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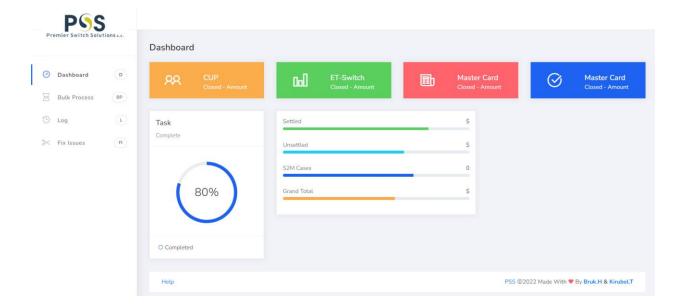
# 1 Introduction

The YCO (Yegna Clearing Optimizer) web app is designed to help to trace transactions. It accepts an excel file and provide excel file as a result, including all status of the requested transactions.

# 2 Bulk Clearing Process

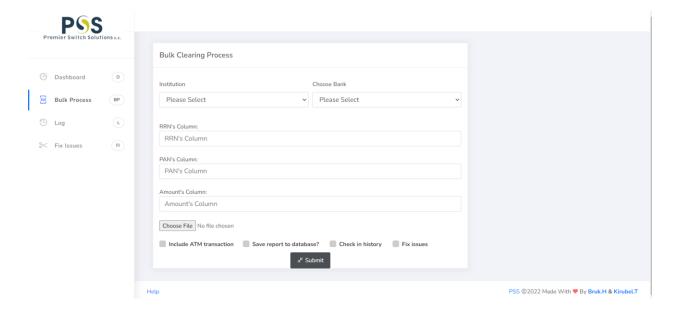
The bulk clearing module helps the user to process multiple transactions in the excel file.

http://192.168.15.155:8000/

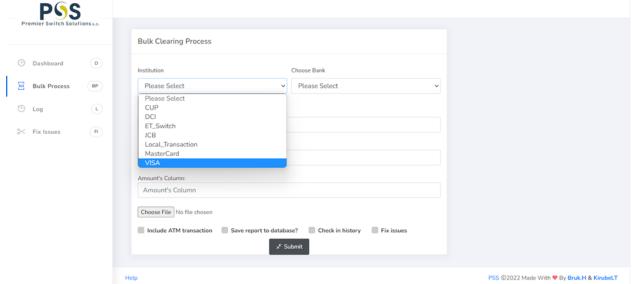




## 2.1 SELECT BULK PROCESS MODULE

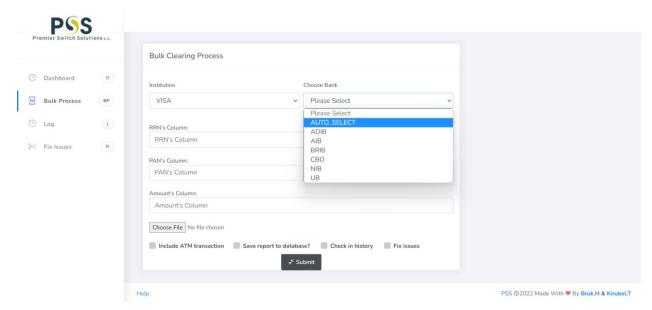


## 2.2 FILL THE FORM



Choose Bank - If the file has a single bank transaction, you can select the option with the specific bank name. But if the file contains multiple Banks' transactions choose the AUTO\_SELECT option.

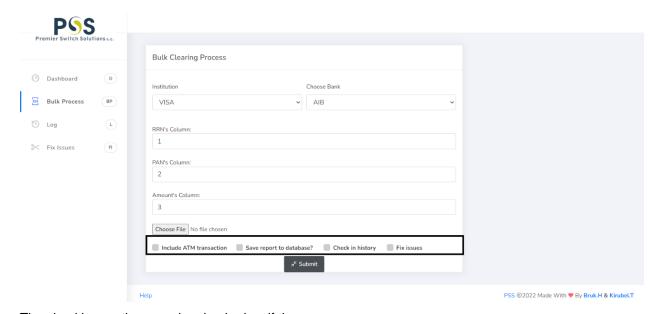




Prepare the excel, get the columns of each necessary field as bellows figure, choose file, check or uncheck the Save report to database option and submit.

