**Technical Design**

1. The headers in the file have been renamed and repositioned as per specifications
2. The name of the CSV file is represented as – country\_YMD\_HMS (**country\_20210304\_132130.csv**)

**Unit Testing**

1. We can do data validation before reading the data into the csv file:
   1. Check format of iso\_code\_2 (assess if it has 3 letters)
   2. Check format of iso\_code\_3 (assess if it has 2 letters)
   3. Check if the countries are valid and there aren’t any bogus entries
2. We can ensure that there are no NaN/error/Null values in the data before reading it into the csv file.

**Integration Testing**

1. Ensure that setting up and tearing down of the database is done every time we run the test
2. Ensure that the data cleaning process results in an appropriate dataset for further usage
3. Ensure that the complexity of accessing the database is not high

We should also note that the data on the website is in loaded in the correct format for conversion to csv.

We can also log all the unit/integration tests that have been recorded and work on them once all the tests have run.