

# Uploading Transaction Data from File (In VSC, XML Format)

- ASP.Net Web Application (in MVC architecture with Web API)
- Target framework 4.7.2
- SSMS -2017

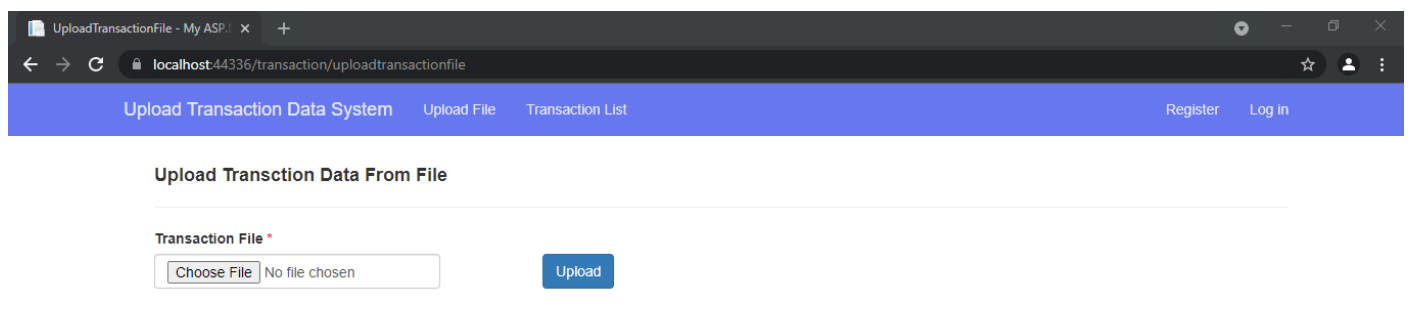
First, I created the project that named as UploadTransaction\_System. For the database of this project, I built database named UploadTransactionsDB. I created 5 tables for this database. They are

1. FileRecord
2. TransactionData
3. InvalidTransaction\_Log
4. Currency (for show data)
5. Logging

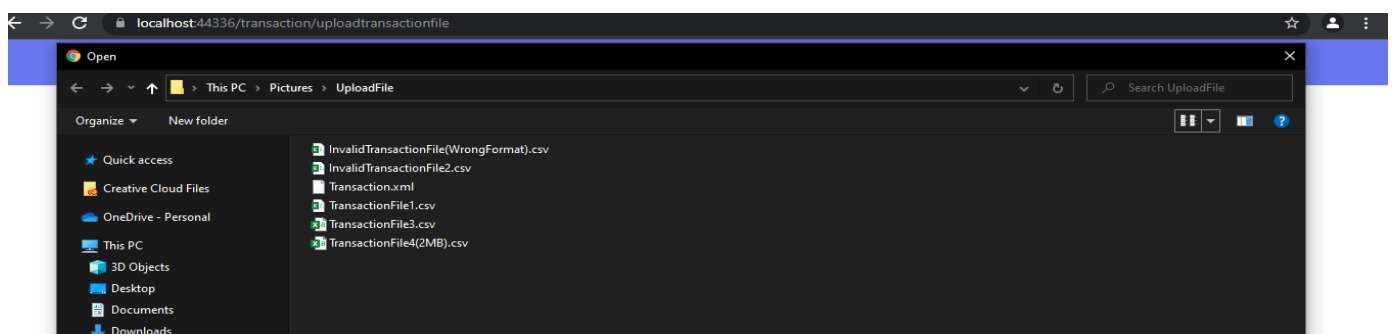
If user imported a file (only in vsc, xml format) and record is valid, I saved one records to [FileRecod] Table including data such as [fileid], file name, created date, created ip address and then saved transaction data that is possible more than one to TransactionData table with file id. If any records is invalid, file is not submitted but collected invalid records into InvalidTransaction\_Log. We can save invalid logs as text log file. But here I saved it into [InvalidTransaction\_Log] Table.

