Inventory Management Tool

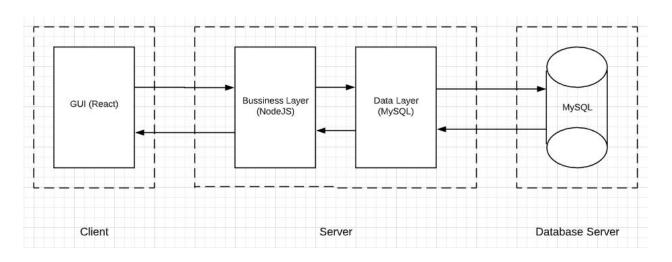
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1. Overview:

This is an inventory management system which will help companies to manage the stock of products. In a general sense, the inventory system will work by allowing the user to manage the stock.

2. System Environment:

A. A Structure Diagram of the System:



B. Hardware & Software:

- Back-end: **Node.js** (Javascript runtime environment), **Express.js** (Web application framework for node.js)
- Front-end: **React** (Javascript library for building UI), **Redux**
- Database: MySQL Workbench
- Misc: Any type of web browser (Chrome/Firefox/etc), Linux or Windows environment, and Wifi connect capability
- Visual Studio Code/Atom
- Git & Github
- Slack

C. Programming/Application languages used:

Front-end: CSS, JavascriptBack-end: Javascript

3. Functional Requirements:

A. Functionality/Features:

User also can decrease the quantity of the item or remove it from the stock. They also can see a graph showing the status of a particular item (increase or decrease in terms of quantity) at a specific time. The user can edit the price of a specific item. The search function will be implemented to help the user find the item by type of the product. The users also need to login with a given account in order to have access to the management system.

B. <u>User Usage:</u>

- I. Scenario: User login
 - 1/ Access to the login page
 - 2/ Fill the the id and password (Account will be given in this case)
 - 3/ Navigate to the homepage will account logged in
- II. Scenario: Searching item
 - 1/ Write the type of item that user want to find in the search bar
 - 2/ A list of items will be displayed based on the type of items.
- III. Scenario: Add/ Decrease quantity of items
 - 1/ Search for the item that user want to add more quantity.
 - 2/ Edit the quantity.
 - 3/ Click the update button
- IV. Scenario: Remove Item
 - 1/ Search for the item that needs to be removed
 - 2/ Click the remove button
 - 3/ Click the update button
- V. Scenario: View report
 - 1/ Search for the item
 - 2/ Click view report button
 - 3/ A graph will be displayed

4. Non-functional Issues:

1. GUI:

- -Web Application
- -Build by React & Material UI, CSS

2. Security & Access control:

Authorization for logging in