Problem: We want to store client data via excel import, so the server job to process this excel file and store the data into database, Please see the below client table column names:

- legal_name (required and unique string)
- client_type: (require and enum Customer/Vendor/Both)
- email (optional string)
- phone (optional string)
- gstin (optional string)
- pan (optional string)

Below are few situation and cases, understand the requirement by given information and assum this feature is ready to use. So what's your action plan to test this feature.

Your job to write positive, negative and edge test cases while you want to test this feature, also mention the estimate time to test this feature manually and/or automatic test cases. If you can create user stories, it will add extra points.

Situation 1:
This is the ideal data to be imported in system:-

client_number	legal_name	client_type	email	phone	gstin	pan
FILE/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPM7270G
FILE/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQPJ9049K

Error Case 1:-

Kindly Sanitize data – Do all kind of cleaning require to import data in finest way.

Case1 - Data Sanitization (Remove all kind of symbols, space and clean data throughly)						
client_number	Name	client_type	email	phone	gstin	pan
FILE/01	Gaurav,,	Customer	cnj@gmail.com,,,,	584121	24AMGPM7270G1Z0	AMGPM7270G
FILE/02	Ankita	Customer	kmk@gmail.com,, ,,,,	541 - 212	24ANQPJ9049K1ZD	ANQPJ9049K

Situation 2:
This is the ideal data to be imported in system:-

client_number	legal_name	client_type	email	phone	gstin	pan
FILE/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPM7270G
FILE/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQPJ9049K

Error Case 2:-

Client number can be case insensitive i.e – FILE/01 and file/02 both should take into consideration. If there is some data filled in FILE/01, it can take file/02 also, as Client number field should work irrespective of case sensitive.

Case2 - Client number can be case sensitive and it should be allowed						
client_number	Name	client_type	email	phone	gstin	pan
File/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPM7270G
file/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQPJ9049K

Situation 3:

This is the ideal data to be imported in system:-

client_number	legal_name	client_type	email	phone	gstin	pan
FILE/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPM7270G
FILE/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQPJ9049K

Error Case 3:-

PAN number should be unique, it should be allowed to repeat in any case and it should be case sensitive, all in CAPS always.

Case3 - Repeat PAN should not be allowed						
client_number	Name	client_type	email	phone	gstin	pan
FILE/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPm7270G
FILE/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQpj9049K
FILE/03	Mehak	Both	njkn@gmail.com	6787899	24ANQPJ9049K1ZD	ANQpj9049K

Situation 4:

This is the ideal data to be imported in system:-

client_number	legal_name	client_type	email	phone	gstin	pan
FILE/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPM7270G
FILE/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQPJ9049K

Error Case 4:-

If data in row already exist, don't import that data, show error – " Data already exist".
Refer to image below:-

Case4 - Avoid Duplicacy (Importing of duplicate rows)							
Sheet1 - Imported							
client_number	Name	client_type	email	phone	gstin	pan	
FILE/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPM7270G	
FILE/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQPJ9049K	
Sheet2 - Imported							
client_number	Name	client_type	email	phone	gstin	pan	
File/01	Aman	Customer	cneej@gmail.com	584121	24AMGHM7270Z1G0	AMGHM7270Z	
File/02	Sunita	Both	kmeek@gmail.com	541212	24ANQFJ9049F1M0	ANQFJ9049F	
Sheet3 - Ready to Import							
client_number	Name	client_type	email	phone	gstin	pan	
File/03	Aman	Customer	cneej@gmail.com	584121	24AMGHM7270Z1G0	AMGHM7270Z	Already existing Row
File/04	Sunita	Both	kmeek@gmail.com	541212	24ANQFJ9049F1M0	ANQFJ9049F	Already existing Row
File/05	Pappu	Vendor	uhkn@gmail.com	1234509	27AWNPG8765Z1F0	AWNPG8765Z	New, it shall import

Situation 5:

This is the ideal data to be imported in system:-

client_number	legal_name	client_type	email	phone	gstin	pan
FILE/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPM7270G
FILE/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQPJ9049K

Error Case 5:-

In this case, if FILE/01 has gaurav , but file/01 has aman, data should be allowed to import, As case insensitive in client number should not be reason of error, while importing.

Case5 - Here file with insensitive client number and different client details should allow to import data.

Sheet1 - Imported

client_number	Name	client_type	email	phone	gstin	pan	
FILE/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPM7270G	
FILE/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQPJ9049K	

Sheet2 - Ready to import

client_number	Name	client_type	email	phone	gstin	pan	
File/01	Aman	Customer	cneej@gmail.com	584121	24AMGHM7270Z1G0	AMGHM7270Z	File number is in small case
File/02	Sunita	Both	kmeek@gmail.com	541212	24ANQFJ9049F1M0	ANQFJ9049F	File number is in small case

Situation 6:

This is the ideal data to be imported in system:-

client_number	legal_name	client_type	email	phone	gstin	pan
FILE/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPM7270G
FILE/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQPJ9049K

Error Case 6:-

In this error case, we are importing different data in previously imported client number. If File/02 has already imported Ankita, it should not allow to import Ajit in File/02. Refer image below:-

Case6 - Avoid different Data in same file number (Importing of duplicate rows)

Sheet1 - Imported

client_number	Name	client_type	email	phone	gstin	pan	
FILE/01	Gaurav	Customer	cnj@gmail.com	584121	24AMGPM7270G1Z0	AMGPM7270G	
FILE/02	Ankita	Customer	kmk@gmail.com	541212	24ANQPJ9049K1ZD	ANQPJ9049K	

Sheet2 - Imported

client_number	Name	client_type	email	phone	gstin	pan	
File/01	Aman	Customer	cneej@gmail.com	584121	24AMGHM7270Z1G0	AMGHM7270Z	
File/02	Sunita	Both	kmeek@gmail.com	541212	24ANQFJ9049F1M0	ANQFJ9049F	
					24ANQPJ9049K1ZD	ANQPJ9049K	
FILE/02	Ajit	Customer	kmk@gmail.com	541212			Should not import with same client number, human error