Documentation process for Fundamentals of Software testing project

- specify core elements of system

create demo connections of system

create simple inerataction

first test – offline verification techinques – luhn check

this is does since these elements can be verified without integration tests

(overall aporach unit tests → integration tests → system tests)

Assumption – date is inputted as follows – mm/yy

(write an assumption for all of the inputs that are received mocked and also set up)

assumption – there no limitations for address, name and ccv

assumption – the possible states of a transaction consist of

* capture
* void
* invalid
* refund?
* authorise

Valid Operations Step:

1. Verify Luhn
2. verification checks for other details
3. Authorisation request to bank
4. Record transaction
5. Capture

modified verifyLuhm from boolean to int

Payment process is the next one to be developed – the first tests for these are the expections as they are the simpler option to handle

Testing approach – start from edge cases then go into generic tests – this ensures better code coverage and that the system is tested fully

it is assumed that that the system will have some form of system to distinguish between a refund, capture and void operation. For my approach I am used an input argument.

Also the offline verification and bank authentication will always take place before each operaion

- working on transaction database as this is now required to store data and retreive information

Please note that the trasaction number received from the mock bank system is not the same as the transaction ID of the

when a transaction fails to carry out – no values are recorded in the transaction database

mention the assumed process of operation for the system

ie – offline verification and

it is assumed that the authentication step is not a transaction – thus it will not be included in the transaction database

it is assumed that for a refund to be called – a capture DOES NOT called needs to be carried beforehand as both functions are indepenent tasks

a transaction was only recorded when a successful result of obtained

for authorisation → it is assumed that a positive number is >0

since we do not have a valid transaction ID at the offline verification step – these checks cannot be included in the transaction database