**Inventory Management System Final Report**

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**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

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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, with minimal styling methods. 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. The buttons are light and easily seen with the proper CSS.

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**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**

I implemented a performSearch function that took the value of the serialID in the inventory table and populates the body of a table with serialID, Name, Type, Brand, and Price of that specific item. I am having trouble adding this form information to the supplier and location tables, however.

**Necessary Setup Instructions**

To start the server, node.js needs to be run through the terminal and then the website can be used.

There are two forms: the first includes text fields that add the values to the database tables upon clicking submit or clearing the text fields to start fresh.

Below that is the second: a search bar that automatically pulls the data from the inventory\_fp database. Each record also has an update and delete button. The update button sends the user to an update-item page that contains the fields for only the inventory table: Name, Type, Brand, and Price. The delete button deletes that record with the same serialID from the inventory table in the inventory\_fp database.