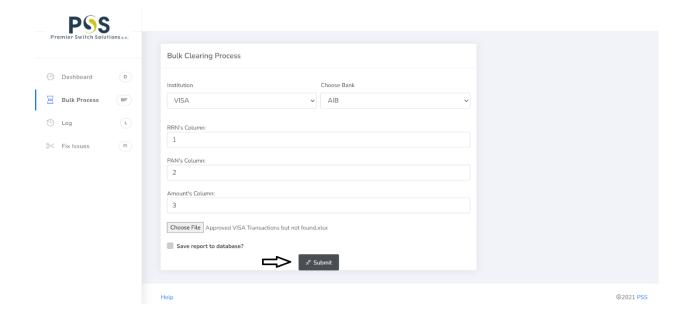
	А	В	С
1	Ref No	PAN (Card No)	Transaction Amt
2	135518634772	4187451831962941	1,550.00
3	135513589780	4024830000130355	15,000.00
4	135511573182	4693595721164690	1,759.98
5	135509562435	4693595721201690	2,795.01
6	135507544502	4309380047748500	236.00
	1	2	3





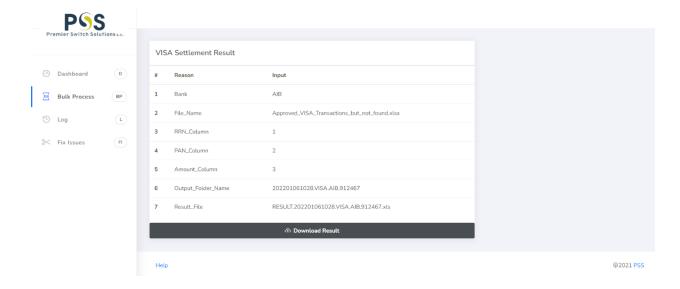
The checkbox options can be checked as if they are necessary.

- ✓ **Include ATM transactions** = for ATMs and EthSwitch incoming transactions. The result will not contain the outgoing date, it uses to check clearing.
- ✓ Save report to database = use for if there are some pending transactions that needs follow-up
- ✓ Check in history = For a year before transactions
- ✓ **Fix Issues** = If there are transactions that their rem\_stat needs to be changed to Y.



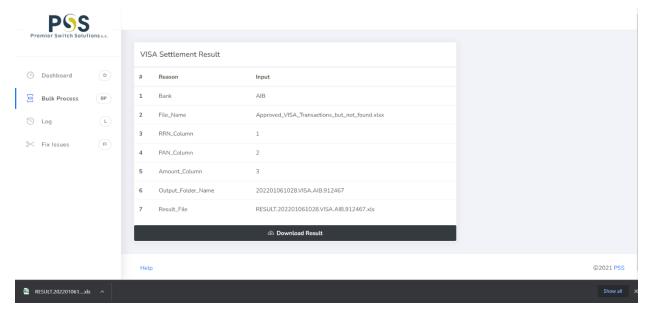


## 2.3 REDIRECTED TO RESULT PAGE



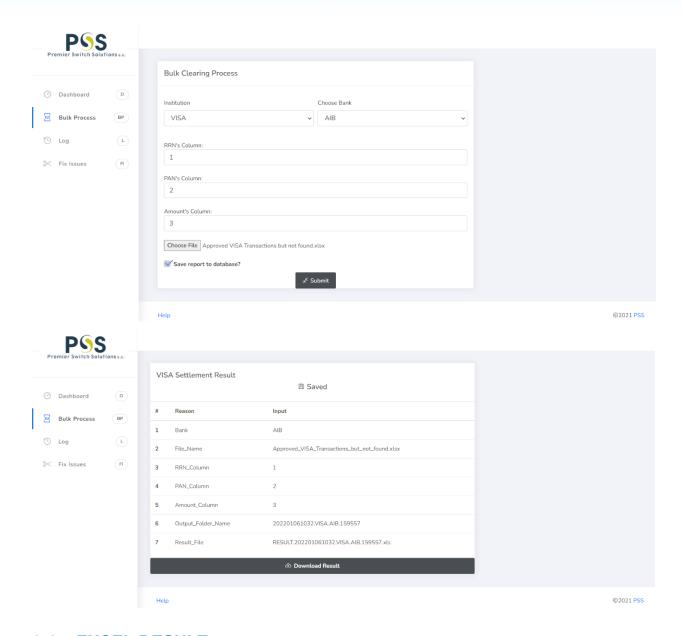
The result page gives compiled information about the process and the result.

