Reading Excel File using LWC - Overview

Overview:

As we all know that salesforce directly won't allow us to read, validate or use data in an excel file or write data to an excel file using Apex , Aura, LWC or any other means. There can be a business requirement where we need to validate data in excel or create an excel and upload under a record. This kind of stuff is usually done manually by the internal teams which consumes a lot of time. Imagine how much time we can save by automating such tasks.

What if I say there is a way to automate these excel related stuff which saves a lot of time and increases productivity. But to achieve this we need to depend on a third-party js module that behaves as a middleware between Salesforce LWC ad Excel and helps us in data import, export or processing from/to excel files.

In this document, I'm explaining the process of reading data from excel files and using it in LWC.

Requirement:

Display all the excel files that are uploaded under a record and when the user selects one file preview the content in the excel file as a lightning-datatable.
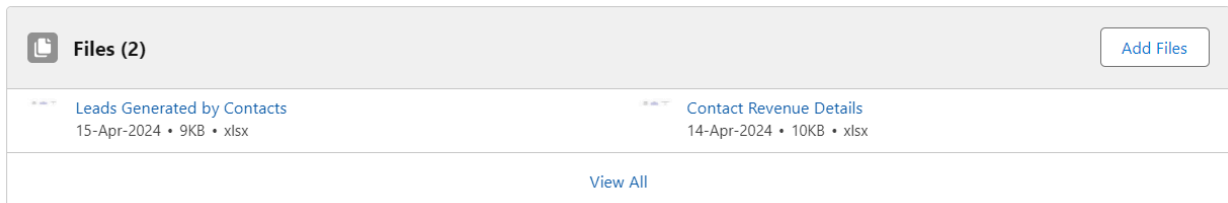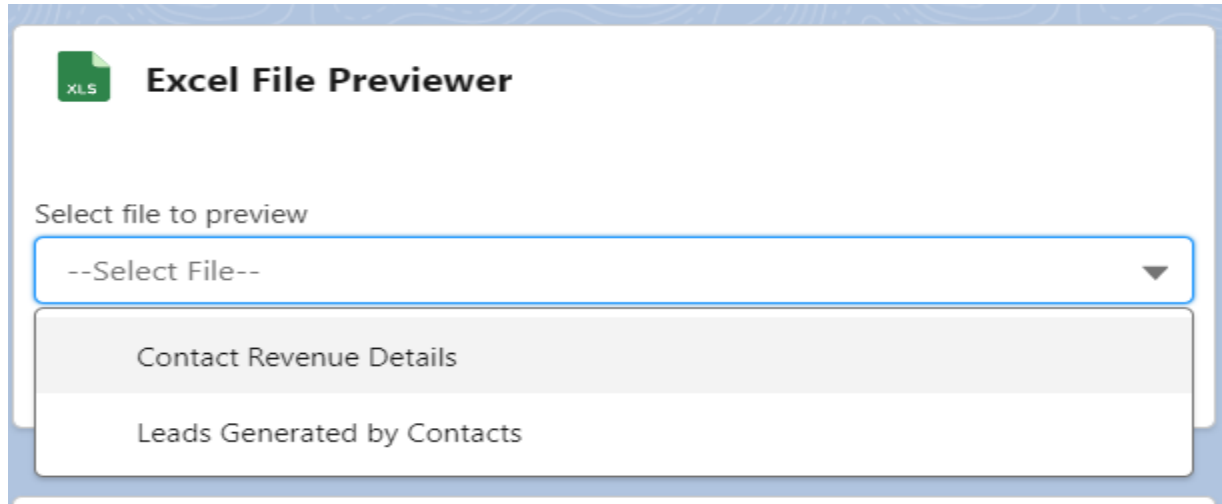
Technical & Functional Overview:

