PARTS System Prototype

Everyone would start the PARTS system from an icon on their desktop. The icon could look similar to the following.

After double clicking the PARTS icon, a login screen will display, in which the individual will enter their userid and password for the system.

Upon login, the individual will be presented with a selection window which will enable them to search for specific part records or to view all part records or all suppliers and their buyers. This window enables the user to search for a record by part number, supplier, or buyer. To search, the individual will select the appropriate option, type the text to search for, and click the search button. Alternatively, the individual can select to view all part records or to view all suppliers and their assigned buyers, by clicking the appropriate button.
If the individual selected to search by a part number, supplier, or buyer, they will then be presented with a window displaying the current record for their selection. This window is view only. The date the record was last modified and who modified the record are displayed. Additionally, it shows the number of days since the last change. The individual has the ability to scroll right and left to see all the fields for the record.

![Figure 3. Current Part Record Window.](image)

If the individual wants to see the change history for this record, they would click the “Display History for Selected Part” button. Upon choosing this button, they would be presented with the History window, which displays all the history for this record. A complete picture of the record after each change is displayed, including when it was changed and the individual that made the changes. The current part window is kept open in the background for reference.

![Figure 4. History Window.](image)
If instead of choosing to view history on the Current Parts Record window (Figure 3), one needed to change the data on the current record, the button “Change Selected Record” would be chosen. This button would only be available for those individuals who had been granted update access when their userid was setup in the system. The Change Record window (Figure 5) would be displayed, prepopulating all fields with the current values. The individual can change any of the values that are appropriate. When the individual chooses the “Update” button, a copy of the record prior to the changes will be written to the history table and the new changes will be written to the current parts table.

Figure 5. Change Record Window.

On the Current Parts Record window (Figure 3), one could instead select to add a new record, by clicking the “Add New Record” button. The Add New Record window (Figure 6) will display, with the current date populated in the “Date Last Modified” field and the name of the current user logged in populated in the “Last Modified By” field. When complete with entering the data, the user will click the “Update” button.

Figure 6. Add New Record Window.
On the Current Part Record window (Figure 3), if the “Show Buyer” button would be selected, the Buyers Window (Figure 7) will display showing the buyer that is assigned to the supplier that was on the part record.

![Buyers Window](image)

Figure 7. Buyers Window.

On the initial Selection window (Figure 2), if one selected the “Show All Suppliers and Buyers” button, the same Buyers window displayed in Figure 7 would display. However, in this instance instead of showing one record at a time, a list of all the buyer/supplier relationships would display.

On the initial Selection window (Figure 2), if one selected the “Show All Parts Records” button, the same Current Parts window displayed in Figure 3 would display. However, in this instance all current records would be displayed. The same buttons available in Figure 3 would be available here. The individual would select the record they are interested in prior to choosing one of the buttons, such as viewing history.

On the initial Selection window (Figure 2), if one tried to search for a part number and the results did not find that part number in the current parts records, then one could choose to search the history records for that part number. Enter either a part number, supplier, or buyer and choose the “Search History” button. It will display the same history screen shown in Figure 4, but with the results of the search that was entered.

One or more individuals will be designated as the system administrator of this system. These individuals will have the capability to add new users to the system for access, and modify existing users. They will have a second icon that will launch the screen to add/modify users. The icon could be similar to the following.

![Add/Modify Users](image)

The User Security window is displayed in Figure 8. All users are displayed, and can be edited. A new user can be added via the bottom row. The user group is selected via a drop down box of predefined values, such as ReadOnly, Update, an SysAdmin (meaning can add/modify users). The list of possible values is defined in one of the database tables, and can be added to, if needed.
Four standard reports will be built with the system initially. These reports will include: a history of changes for a specific part, a history of changes made by a specific user, a history of changes within a specific date range, and a history of changes related to a specific supplier. Additionally, Microsoft Access provides an easily learned interface for creating additional reports – including a wizard to assist. This will enable individuals to create additional reports easily.