Subject: Update on CSV Comparison Utility Development & Proposal for Broader Use

Dear Rajneesh Sir,

I hope you are doing well.

I am happy to share that I have made good progress in developing the **CSV Comparison Utility** as part of my new assignment with the ATPCO team. This solution is aimed at significantly improving the speed and flexibility of comparing large data sets.

Here are the key features developed so far:

1. **Speed & Efficiency**:
   * The utility can now compare up to **2000 files in one minute**, offering a major boost in processing speed compared to manual methods.
   * I have implemented a **Parallelism Mechanism** to further enhance comparison speed.
2. **Configurable Parameters**:
   * **Primary Key Configuration**: Users can define a primary key for more accurate matching.
   * **Column Selection**: Users can choose to compare **all columns** or specify certain columns as needed.
3. **Comprehensive Reporting**:
   * The utility generates detailed reports, which include:
     + **No comparison due to unavailable files**
     + **No primary key available in the files**
     + **PASS** (matching records)
     + **FAIL** (discrepancies found)
     + Additional details such as:
       - Differences in values
       - Missing rows in the source or destination file
       - Duplicate rows in either file
4. **Expand/Collapse Feature**:
   * This feature helps manage large files by allowing users to expand or collapse sections, making the comparison results easier to navigate.

I believe this utility has great potential not only for the ATPCO team but also for other projects within Coforge. Currently, many teams are still using manual or traditional methods for data comparison, which are time-consuming. This utility can streamline those processes, saving time and improving overall efficiency.

I have also attached a screenshot of the comparison report for your reference.

I would greatly appreciate your feedback and look forward to discussing how we can pitch this solution to other teams and customers within Coforge.

Best regards,