For this requirement, I have consumed two LWC files and uan apex controller to pull the files-related data. I have also uploaded the third-party javaScript file as a static resource and imported it into the LWC to use it to read the data in excel files.
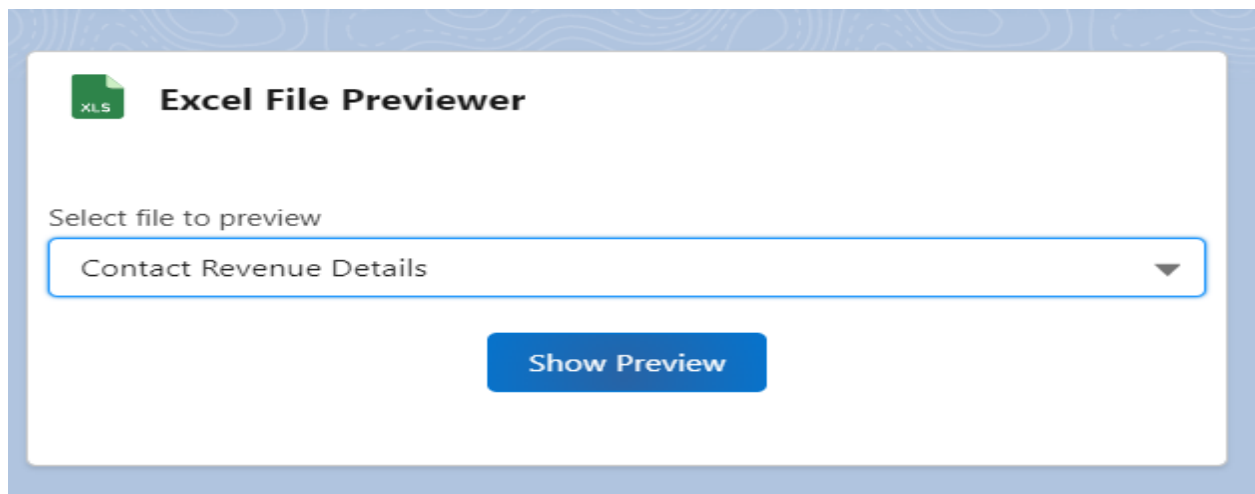
Components Used:

LWC Components:

1. **excelFileReader** - LWC to display all the excel files that are uploaded under the record.

- This component displays a picklist that show all the excel files that are uploaded under the record
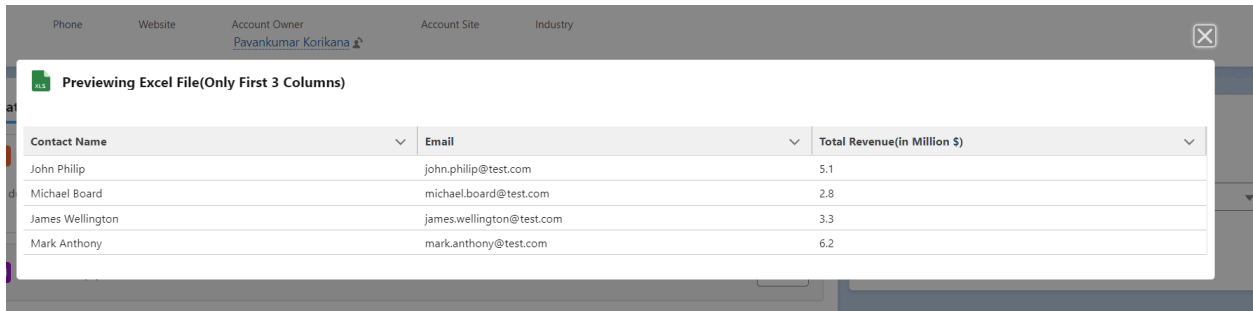

- When the user selects a file from the picklist and clicks on **Show Preview** button, excelFilePreviewPopup LWC component will be rendered as a popup/modal and displays selected excel file contents as a datatable.

2. **excelFilePreviewPopup** - LWC to display excel file content as a lightning-datatable
● When file contentDocument Id is passed to this component, it pulls the latest excel file data from ContentVersion and previews it as a lightning-table

Conclusion:

The above scenario is a simple use case to show how we can pull data in the excel to LWC's javaScript and use. We can also achieve some moderate/complex requirements like writing data into excel and uploading, validating a particular column for proper data using regEx ..etc.