

Project #4 Outline - Batch Inventory Adjustment Uploader

Project ID: OCT14-BTCINV

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Date: 10/21/2014

Website(s) to Deploy Project to: [omitted].com

Objective:

To create a back-end tool which will allow us to make batch inventory adjustments by uploading a spreadsheet.

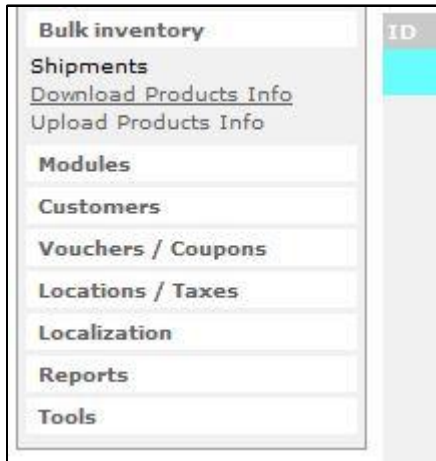
Overview:

The workflow of the tool should be: Navigate to Batch Inventory Adjustment page (not yet created; see #1 below for details) > Download template spreadsheet > Fill out template spreadsheet > Upload spreadsheet to apply desired inventory adjustments

1. We need to create the Batch Inventory Adjustments page with:
 - a. A link to download the template spreadsheet
 - b. A file input field to upload the completed spreadsheet
 - c. An upload history
2. The template spreadsheet (in .csv format) should contain three columns:
 - a. **Product ID** (table: products, field: products_id)
 - b. **Adjustment Value** - Either a positive or a negative integer (negative integers subtract from inventory, positive integers add to inventory)
 - c. **Adjustment Reason** - "Memo"-type field for the user to describe the reason for the adjustment; limit 500 characters
3. Once the spreadsheet has been filled out, the user will then upload it using the file input field.
4. Each upload should be assigned a Batch ID.
 - a. We already have a table named BatchInventoryAdjustments that our other developer had used to to keep records of batch adjustments he has made. You can adopt the existing convention for the Batch ID.
 - b. The values in the **Adjustment Value** column will either add or subtract from the current value in the field products_quantity in the products table for the corresponding product ID on the spreadsheet.
 - i. e.g. If the product's current products_quantity value is 5 and the spreadsheet's **Adjustment Value** for that product is -1, the value will be adjusted to 4.
 - c. In addition to creating records in the BatchInventoryAdjustments table, records will need to be created in the inventory_adjustments and inventory_audit tables for each row on the uploaded spreadsheet.
5. The system should also generate a processing report for each upload. This processing report would contain any errors that occurred during the upload such as invalid product IDs, blank/incomplete cells, etc
6. The page should display an upload history and provide a link to the processing report. I've drafted out roughly how it should look below:

| Date/Time Upload | Batch ID | Uploaded By | Status | Processing Report |
|-------------------|------------|-----------------|-------------------|------------------------|
| 10/21/2014 5:10PM | 2014102102 | Kenzier Lemmons | <i>Processing</i> | -- |
| 10/21/2014 5:08PM | 2014102101 | Kenzier Lemmons | Complete | [view] |

7. The **Uploaded By** information can be taken from the administrators table.
8. The page should only display the history for the last 25 uploads by default. There should also be links to view 50, 100, or all uploads.
9. Please add a link to the complete page in the left-hand menu under the Bulk Inventory submenu. The link text should read "Batch Inventory Uploader"



Notes, Bug Tracking, and Correspondence

Please use this section of the document to make comments, ask questions, or correspond about the project.

KL, 10/20 - Example Note