Project Task #3 – “Final” Design

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Mom and Pop Pet Shop

Customer Entity

The Mom and Pop Shop is our customer. They are a small town family pet store that sells adoptable animals, food, and accessories. We, Group F, are creating a POS (point of sale) system to be used on their cashier registers.

User Groups

* Administrative :

This is the managerial level.

* + Has “God” like access in the system
    - Create Employee
    - Delete Employee
    - Audit Trail
      * Transactions
      * Inventory worth
      * Purchase Orders
    - Inventory
      * Add Product
      * Delete Product
      * Manually update inventory
  + All the options the Employee has well
* Employee

This is the lowest level it can go.

* + Has basic access
    - Log In
    - Change Password
    - Item Searching
    - Shopping Cart
    - Apply discounts
    - Receive Inventory

Data Elements

* Employee
  + ID (String, restricted to numbers)
  + Password (alphanumeric)
  + Admin (boolean)
* Item\_Price
  + ID\*
  + Cost
  + Markup %
  + Discount %
* Item\_Inventory
  + ID\*
  + Number on Hand
  + Minimum on Hand
  + Ideal Amount
* Item\_Category
  + ID\*
  + Category
  + Category Discount
* Item\_Name
  + ID\*
  + Name
* Audit\_Record
  + Audit\_Trans\_ID\*
  + Type
    - Add/Remove Employees
    - Update Employee Info
    - Add/Remove Products
    - Discounts
    - Stocking
    - Price Changes
    - Sales
    - Transactions
    - Logins/Offs
    - Audit Log Accesses
    - Purchase Orders
  + Employee
  + Date

Reports

* Transactions
  + Total
  + Employee
  + Date
  + Items
  + Discounts (if applied)
  + Amount paid
* Inventory
  + UPC/Sku #
  + Name
  + Mark-up %
  + Number on hand
  + Ideal number on hand
  + Minimum to keep on hand
  + Total worth
  + Category
  + Cost of item
  + Category Discount
  + Item added
  + Item deleted
* Purchase Order
  + Items needed
  + Minimum currently on hand
  + Cost of each item
  + Total cost for entire purchase order
  + Email address to send to
* Employee
  + When an employee is added
    - Username
    - Password
    - First name
    - Last name
    - Admin rights
    - Email Address