Art Supply

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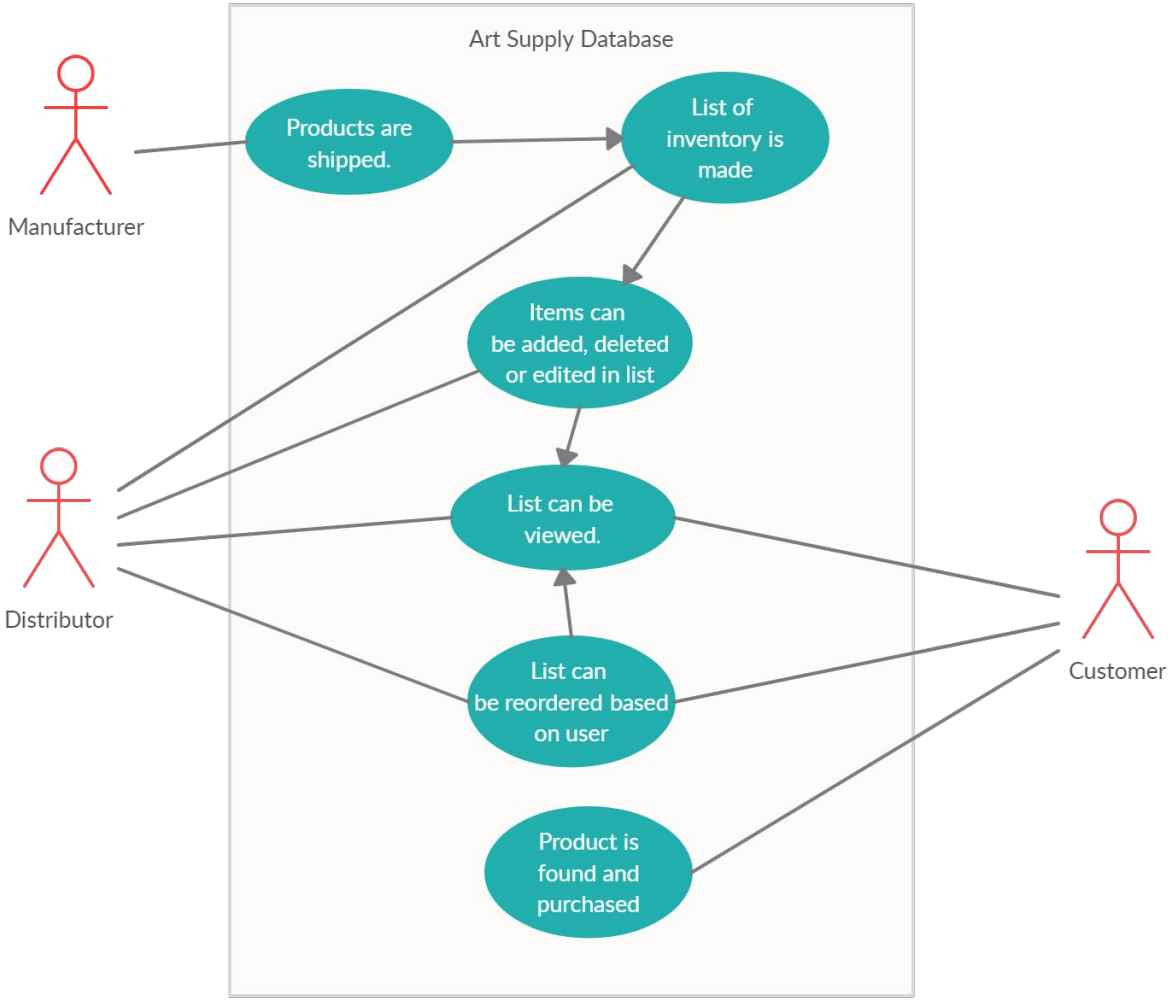
System Description

- Web Application
  - Contains multiple pages that contain different tables from our database.
    - Product page
    - Order page
    - Detailed product page
  - Can sort, insert, update, and delete from the tables through the web application.