The result is an excel file and it's downloadable.



If the Save to database checkbox is checked as the below figure, there is a notification that indicates the data was saved on top of the result page.



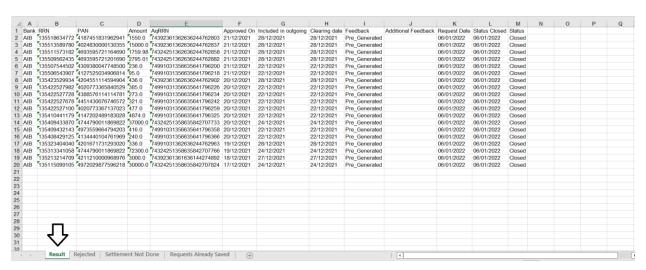


# 2.4 EXCEL RESULT

The excel result has four sheets - Result, Rejected, Settlement not done, and Requests already saved sheet.



#### 2.4.1 Result sheet



The Result sheet has 13 columns

Column	Name	Reason
А	Bank	Bank Name
В	RRN	Retrieval Reference Number
С	PAN	Primary Account Number
D	Amount	Transaction Amount
E	AqRRN	Acquirer Retrieval Reference Number
F	Approved On	Transaction Approved Date
G	Included in outgoing	Outgoing File Generated Date
н	Clearing Date	Clearing File Generated Date
1	Feedback	Explain The Transaction Status
J	Additional Feedback	Used For Backend Processer
K	Request Date	The User of The Application Requested Date
L	Status Closed	The Status Closed Date
M	Status	The Status of Transaction, Pending or Closed

Feedback (Column I) - explain the transaction status in detail

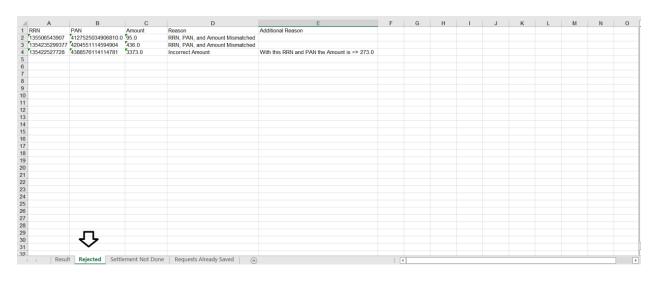


No	Feedback	Reason
1	Pre_Generated	The outgoing file is already generated.  Status is closed.
2	Not_Processed_Yet_After_EOD	When the transaction date and the requested date are similar, the outgoing file will be generated after EOD because EOD is not yet processed.  Status is pending.
3	IN_CL_NOT_OUT_S2M	Included in clearing but not in outgoing, so this case needs to be logged to S2M.  Status is pending till S2M team solve the issue.
4	Pre_Included_In_Clearing	For Local transactions outgoing file may not be generated but the clearing file is already generated in this case.  Status is closed.
5	SETTLE_NOT_DONE_EOD	The settlement was not done from the terminal side, so manual settlement should be done. After the manual settlement done the outgoing file and clearing file will be generated after EOD.  Status is pending.
6	REM_STAT_CHANGED_EOD	The remittance status is changed automatically to proceed the interrupted process. After EOD the outgoing file and clearing file will be generated.  Status is pending.
7	Y_S2M	The remittance status is Y so it needs to be logged to S2M for further processing.  Status is pending
8	REM_DATA_NOT_FOUND_S2M	The transaction is not found in the remittance transaction table, the case needs to be logged to S2M.  Status is pending.
9	Uncaught_Tran_transaction_record_table_error	If there is uncaught result, the investigation should be done manually
10	UNCAUGHT_REM_TAB_ERROR	rather than this App.



