**Inventory Management System Final Report**

**Atif Ali**

**LIS 4613**

**Project's Development Process**

A screenshot of a computer code

Description automatically generatedThis project involved designing an inventory system using MySQL Workbench. I created a database named ‘inventory\_fp’ to store the tables for each tech-related item. I created tables named Inventory for basic item information that contained the categories serialID as the primary key, Name, Type, Brand, and Price. I created a Supplier table with serialID as the foreign key referencing the primary key from ‘Inventory’, supplierID, and Supplier\_Name. The third table was serialID also referencing the primary key in the first table, and location\_type (office, classroom, lounge, etc.).

A screenshot of a computer code

Description automatically generated

A screenshot of a computer code

Description automatically generated

A screenshot of a computer code

Description automatically generated

The next step is to create the master page that held the two input forms. The first being the adding form that let users add tech items to the database. This form contained the text fields for Name, type, brand, price, supplier, and location.

**Design Decisions**

I wanted to keep the website simple for now, so I only had two major areas of information, The adding technology form at the top underneath a Header that says “Inventory Management System". Underneath that form is a search bar that should be populating the table with every key that is pressed.

**Challenges Faced**

The biggest challenge faced was trying to figure out how to populate the table given the search bar function. Every key pressed should be taking a match out of Name, Type, Brand, or Price and using it to find the appropriate serialIDs that are unique to each technology.

**Overcoming Challenges**

**Necessary Setup Instructions**