**Assignment 3 – INVENTORY MANAGEMENT**

**a. Choose business area:**

The chosen area for which we want to build our inventory management system is a retail business for electronic goods. Electronic goods retailer is one who sells electronic items like mobile phone, laptops, etc.

**b. Introduction of business operation**

Our client is into management of the electronic goods that they get from the wholesalers, i.e. to store them in their physical warehouse, to keep a track of them, as to how much is sold and how much is left. In order to automate this inventory management for our client we have come up with inventory management system which helps our client in viewing all the items in the inventory, searching the inventory by product details like productid, product, cost and manufacturers, inserting a new record to the inventory, updating the inventory and deleting from it.

**c. identify IMS features (problem analysis)**

1. Add / insert into inventory system

2. View the entire inventory

3. Sort the inventory by product ID, product, cost and manufacturers.

4. Update the inventory

5. Delete the inventory.

**d. collect features/functions of this IMS (Requirements elicitation, SW specification)**

Features collected from the requirements documents and discussions.

e. design high and/or low level // e.g. UML, flow chart etc.

Flow Chart:

For Inserting Product details into IMS:

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Description automatically generated

For Viewing Product details in the IMS:

A close up of text on a white background

Description automatically generated

For searching Product details in the IMS:

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Description automatically generated

For update Product details in the IMS:

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Description automatically generated

For delete Product details in the IMS:

A close up of a map

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f. Future Scope

We can connect Database in the future instead of using array structure. The company can add additional details about the product.

**g.** Self Evaluation

We could have tried using ArrayList and HashMap and make the code work.We could have researched more and make code more optimal from our side.

**Gantt chart - Project scheduling**

