# CST2355 – Database Systems Group Lab Assignment 1

## Topic: Inventory Management System for skinxbeautyph

### Title

Skinxbeautyph is a small business in the Philippines that sells skincare products in multiple channels.

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| Direct Sales | A screenshot of a social media account  Description automatically generated | A screenshot of a phone  Description automatically generated |

### Purpose

skinxbeautyph needs an inventory management system to manage their inventory to monitor stocks taken out and added in the inventory. The inventory management system will help skinxbeautyph to keep track of products that need to be ordered from suppliers and the ending inventory of the shop. Moreover, the inventory management system will help the shop compare its actual inventory compared to the inventory reflected in the inventory management system to prevent pilferage and untracked product loss of their skincare inventory.

The inventory management system shall also produce management information reports such as current inventory by skincare brand and by supplier.

### ERD Diagram

A screenshot of a computer screen

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## Section 1: Introduction:

The real-life relationships that will be implemented using database relationships are:

1. ‘**hierarchies’**: each supplier can be associated to many brands as a supplier, and each brand can be associated to many products(skincare items)
2. ‘**is-a**’: skincare items are grouped into sub-types, specifically by Soap, Sunblock and Cream.
3. ‘**contains**’: Suppliers contain different types of brands, and Brands contain different types of products.
4. ‘**related-to**’: A skincare brand can be associated with many skincare products, while a skincare product can be associated with only one skincare brand. A supplier can be associated with many skincare brands and skincare products. Skincare brands and skincare products can be associated with many suppliers.

## Section 2: Group Membership and Tasks:

### Group Member

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### Tasks

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| --- | --- | --- |
| Andres Julian Rivera Ariza | Johann Kenric See | Haebin Yoon |
| Data logistics  Demo/Documentation | Front End  Demo/Documentation | Physical model  Demo/Documentation |