## 1.Import File

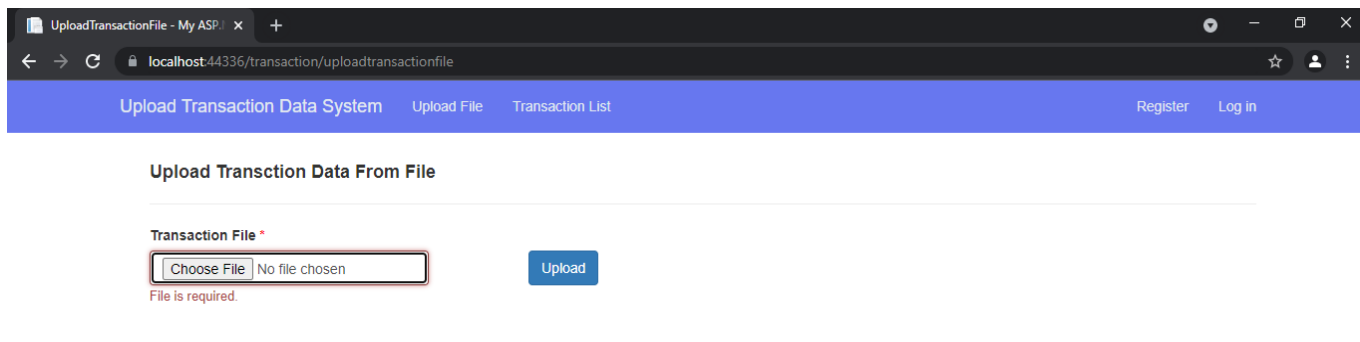
You can upload file in Upload File Page.



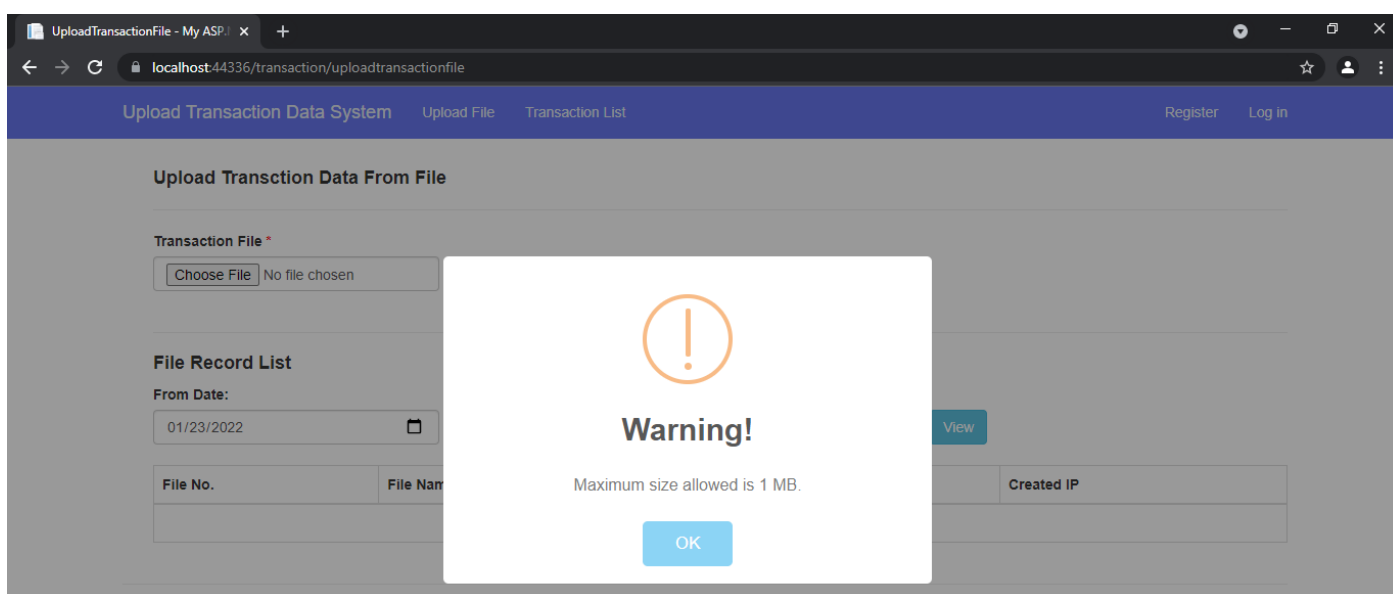
You can choose file in csv and xml format because I accept the file type only that two and it validate format.



