1. What is the runtime and space complexity of your program? Explain in Details.
2. Have you made any assumptions for designing your solution? If yes, please explain.

I have created a simple flow chart from importing data from excel sheet to csv conversion.

Below is the flow chart of the application.

CSV sheets

Product table

Convert to Table

Excel sheet

Error

Error Excel sheet

Export to error table

1. Have you made any design decisions to make your solution more efficient and manageable? If yes, please explain.

For making solution more efficient and manageable, I avoided the use of any third party library.

I just use XLworkbook to read all the data from excel sheet and write it into the datatable for further process.

1. How your program will change when the input source is a database instead of an excel file?

If the input source changes from excel file to database, then we just need to get the data from database into datatable in the ImportData.cs file and the remaining process will be same.

1. How will your program behave when total product count is more than 10 million?

There will be no issue whether the product count is under 100k or more than 10 million, but the execution time will be more, as reading data from excel file is time taking because we have to go through it for each cell in the excel sheet to get the data and save it to datatable.