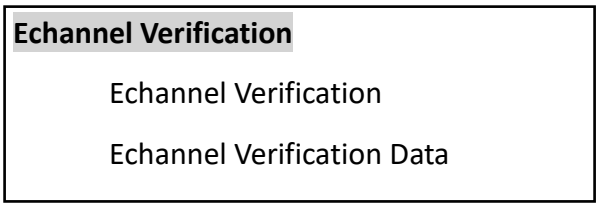
You are required to develop an Echannel Verification Application:

- data stored in an H2 database
- use a micro service approach so that the development done can be reused by other application and should be secured, maintainable and scalable.
- upload your final work together with the unit tests on GIT
- use of tech stack:
    - Angular 12+
    - Java 12+
    - Spring Boot
    - Camunda to design the flow and application (desirable)
- marks will be allocated to your design and implementation skills, coding practice, UX/UI of interfaces developed and use of micro-service approach.

Part A: Echannel Verification Application Menu

You are required to build an Echannel Verification application, so that a bank officer
The information required is:

- A login page taking user and password:
    - Have the user information in a DB
    - User table contains id, username, user name, user BU information.
- The following Menu needs to be shown in the left-hand side of screen
    - Echannel Verification
    - Echannel Verification Data



Part B: Echannel Verification Screen Menu

When clicking on Echannel Verification, the following screen should be displayed:

Display requests with status unassigned.

The columns need to be populated based on EVENT_SOURCE table

Column Name	Field
Created Time	created_on
Priority	priority
Source BU	source_bu
Reference	business_key
DCP Reference	dcp_reference
Account Name	account_name
Trans. Ccy	transaction_currency
Trans. Amt	transaction_amount
Locked By	locked_by

The Account Officer should be able to select a single or multiple requests (using the checkbox below Open Button) and click on Open to assign the request/s to himself.
The Account Officer should be able to click on any row and open a single request
The Account Officer should be able to select one or multiple request and click View Only.

When a request is opened,

- The Account Officer need to be able to see the original instruction (pdf viewer) on the RHS as shown in figure 1 below. The LHS screen is the input section – refer to figure 2.

Figure 1 – UI of Echannel Verification

Figure 2 – Input Section

The following fields need to be populated from data in table 'EVENT_SOURCE' (check Reference section for more details)

- Document Section (read Only)
  - Reference = business_key field from table
- Transfer Details Section (read Only)
  - Currency = transaction_currency field from table
  - Amount = transaction_amount field from table
- Debit Account Details Section (read Only)
  - Account No. numeric (length 12)= debit_account_number field from table
  - Name = account_name field from table
  - Currency = account_ccy field from table
- Beneficiary Details Section (read Only)
  - Name = beneficiary_name field from table
- Informative Markers Section (read Only)
  - Customer Informative marker description = cust_info_mkr field from table
  - Account Informative marker description = account_info_mkr field from table
- Call back info Section (All fields are Amendable and Mandatory)
  - Outcome – dropdown list
    - Successful
    - Cannot Reach Customer (On Hold)
    - Cannot Reach Customer (Discrepancy)
    - Reject
  - Extension
  - Contact person
  - Customer called on
  - Comment

The value entered in Call back info Section must be saved in the event_source table:

The user id of the person amending the request must be saved in field updated_by in table event_source.

The date & time amendment was done must also be saved in updated_on in table event_source.

When clicking on Proceed button at the top

1. Update field status to 'Proceed' in event_source table
2. Exit the flow

When clicking on Reject button at the top

3. Update field status to 'Reject' in event_source table
4. Exit the flow

Part C: Echannel Verification Data Menu

The following table must be displayed as result.

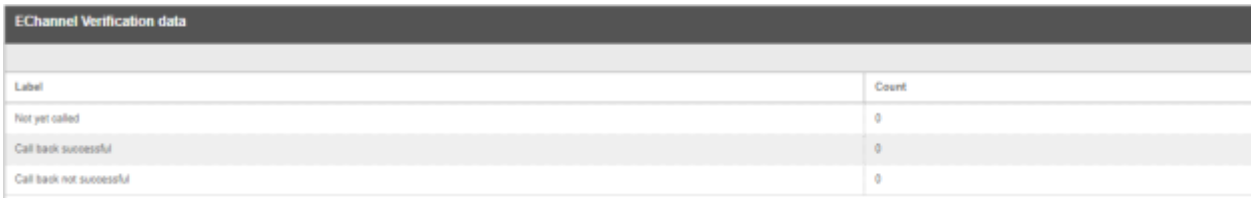


Figure 3 – Statistics

Not yet called – Display count if field status = ‘unassigned’
Call back successful – Display count if field status == ‘Proceed’
Call back not successful – Display count if field status == ‘Reject’

Reference:

EVENT_SOURCE table definition

Field Name	**Field Type**
business_key	Varchar2
priority	Varchar2
source_bu	Varchar2
dcp_reference	Varchar2
account_name	Varchar2
transaction_currency	Varchar2
transaction_amount	Number
locked_by	Varchar2
debit_account_number	Varchar2
account_currency	Varchar2
beneficiary_name	Varchar2
cust_info_mkr	Varchar2
account_info_mkr	Varchar2
outcome	Varchar2
extension	Varchar2
contact_person	Varchar2
customer_called_on	Varchar2
comment	Varchar2
created_by	Varchar2
created_on	DateTime
updated_by	Varchar2
updated_on	DateTime
status	Varchar2 (values : Proceed, Reject, unassigned)