



Barcode Reader Database and Inventory System

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System Description

- Our project will keep track of a store's inventory
- Admin Can Update Inventory Product Amounts, Update Product Price, Add New Products, Or Delete Existing Products
- Inventory Clerk Can Update Inventory Product Amounts or Lookup Unit Price
- Git: <https://github.com/adaPlu/Barcode-Reader-CSE111>

Use-case Details

Admin and Inventory Clerk Use Cases:

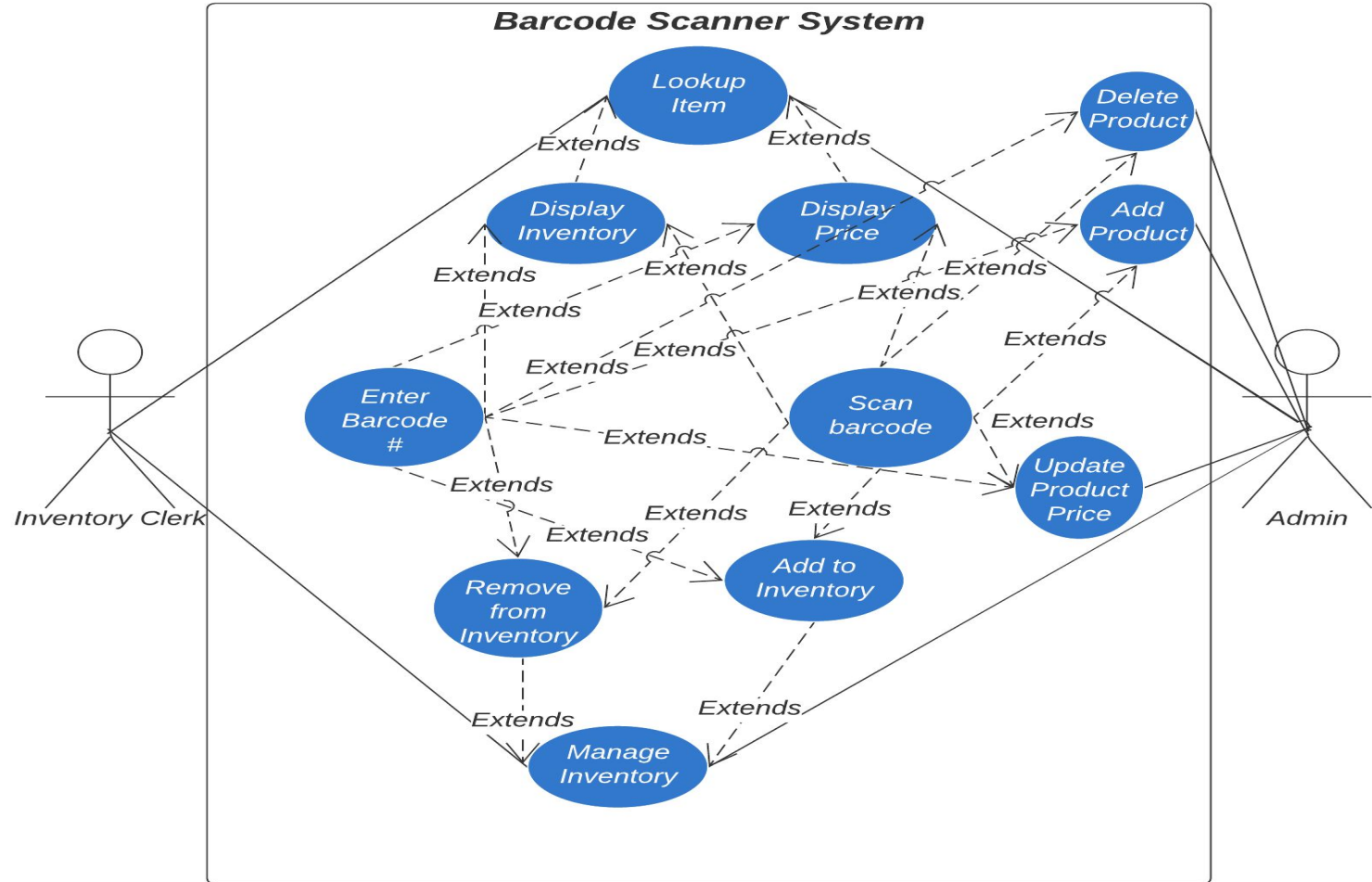
- Look Up Item
 - Entry Condition: Click Look Up Item
 - Scan Item
 - Select Price or Inventory
 - Display Price or Inventory From Database
 - Exit Condition: Click Exit
- Manage Inventory
 - Entry Condition: Click Manage Inventory
 - Scan Item
 - Select Add or Remove
 - Enter Amount to be Added or Removed
 - Edit Inventory Amount in Database
 - Exit Condition: Click Done
- Scanning
 - Entry Condition: Manage Inventory Scan/Look Up Item Scan
 - Scan Item
 - Exit Condition: Item Scanned

Use-Case Details Cont.