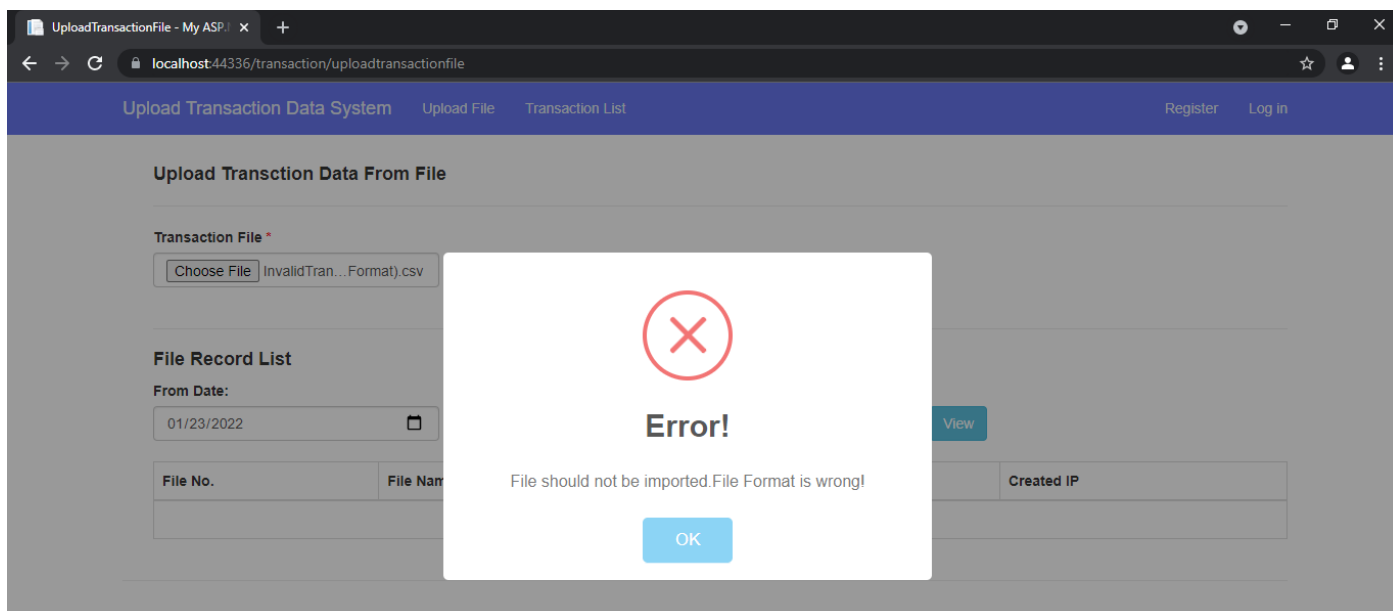
You can't upload without choosing file. It requested you field validation.