11	Uncaught Authorization Error	
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# 2.4.2 Rejected sheet



## The rejected sheet has five columns

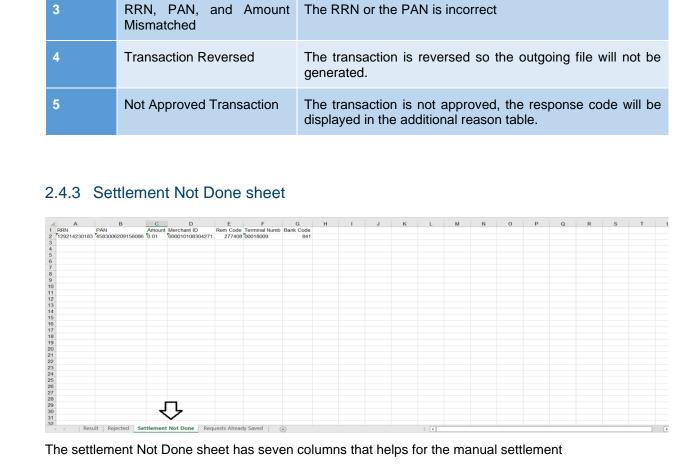
Column	Name	Reason
Α	RRN	Retrieval Reference Number
В	PAN	Primary Account Number
С	Amount	Transaction Amount
D	Reason	Reason for the rejection
Е	Additional Reason	To explain the reason in detail

# Reason (Column D)

No	Reason	Explanation
1	Not POS transaction	If the transaction is not POS transaction
2	Incorrect Amount	The provided amount is not correct, the correct amount will be displayed in the additional feedback.



3	RRN, PAN, and Amount Mismatched	The RRN or the PAN is incorrect
4	Transaction Reversed	The transaction is reversed so the outgoing file will not be generated.
5	Not Approved Transaction	The transaction is not approved, the response code will be displayed in the additional reason table.

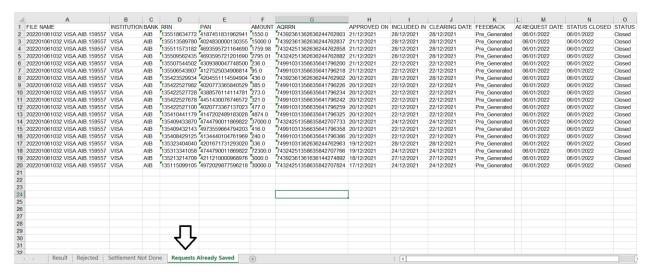


The settlement Not Done sheet has seven columns that helps for the manual settlement

Column	Name	Reason
A	RRN	Retrieval Reference Number
В	PAN	Primary Account Number
С	Amount	Transaction Amount
D	Merchant ID	Merchant Identifier
E	Rem Code	Remittance Code
F	Terminal Numb	Terminal Number
G	Bank Code	Bank Code (ID)



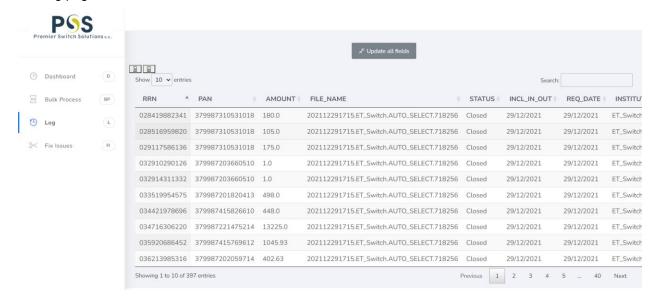
## 2.4.4 Requests Already Saved sheet



The requests' already saved sheet has 15 columns that are fetched from the Database.

# 3 Log Page

The log page has the database's information that has been saved. It has 15 columns.