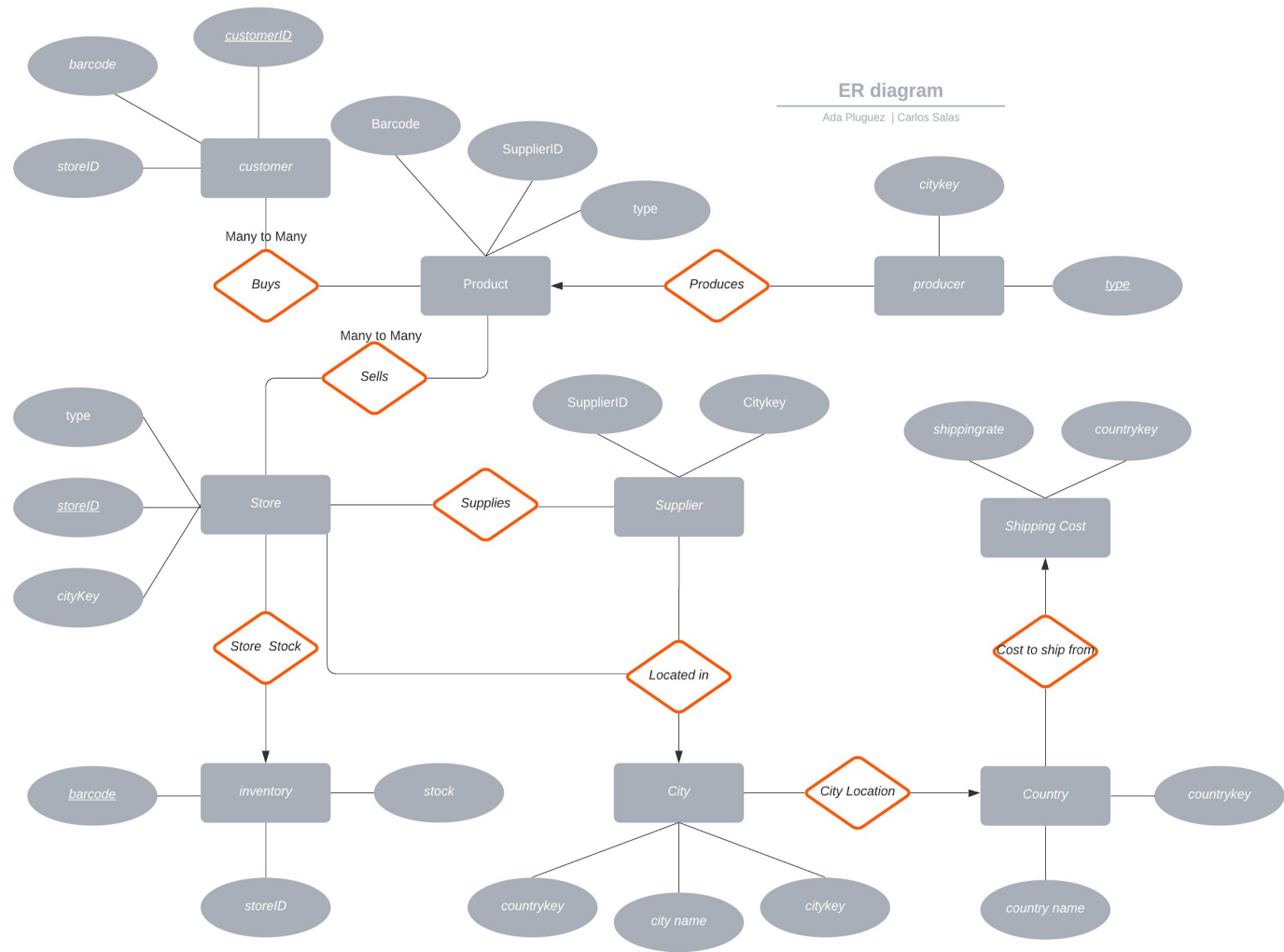
Admin Only Use Cases:

- Update Price
 - Entry Condition: Click Update Price
 - Scan Item or Enter bar Code
 - Enter New Price
 - Change Price in Database
 - Exit Condition: Click Done
- Add Product
 - Entry Condition: Click Add Product
 - Scan Item or Enter Barcode
 - Enter Product Type
 - Enter SupplierID
 - Enter Amount of Product Received
 - Add Product to Database
 - Exit Condition: Click Done
- Remove Product
 - Entry Condition: Click Remove Product
 - Scan Item or Enter Barcode
 - Remove Product From Database
 - Exit Condition: Click Done