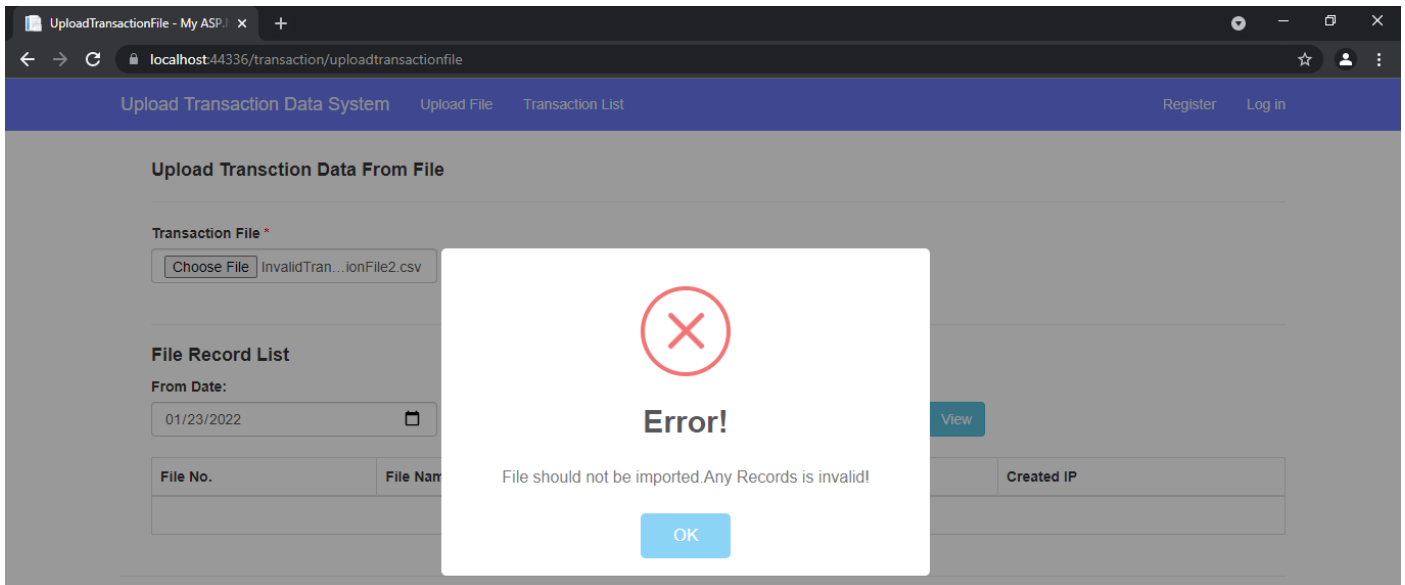
Maximum size is allowed 1MB.



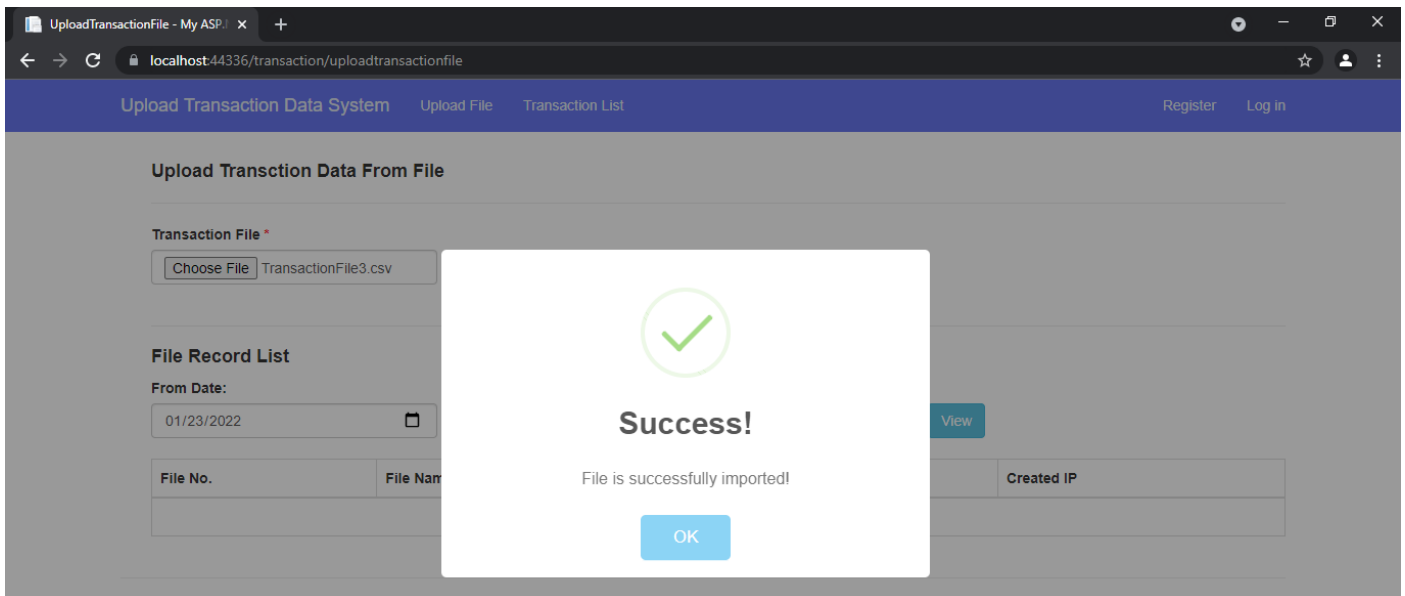
If the header value of file you uploaded (in vsc) is wrong, I returned the alert "file should not be imported and file format is wrong."



