# Repair Parser Project

## **Objective**

Develop a web-based tool, which generates a Microsoft Word document matching the line items which appear in an input text document with mapped comments and images stored in database.

## **Summary Requirements**

1. Allow user to add, modify or remove Category Names
2. Load a Input Microsoft Excel File in format (.xls, .xlsl) format with multiple tabs
3. Parse Input file and create a dataset for each identified Category Name (R001).
4. Remove all Line Items starting and ending with a explanation comment symbol (“-“)
5. Identify line items which have a mapped explanation comment in the database
6. Display on Screen (R06) the Unmapped Line Items
7. Allow a keyword search on Screen R06 to filter list based on any word input by User
8. Allow user to map the Unmapped Line Items to a New explanation Comment. An explanation Comment can be several pages in length.
9. Allow user to map the Unmapped Line Items to an Existing explanation Comment (One comment can be mapped to many Line Items)
10. Allow user to remove the Unmapped Line Items from List
11. Display on Screen R11 the Mapped Line Items
12. Allow a keyword search on Screen R11 to filter list based on any word input by User
13. Allow User to modify the Mapped Line Items to a different explanation comment
14. Allow User to remove the Mapped Line Items from List
15. Verify all Line Items have a Mapped explanation Comment
16. Create a formatted Microsoft Word Document given format the order in which the line items appear must match the order they appear in the Input File

## **Detailed Requirements**

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| R001 | Allow user to add, modify or remove Category Names |
| Description | * Create Option on First Page for User to Manage Category Names * A Table of current Category Names will appear allow user to Add a new Name, modify existing name or remove an existing Category Name * Update the Database based on User Changes |
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| R002 | Load a Input Microsoft Excel File in format (.xls, .xlsl) format with multiple tabs |
| Description | * If Input file is not a Excel formatted file then throw a error instructing user to add a Excel File * Parse all tabs in the Input file |
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| R003 | Parse Input file and create a dataset (process list) for each identified Category Name (R001). |
| Description | * The line in which a Category Name is identified is referred to as a Category Line. * For each Category Line there are multiple distinct Line Items * Line Items are all lines appearing immediately following a Category Line until the End of Document or a different Category Line is found * Each Line Item has a unique ID. The ID is created by removing spaces, tabs and non-alpha-numeric characters and making all alpha numeric character’s lowercase and appending the Category Name, since a line item appearing in multiple Categories are considered distinct. * Line Items are associated to a Category Line in Order they appear in the Input file. This order will be the same as the Line Items are printed to the Output Microsoft Word Document |
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| R004 | Remove all Line Items deemed as Comments |
| Description | * Any Line Items whose string starts and ends with a explanation comment symbol (“-“) * Allow for multiple explanation comment symbols to be added in the future (eg. “//” …) |
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| R005 | Identify line items which have a mapped explanation comment in the database |
| Description | * Using the Line Item ID determine if a Comment is associated in the database with that ID * Flag those Line Items which have been mapped |
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| R006 | Display on Screen the Unmapped Line Items |
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| R007 | Allow a keyword search on Screen R06 to filter list based on any word input by User |
| Description |  |
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| R008 | Allow user to map the Unmapped Line Items to a New explanation Comment. An explanation Comment can be several pages in length. |
| Description | * User Selects the “Map” Button appearing near the Line Item on Screen R06 * User Selects the “New” Button on the Pop-Up Window * User Adds the multiline Comment * Saves Changes to Database |
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| R009 | Allow user to map the Unmapped Line Items to an Existing explanation Comment (One comment can be mapped to many Line Items) |
| Description | * User Selects the “Map” Button appearing near the Line Item on Screen R06 * User Selects the “Existing” Button on the Pop-Up Window * User Selects from a drop-down list of available Line Items already associated to the same Category with existing Comments * Reviews Existing Comment * Saves Changes to Database * User is unable to modify the Comment in this Screen |
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| R010 | Allow user to remove the Unmapped Line Items from List |
| Description | * User Selects the “Delete” Button near the Line Item on Screen R06 and the Line Item is removed from the process list |
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| R011 | Display on Screen R11 the Mapped Line Items |
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| R012 | Allow a keyword search on Screen R11 to filter list based on any word input by User |
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| R013 | Allow User to modify the Mapped Line Items to a different explanation comment |
| Description | * User Selects “Modify” button and views the current Comment associated to the Line Item * The User can modify the text in the Comment * Allow User to specify if Updated Comment is to be applied for only the specific Line Item or all associated Line Items * If User chooses to only update the specific Line Item the new comment is associated only to this line item and the previous association to the old comment is removed in the database * Else if user chooses to update the comment for all associated Line Items the Comment is updated in the database and all associations remain unchanged * Changes are applied to the database * All Line Items associated to this Comment will now have the changes applied |
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| R014 | Allow User to remove the Mapped Line Items from List |
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| R015 | Verify all Line Items have a Mapped explanation Comment |
| Description | * If any Line Items in the Input document are not associated to a Comment then display them to the User in the unmapped R06 screen |
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| R016 | Create a formatted Microsoft Word Document given format the order in which the line items appear must match the order they appear in the Input File |
| Description |  |
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