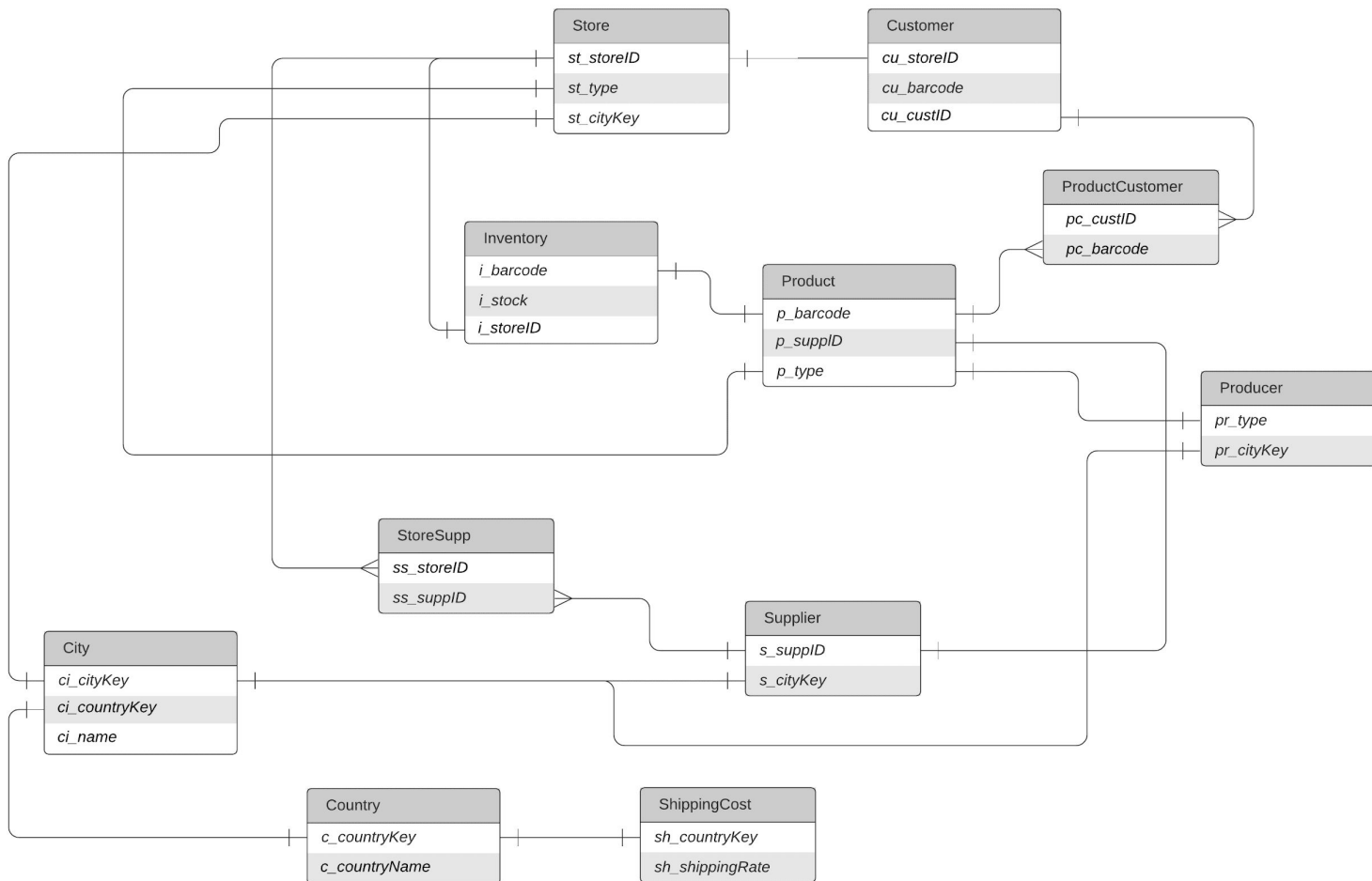
Use-case Diagram



E/R Diagram



Relational Schema



Tables

Inventory

- i_barcode INT
- i_stock INT
- i_storeID INT

Producer

- pr_type VARCHAR
- pr_cityKey INT
- pr_shippingRateKey INT

Supplier

- s_supplierID INT
- s_cityKey INT
- s_shippingRateKey INT

Product

- p_barcode INT
- p_supplierID INT
- p_type VARCHAR

Customer

- cu_storeID INT
- cu_barcode INT
- cu_customerID INT

Store

- st_storeID INT
- st_cityKey INT
- st_type VARCHAR

Shipping Cost

- sh_countryKey INT
- sh_shippingRate DECIMAL

Country

- c_countryKey INT
- c_name VARCHAR

City

- ci_cityKey INT
- ci_countryKey INT
- ci_name VARCHAR

StoreSupp

- stu_storeID INT
- stu_supplID INT

ProductCustomer

- pc_custID INT
- pc_barcode INT



Thank You