requested service * Confirm appointment information | | |
| **Postconditions**: There is an appointment in the specified information | | |
| **Exceptions**: | | |

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| **Use Case Name**: Add an item to the purchase list | **ID**: UC-2 | **Priority**: High |
| **Actor**: Electrician | | |
| **Description**: | | |
| **Trigger**: User decides to add an item to a purchase list | | |
| **Type**: External | | |
| **Preconditions**:   * Electrician is authenticated * A purchase list exists | | |
| **Normal Course**:   * Specify item name * Specify quantity * Specify deadline to purchase * Confirm entry | | |
| **Postconditions**: There is a new item added to the list with correct information | | |
| **Exceptions**: | | |

**Answers:**

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| *<<Put your context Diagram here>>* |
| *<<Put your level 0 diagram here>>* |
| *<<Put all level 1 diagrams here>>* |