# Code Sample

## Brief

Design a web application that processes account transaction data to calculate tax figures for a client tax return. We are interested in the data input/manipulation stage of the process which is achieved through an upload feature.

The transaction data has 4 columns: Account (text), Description (text), Currency Code (string) and Amount (decimal) and could be attached to a Database with 1m+ rows. The format of the data will be in Excel (xlsx) or CSV and each individual file could contain up to 100k rows.

## Requirement

To develop a small web application that does the following:

* Has a clear interface with menu bar for navigation;
* Allow the user to select a file and show the current file name (*only one of XLSX* ***or*** *CSV needs to be supported at this stage*);
* Allow the user to upload the content of the current file to a table in a SQL database;
* Each line of data should be validated before it is uploaded – all fields are required, Currency Code must be a valid ISO 4217 currency code and Amount must be a valid number;
* On completion, the number of lines imported and the details of any lines ignored due to failed validation should be shown;
* Allow user to see all the data transaction data in the system;
* Allow user to remove or edit the transaction data;

Any solution should demonstrate best practices where appropriate such as SOLID principles.

## To be supplied

* Assessment Code (ideally hosted via something like GitHub)
* Any database scripts
* Any setup instructions