Plumbus Labs Inc. Inventory System

Synopsis**:**

This system tracks technological units owned by Plumbus Labs Inc. and used by its employees. This system is designed to keep an inventory of all such items, which can be added, searched, edited or browsed using a web browser. Items can be searched by any of their attributes including asset tag, service number, model, etc. In addition to this, employees can check out these tools, and the system tracks information about the employee as well. An employee can also search the inventory system by employee, or any employee attribute. This allows the user to easily identify which inventory units are being used by a department, or which items are at a cube. This will result in a page that lists every item that is checked out by this employee. Not every item is checked out by an employee, and no two employees can check out the same item at the same time. Once an employee checks an item back in, however, it can be checked out by a separate employee. The check in and check out dates are recorded in the items history, which can be viewed from an items page. Items that are checked in or items that have never been checked out by an employee reside in one of several warehouses. This is all is accessed through a web portal. IT staff will create accounts using an email address and password, and only these users have the ability to add, remove, or modify items. Employees cannot be edited from this interface.

Functionality:

* Create IT user account/sign in
* Search inventory by inventory attributes
* Add/Remove items
* Edit existing inventory
* Check out or Check in items
* View item attributes
* View item checkout history
* Search inventory by employee attributes
* Sort inventory search results

Stakeholders:

This system is used by the IT professionals of Plumbus Labs Inc. to keep track of the tools and equipment used by the employees of Plumbus Labs Inc.

Technological Requirements:

This system frontend will be a webpage running on HTML, while the backend will run on either C# or Java (it’s been several years since I’ve coded in either). The database will be either a simple instance of SQL Server, or MySQL, both of which I’ve had some limited experiences with, although it’s also been a while. All code will be published to GitHub.

# Database:

