Part-1

1.The system shall be able to scan the MRZ of a travel document using a hardware device scanner and get the information in MRZ as two strings (line 1 and line 2 from the above Figure). Note that you do not need to worry about the implementation of the hardware device. But you need to define this method for the software part. This means that you define an empty method for this function.

Seems fine as it mentions hardware is gonna perform a task to get two strings for your software, we are not interested in hardware’s approach of getting the strings.

2. The system shall be able to decode the two strings from specification #1 into their respective fields and identify the respective check digits for the fields, following the same format in the above example.

Here, we are not given the database of country and type of passport in string 1,

Even if we are to find letters associated with the country we don’t have a database to prove that it is a valid country, there is a possibility that everything else is correct and not only country, same goes for type of passport.

So, we need a dataset containing types of passports for countries.

3. he system shall be able to encode travel document information fields queried from a database into the two strings for the MRZ in a travel document. This is the opposite process compared to specification #2. Assume that the database function is not ready. But for testing purposes, you need to define a method for database interaction and leave it empty.

We will have to implement a database function before testing otherwise it doesn’t make sense.

4. The system shall be able to report a mismatch between certain information fields and the check digit. The system shall report where the miss match happened, i.e. which information field does not match its respective check digit.

Seems fine.