If any record is missing and one record is invalid, I returned the alert “file should not imported.”



If records are valid, file is successfully submitted.



2.If you want to view file records, you can search and view by date.

UploadTransactionFile - My ASP.NET App

localhost:44336/transaction/uploadtransactionfile

Upload Transaction Data System Upload File Transaction List Register Log in

### File Record List

From Date: 01/01/2022 To Date: 01/23/2022 View

Excel Search:

File No.	File Name	Created Date	Created IP
2301202201	TransactionFile3.csv	23-Jan-2022	::1
2301202202	Transaction.xml	23-Jan-2022	::1
2301202203	Transaction.xml	23-Jan-2022	::1
2301202204	Transaction.xml	23-Jan-2022	::1
2301202205	TransactionFile3.csv	23-Jan-2022	::1
2401202201	TransactionFile3.csv	23-Jan-2022	::1
2501202201	TransactionFile3.csv	23-Jan-2022	::1
2601202201	TransactionFile3.csv	23-Jan-2022	::1
2701202201	TransactionFile3.csv	23-Jan-2022	::1
2801202201	TransactionFile3.csv	23-Jan-2022	::1
2901202201	TransactionFile3.csv	23-Jan-2022	::1

3.You can search all the transaction data by date range, status, and currency.

TransactionList - My ASP.NET App

localhost:44336/transaction/transactionlist

Upload Transaction Data System Upload File Transaction List Register Log in

### Transaction Data List

From Date: 01/01/2022 To Date: 01/23/2022

Status: --- Select --- Currency: USD View

Excel Search:

No.	Id	Payment	Status
1	Invoice0000001	1000 (USD)	A
2	Invoice0000001	1000 (USD)	A
3	Invoice0000002	300 (USD)	R
4	Invoice0000002	300 (USD)	R
Total:		2,600	

Show 50 entries Showing 1 to 4 of 4 entries Previous 1 Next

Invalid records are collected into [InvalidTransaction\_Log] table. We can save invalid logs as text log file. But here I collected invalid records into table.

