



Paymentology Transaction Reconciliation

Web Application Documentation

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1. Assumption:

As specified in the Welcome to Paymentology project brief, in order to complete the given project, certain assumptions were made. First of all, I assumed the two files were modeled from a relational database and as such surmised that using the transactionID column may not give me the most accurate comparison result and as such chose instead to use the WalletReference, TransactionAmount and TransactionDate as comparison keys.

Furthermore, I did not forgo the possibility of having a missing column in record and as well accounted for this in my assumptions, therefore, when getting the unmatched records, I only compared both files using the WalletReference. After this, I compared the compiled unmatched records on both files to find possible matches using WalletReference, TransactionAmount and TransactionDate as comparison keys.

1.1 Technologies Used:

The technologies and dependencies used for this project are:

FrontEnd: ReactJs, Tailwindcss, Axios, ReactDOM, React Loader Spinner and React Toastify

BackEnd: Java, Springboot, Univocity and junit

2. Interface:

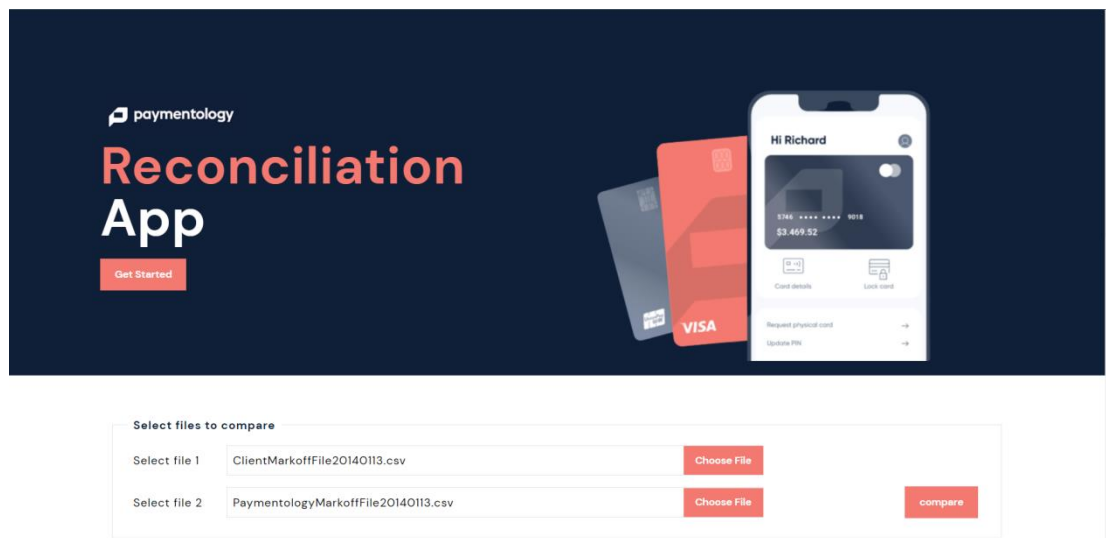


Figure 1: Landing page of web app

The landing page of the web app takes its design elements from the paymentology official website, sporting the same color profiles and subtleties

Comparison results

ClientMarkoffFile20140113.csv	PaymentologyMarkoffFile20140113.csv
Total Records: 306	Total Records: 305
Matching Records: 304	Matching Records: 303
Unmatched Records: 2	Unmatched Records: 2

[Unmatched Report]

Unmatched Report

ClientMarkoffFile20140113.csv			PaymentologyMarkoffFile20140113.csv		
Date	Reference	Amount	Date	Reference	Amount
Unmatched Record	N/A	-6984	Suggested Match	P_Nzc1MDA3MTFhMTM4MTQ4MjUOMC4zMjc2	-6984
2014-01-12 15:03:05	N/A	-6984	2014-01-12 15:03:05	P_Nzc1MDA3MTFhMTM4MTQ4MjUOMC4zMjc2	-6984
Unmatched Record	P_Nzl5MTc3u89FITTIdf7349yOS4wNji4	-37582	Suggested Match	N/A	N/A
2014-01-12 11:55:43	P_Nzl5MTc3u89FITTIdf7349yOS4wNji4	-37582	N/A	N/A	N/A
Suggested Match	N/A	N/A	Unmatched Record	P_Nzl5MTc3NzdFMTM4MDUyOTMyOS4wNji4	-35000
N/A	N/A	N/A	2014-01-12 16:18:25	P_Nzl5MTc3NzdFMTM4MDUyOTMyOS4wNji4	-35000

Figure 2: Result Component

The result component follows the balsamic mockup given in the devtrial zip file with additions of course.

As can be seen in the image, each record which could not be matched is stated with a badge which says unmatched record and beside it would be the closest possible matching record. If there are no close matches, the identifier N/A is written in its place signifying that there are no close matches currently available.