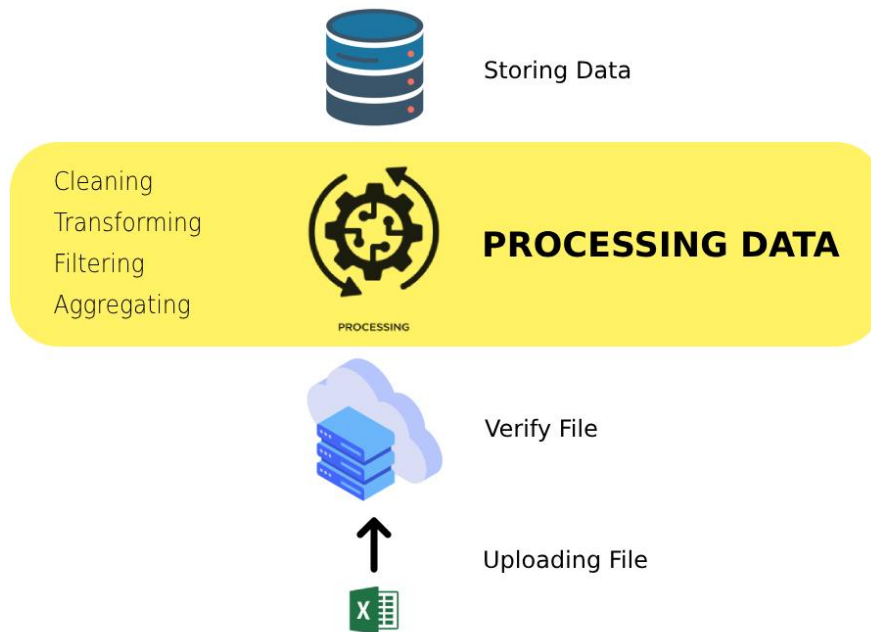# Overview of the Project Concept Idea

Framework and tools used for this Project.

- Frontend: React Js
- Backend: Nest Js
- Database: SQL (PostgreSQL/MySQL)

General Steps:

- Uploading file.
- Verify and validate the file.
- Processing the data.
- Storing data.

01 - Uploading file:

The user can either upload a file (preferred option) or enter the data manually, one by one.

file uploading involves creating a mechanism for users to select files, trigger an upload request, handle the transfer process securely, and confirm the upload once the file is successfully stored on the server or cloud storage.

02 - Verify and validate the file.

Before storing processing data, verify and validate the file to ensure it meets all necessary criteria and is free of errors.

03 - Processing the data:

The main approach to achieving the goal of this application is to focus on the data processing layer, making it as intelligent and dynamic as possible. To achieve this, we need to develop scripts and algorithms to filter, clean, match, and transform the data using a variety of techniques.

Once the processing layer is complete, it will summarize the results and output them for the client, as well as store them in the database.

04 - Storing data:

After processing, the data is stored in the database or storage system for future retrieval and use.

Why storing the data?

Storing data in an SQL database offers several advantages: it facilitates efficient and fast analysis, supports the implementation of various algorithms for smart predictions, and enables the creation of visual graphs to better understand and present the data.