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Excel Parsing project

Proposed Solution

**Type:** Client side web application.

**Written Using:** Javascript, JQuery, HTML

**Program:** Visual Studio Professional 2015

**Application Process:**

1. Load the web application.
2. Choose the set of files to be uploaded.
   1. Births and Lead
   2. Prenatal and Lead
3. Upload two excel documents (.XLSX format).
   1. Current month
   2. Previous month
4. Compare the files to find the new records.
5. Output the new records to a single excel document.
   1. The new excel document will be in the same format as the original.
6. Download the new excel document.

Long hand version

The application will utilize a web browser like Google Chrome or Mozilla Firefox. It will be a file that when opened, will load a web page in the web browser. The program will be developed using the professional version of Visual Studio 2015 by Microsoft.

The programming languages necessary to complete this project are HTML5, Bootstrap, Javascript, and JQuery. HTML5 is a markup language that will be used to create the layout of the web application. Bootstrap will be used to add a professional look to the application. Javascript and JQuery define the functionality of this tool. Javascript is the main programming language while JQuery provides some additional functionality.

The application will have a specific workflow that is accomplished with a single web page. First, the user will load the web page. Once loaded, the user will be presented with two options, Birth and Lead or Prenatal and Lead. The option is selected by ticking a circle. After a selection is made two sections will appear that will allow two separate Excel documents to be uploaded. Files are uploaded by clicking a button for each file. Next, a submit button will be made clickable. Once clicked, the application will compare the two files to isolate new lines, then the file will be made available for download. Lastly, download the file by clicking on the download button. After the file has been downloaded, the application may be closed. The new Excel file will have the same number of columns as the originals.

Tasks

1. Business requirements documentation
   1. Proposal (6 hrs)
   2. Workflow diagram (8 hours)
   3. Define task completion time (2 hours)
2. Application approval
   1. Discuss design (0.5 hours)
   2. Discuss functionality (0.5 hours)
3. Develop layout
   1. Utilize HTML5 to build structure (10 hours)
   2. Apply Bootstrap design (2 hours)
   3. Finalize layout (8 hours)
4. Develop functionality
   1. Application flow (8 hours)
   2. Reading an Excel document (24 hours)
   3. Creating an Excel document (24 hours)
   4. Adding input validation (12 hours)
   5. Testing (8 hours)