Inventory Applet
Requirements Document

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Executive Summary

Dr. McHenry is a world-renown eye-surgeon with patients from all over the world who travel to Dallas, Texas specifically for his medical expertise. Dr. McHenry has amassed a large volume of equipment and supplies over the years which are currently stored in warehouses around the city. The purpose of this mini-applications is to allow his office staff to inventory all the products in these warehouses as rapidly as possible. The tax deadline is looming, so speed of development and data entry are critical to the success of this project.

Project Scope

- Provide a mutli-user application that allows for inventory management.
- Build into the system a "roaming" (Access-only) component that uses barcode-scanning to allow items to be labeled and scanned "in-the-field". The roaming component is to be installed on a laptop with MS Access 2010.
- Include a one-click means of synchronizing all the data gathered from the roaming laptop back to the central server and vice versa.

Requirements

- Microsoft Access 2010 (32-bit) will be used for the frontend component. This piece will provide the screens, reports and navigation of the primary inventory system, and will be deployed on no more than 6 workstations on-site at Dr. McHenry's office on 1341 W. Mockingbird, Dallas, TX 75247.

- Microsoft Access 2010 (32-bit) will be used to house the central inventory database. This will ensure there is a limit of 5 concurrent users in the inventory application at any given time. Jester Solutions assumes no liability for illegal copies of software in the production environment.

- The inventory data is limited to these record types;
    `[inventory_items], [item_categories], [locations], [users]`

- The project will include one (1) report, "Inventory Items".

- Both the primary application and the roaming Access-only component will include the functionality and use of a barcode scanner. The brand of scanner to be used is unknown at this time. However, the need to allow for a laptop computer, loaded with the roaming Access-only component, is understood and will be implemented with the delivered system. Barcode scanning will also be enabled on the primary system.

- The application will provide security in the form of two-tier username and password authentication. This is limited to allowing all users access who have a valid username and password. However, non-administrators will be restricted from adding, editing, or deleting inventory levels or inventory items. Non-administrative users will be allowed to view screens and reports.

- The inventory project will make use of pre-printed serialized barcode labels, to be purchased from an as-of-yet unknown vendor. The task of printing barcode labels has been investigated and ruled-out as part of the scope of this project. The type of barcode scanner and the standards to which it adheres must be determined prior to project development commencing.

- **Data-sync component**
  This component will be a bi-directional component. All inventory items will be time-stamped to help automate the determination of which records are overwritten, deleted, or remain the master. At the end of the synchronization process, both the server database and the roaming laptop should be mirror copies of one another. Any data entered and maintained by personnel in the office before, during, or after the data gathering in the field is to be preserved and integrated during the synchronization process.