# LOG Columns

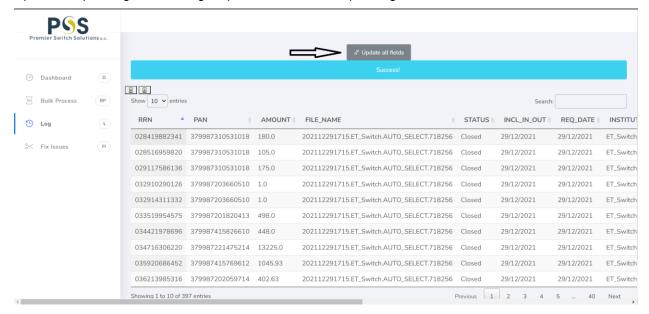
No	Columns	Reason
1	RRN	Retrieval Reference Number
2	PAN	Primary Account Number
3	AMOUNT	Transaction Amount
4	FILE_NAME	The result file name
5	STATUS	The Status of Transaction, Pending or Closed
6	INCL_IN_OUT	Included in outgoing file date (Outgoing File Generated Date)
7	REQ_DATE	The User of The Application Requested Date
8	INISTITUTION	Institutions such as VISA, Mastercard, and others
9	BANK	Bank Name
10	AQRRN	Acquirer Retrieval Reference Number
11	APPROVED_ON	Transaction Approved Date
12	CLEAR_DATE	Clearing File Generated Date
13	FEEDBACK	Explain The Transaction Status
14	ADD_FEEDBACK	Used For Backend Processer, has information based on the feedback
15	STATUS_CLOSED	The Status Closed Date



## 3.1 LOG PAGE CAPABILITIES

## 3.1.1 Update

Update the pending in order to get updated result for the pending cases.



## 3.1.2 Search

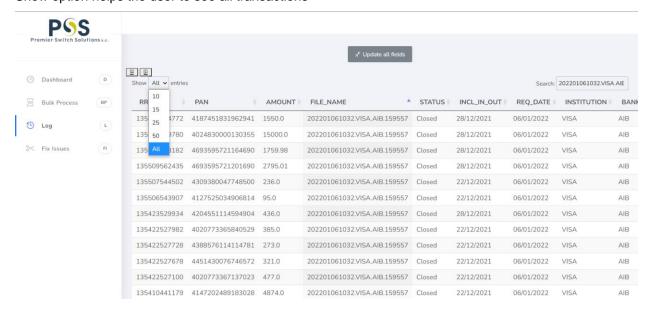
Individual transactions can be searched based on their RRN, FILE\_NAME, STATUS, INSTITUTION, BANK, and some other fields. For instance, the below figure shows searching one transaction by RRN.





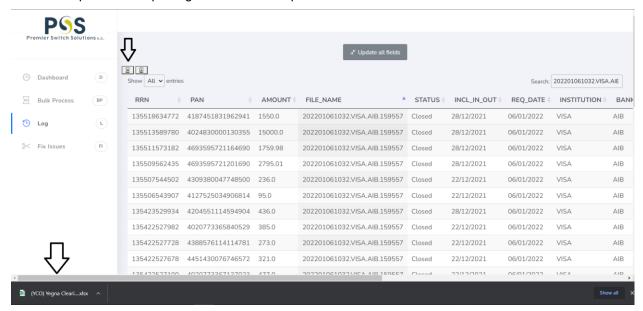
# 3.1.3 Paginate

Previous and Next buttons are used for pagination Show option helps the user to see all transactions

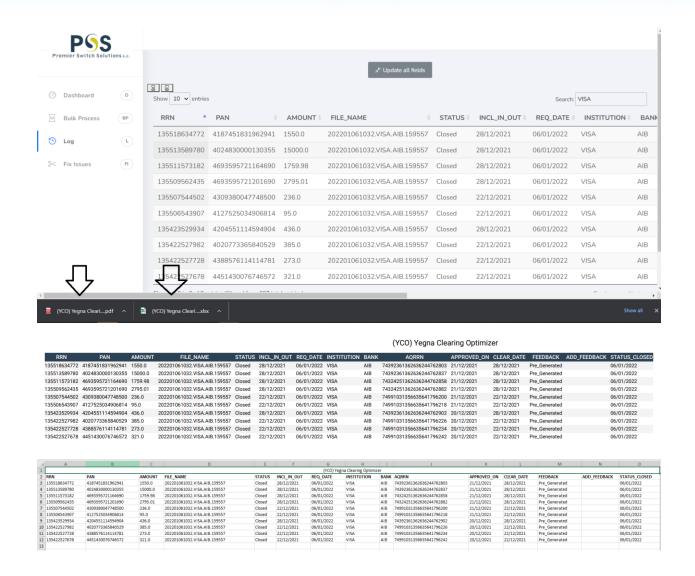


## 3.1.4 Export

It has two options for exporting format for the report Excel and PDF.







N.B This application is not fully completed there are things left such as enhanced dashboard, report, and others.