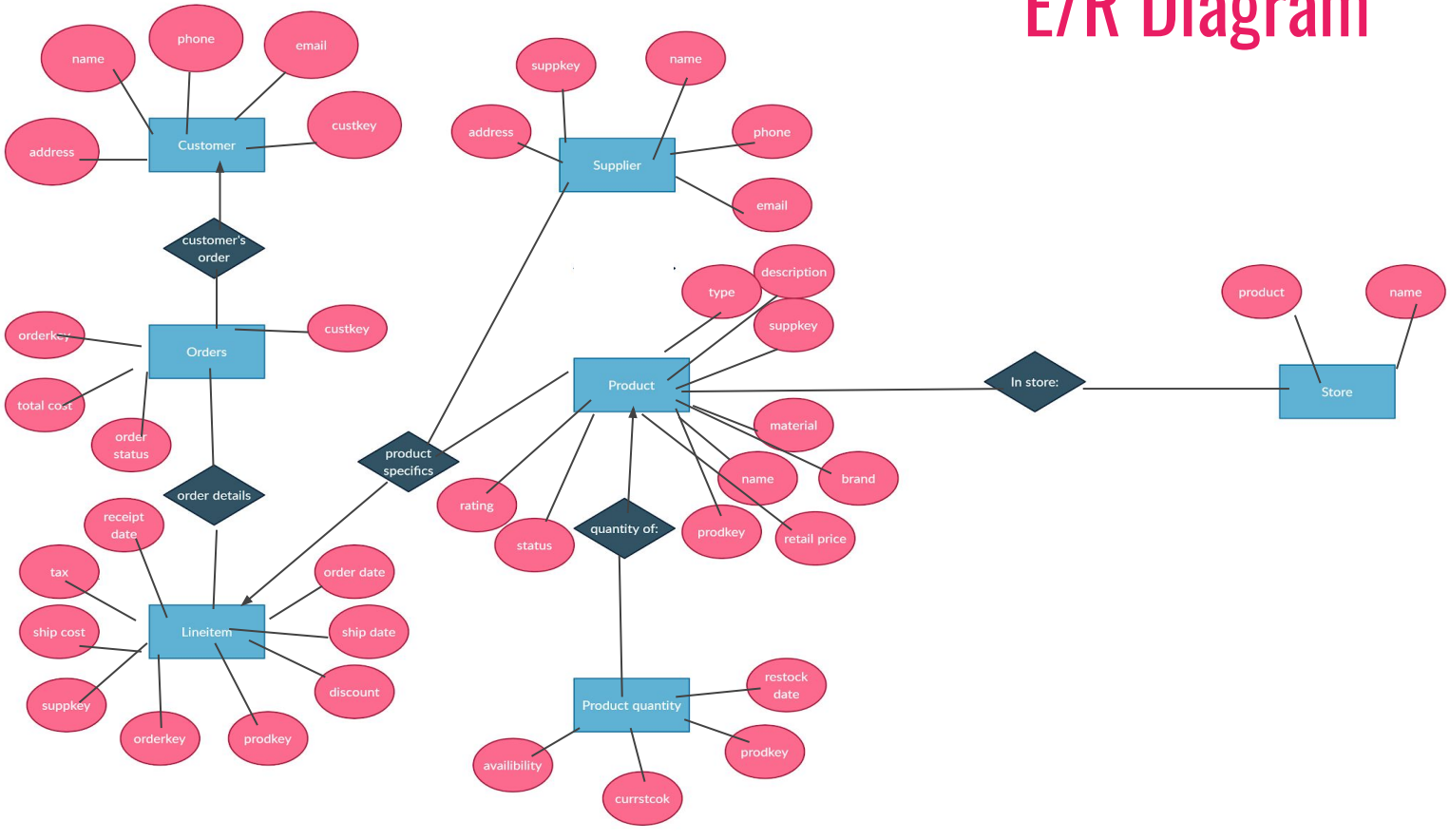
Use-Case Description

- The user will be able to input, edit or delete the products obtained from the supplier into the database and create a viewable list with details.
- The database will be able to recognize that the user wants all of the information stored relating to the input given and display the information based on the order selected.

Use-case Diagram



E/R Diagram


name
phone
email
address
Customer
custkey
customer's order
orderkey
Orders
custkey
total cost
order status
order details
receipt date
tax
order date
ship cost
Lineitem
ship date
discount
suppkey
orderkey
prodkey
suppkey
name
address
Supplier
phone
email
product specifics
type
description
suppkey
Product
material
name
brand
rating
status
quantity of:
prodkey
retail price
In store:
product
name
Store
Product quantity
restock date
availibility
currstcok
prodkey

Relational Schema

- Customer
  - PK:c_custkey, c_name, c_phone, c_email, c_address
- Orders
  - PK:o_orderkey, FK:o_custkey, o_totalcost, o_orderdate, o_orderstatus
- Product
  - PK:p_prodkey, p_name, p_type, p_material, p_brand, p_rating, p_status, p_retailprice, p_description
- ProductQuantity
  - pq_prodkey, pq_currstock, pq_restockdate, pq_availibility
- Supplier
  - PK:s_suppkey,s_name , s_phone, s_email, s_address

Relational Schema

- Lineitem
  - l_suppkey, l_orderkey, l_productkey, l_discount, l_tax, l_shipcost, l_shipdate, l_receiptdate
- Store
  - st_name, st_product
- In-store
  - storeName, productName
- Order details
  - PK:odSuppkey, odOrderkey

Implementation Details

- IDE: Visual Studio Code and SQLite Studio.
- Other: React.js, Bootstrap, Node.js.
- Languages: SQL, Javascript, HTML, CSS.
- Database: Made our own (Used well-known brands and store names).

Github Repository

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https://github.com/sarahlee435/CSE111Project

Demo

Questions?