STRATEGY:

# Processing the data (load\_new\_data function):

## Importing the data:

## Processing the data:

Each entry for a symbol appears as below:

|  |  |  |  |
| --- | --- | --- | --- |
| Symbol | isin | cusip | Hold |
| Symbol\_value | Isin\_value | Cusip\_value | Hold\_value |

The processing function needs to convert each row for the symbol from above to the below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Symbol | Hold | Country | Item | Item\_value | Updatedby | Updatetime |
| Symbol\_value | hold\_value | X | cusip | Cusip\_value |  |  |
| Symbol\_value | Hold\_value | x | Isin | Isin\_value |  |  |

Let’s address each specific column:

1. The symbol column is filled with the “symbol\_value”
2. The hold column is filled with the “hold\_value”.
3. The country column is filled by.:
   1. taking the first 2 letters of the “isin\_value”
   2. then comparing these 2 letters in the dictionary, producing the name of the country: “x”
4. The item column is constant across all entries.
   1. The first row states “cusip” and the second row states “isin”
5. The item\_value column is filled with the respective “cusip\_value” and “hold\_value”.
6. **Updated by …**
7. **Update time…**

# Saving the data (save\_new\_data function):

This involves appending/adding to the original dataframe.

Taking this into account, instead of “updating” the values if the symbol is already present, why don’t we instead just always create 2 entries for every entry and then just replace it if it is already present.

SO:

* If symbol is already **present**, then delete the previous entries.
* Is symbol\_value is **not present**, then just add the entries.

We also need to format the final database:

* Order alphabetically using symbol\_value.
* Reset the index.

Make sure that the database variable now includes this new data.

# Retrieving Data (get\_data\_from\_database function):

This is about printing the database. Unless there are specific technical requirements related to database entries, this should be relatively easy.