	Id	TransactionId	Amount	Currency	TransactionDate	Status	CreatedDate	CreatedIPAddr...
	10	Invoice0000001	0	USD	2022-01-23 17:4...		2022-01-23 13:3...	::1
	11	Invoice0000002	300		2022-01-23 17:4...	Failed	2022-01-23 13:3...	::1
	12	Invoice0000003	300	USD	2022-01-23 17:4...		2022-01-23 13:3...	::1
	13		300	USD	2022-01-23 17:4...	Failed	2022-01-23 13:3...	::1
	14	Invoice0000004	1000	USD	1900-01-01 00:0...	Approved	2022-01-23 13:3...	::1
	15	Invoice0000001	0	USD	2022-01-23 17:4...		2022-01-23 13:3...	::1
	16	Invoice0000002	300		2022-01-23 17:4...	Failed	2022-01-23 13:3...	::1
	17	Invoice0000003	300	USD	2022-01-23 17:4...		2022-01-23 13:3...	::1
	18		300	USD	2022-01-23 17:4...	Failed	2022-01-23 13:3...	::1
	19	Invoice0000004	1000	USD	1900-01-01 00:0...	Approved	2022-01-23 13:3...	::1
	20	Invoice0000001	0	USD	2022-01-23 17:4...		2022-01-23 13:3...	::1
	21	Invoice0000002	300		2022-01-23 17:4...	Failed	2022-01-23 13:3...	::1
	22	Invoice0000003	300	USD	2022-01-23 17:4...		2022-01-23 13:3...	::1
	23		300	USD	2022-01-23 17:4...	Failed	2022-01-23 13:3...	::1
	24	Invoice0000004	1000	USD	1900-01-01 00:0...	Approved	2022-01-23 13:3...	::1
	25	Invoice0000001	0	USD	2022-01-23 17:4...		2022-01-23 13:4...	::1
	26	Invoice0000002	300		2022-01-23 17:4...	Failed	2022-01-23 13:4...	::1
	27	Invoice0000003	300	USD	2022-01-23 17:4...		2022-01-23 13:4...	::1
	28		300	USD	2022-01-23 17:4...	Failed	2022-01-23 13:4...	::1
	29	Invoice0000004	1000	USD	1900-01-01 00:0...	Approved	2022-01-23 13:4...	::1
	30	NULL	NULL	NULL	NULL	NULL	NULL	NULL

I created logging because I want to know such as which user performed what function, where they log in and what errors are occurred etc.

	Id	Date	Thread	Level	Logger	Message	Exception
	1	NULL	NULL	NULL	NULL	NULL	NULL
	2	2022-01-23 11:2...	6	INFO	UploadTransact...	UploadTransact...	
	3	2022-01-23 11:2...	6	INFO	UploadTransact...	UploadTransact...	
	4	2022-01-23 11:4...	6	INFO	UploadTransact...	UploadTransact...	
	5	2022-01-23 11:5...	6	INFO	UploadTransact...	UploadTransact...	
	6	2022-01-23 11:5...	6	ERROR	UploadTransact...	File should not ...	
	7	2022-01-23 11:5...	6	INFO	UploadTransact...	UploadTransact...	
	8	2022-01-23 12:0...	49	INFO	UploadTransact...	SaveTransactio...	
	9	2022-01-23 12:0...	49	INFO	UploadTransact...	UploadTransact...	
	10	2022-01-23 12:0...	6	INFO	UploadTransact...	UploadTransact...	
	11	2022-01-23 12:1...	6	INFO	UploadTransact...	UploadTransact...	
	12	2022-01-23 12:1...	7	INFO	UploadTransact...	UploadTransact...	
	13	2022-01-23 12:1...	7	ERROR	UploadTransact...	File should not ...	
	14	2022-01-23 12:1...	15	ERROR	UploadTransact...	File should not ...	
	15	2022-01-23 12:2...	26	ERROR	UploadTransact...	File should not ...	
	16	2022-01-23 12:2...	5	INFO	UploadTransact...	UploadTransact...	
	17	2022-01-23 12:2...	6	ERROR	UploadTransact...	SaveTransactio...	
	18	2022-01-23 12:2...	6	ERROR	UploadTransact...	Object cannot ...	
	19	2022-01-23 12:3...	28	ERROR	UploadTransact...	SaveTransactio...	
	20	2022-01-23 12:3...	28	ERROR	UploadTransact...	The parameteri...	
	21	2022-01-23 12:3...	45	ERROR	UploadTransact...	SaveTransactio...	
	22	2022-01-23 12:3...	45	ERROR	UploadTransact...	The parameteri...	
	23	2022-01-23 12:4...	6	ERROR	UploadTransact...	SaveTransactio...	
	24	2022-01-23 12:4...	6	ERROR	UploadTransact...	The parameteri...	

Tips: Before you run the project, please noted that you need to change <connectionStrings> with your own ssms data source, initial catalog, id and password in web.config and also Logging.config.

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