# Functional requirements

Note, some of these points will need to be clarified with the client. For example, do they want to use a handheld barcode scanner or use a barcode scanning app in a smart phone?

## Essential

* Administrative users must be able to create and edit equipment categories. This function is currently not working in the Ruby version, so it must be fixed.
* Users (staff) must be able to login and create, update, and disable inventory items.
* Public users must be able to search for and view inventory details, but not modify the items.
* Display screens for different types of inventory items have different visible fields. Users can modify which fields are displayed. This feature must be retained.
* Keep the flexible search capability.
* Keep the link between TRIUMF inventory system’s PO numeric field and an external administrative database which tracks purchase orders for the Lab.

## Important

* Add data from another inventory on an Excel spreadsheet to the database. (Note, this means the database must be scalable).
* Add the ability to scan a variety of barcode types into the database. This can be either by a handheld barcode scanner or through an iPhone or Android device.
* Mobile responsiveness so equipment inventories can be searched and updated through mobile devices.
* Add functionality to edit items from table/list view (instead of having to go to item page)

## Nice-to-Have

* There is a lot of wasted space on the item display screens. Redesign these so they look better and are more readable.
* Change user documentation to reflect any changes to the features.
* Improve security of the database.