

## Overview

I analyzed the report structure that is required, I filtered out the values that can be generated by the system and the ones that can be manually inserted.

## Problems encountered

On my own perceptions, I realized most of the values that can be generated by the report are manually registered as the system doesn't contain such data values.

### 1) MSP02\_01 The first tab

This report has up to 61 fields, of which its [ 18 (a) Loan to clients and 21 (d) Accrued Interest onLoans] are the only fields that can be fetched from the database.

### 2) MSP2\_02 Statement Of Income and Expense

This report tab has up to 41 data rows, the system can provide [2 a. Interest - Loans to Clients, 18 b. Fees] other values have to be manually registered

### 3) MSP2\_03 Classification Of Microfinance Loans

This section could be easily generated, but there comes a challenge of calculation of current amount, past due fees. ESM, Substandard, Doubtful and Loss Values. I could interpret these as loans with penalties but I need more clarification with the meanings of these columns.

### 4) MSP2\_04 Types of Microfinance Loans

This report section can be generated dynamically by the database, the incurred problems are the types of the microfinance loans, it displays a list of loan product types. These can be written as seeders and pre-populated in the system by default but according to the loan product type schema, it requires a type of interest to be assigned and fees that can be incurred. I need more clarification on how this will be handled should the system load only loan products created by the microfinance or these are fixed

loan products microfinance institutions should have. And do these loan products have both straight-line and reducing balance amortizations?

5) MSP2\_06 Complaint Reports

This section includes a list of complaints, this is a section that a system should have to enable easy calculations of the reports, however since its not provided, it asks for manual data entry.

6) MSP2\_07 Financial Institutions

This is a section that represents deposit and borrowed amounts, again this is a section that can be analyzed and a schema is drawn to accommodate the values but since the system doesn't have these inbuilt it calls manual input of the values. It makes the calculations a bit complicated.

7) MSP2\_10 Geographical Distribution of branches

This section calls for listing sections in a given branch with employers, borrowers and so on. If possible it would call for analyzing to see how this can be embedded to the system.

## Observations

The reports sections and their various calculations aren't complicated but due to organizing the report to include both manual and automated inputs and calculations it brings up a situation where the customer will ask for all these manual inputs to be automated in the future. Most items could be created and added to the system as modules to enhance the generation of these reports.

## Current Solution

Currently I came up with a solution of creating report schemas to save the details of a particular quarter in a way that captures the system values automatically and will require a user to enter

non system data manually. For instance a user begins starts by creating a quarter report and provide periods range

### Edit Bot Report

\* Title

\* Period From

\* Period To

Description

This allows the user to choose between different reports that can be customized and its data to be validated before submission.

Next, a user is allowed to choose from list of quarter reports, and use it to prepare a report

### BOT Reports

BOT Reports List

10 entries per page Search:

NAME	PERIOD FROM	PERIOD TO	DESCRIPTION	ACTION
BOT Report Quarter III 2024	01/06/2024	30/09/2024	Facilis assumenda si	<input type="button" value="edit"/> <input type="button" value="delete"/>

Showing 1 to 1 of 1 entry

Once a given quarter report is selected, you will be redirected to the BOT report tabs.

**BOT Report Quarter III 2024 between 01/06/2024 and 30/09/2024**

MSP2\_01   MSP2\_02   MSP2\_03   MSP2\_04   MSP2\_05   MSP2\_06   MSP2\_07   MSP2\_08   MSP2\_09   MSP2\_10

SNO	PARTICULARS	AMOUNT	VALIDATION
2	1. CASH AND CASH EQUIVALENTS (sum a:d)	<input type="text" value="Enter Amount"/>	<input type="text" value="Enter Amount"/>
3	(a) Cash in Hand	<input type="text" value="Enter Amount"/>	<input type="text" value="Enter Amount"/>
4	(b) Balances with Banks and Financial Institutions (sum i:ii)	<input type="text" value="Enter Amount"/>	<input type="text" value="Enter Amount"/>
5	(i) Non-Agent Banking Balances	<input type="text" value="Enter Amount"/>	<input type="text" value="Enter Amount"/>
6	(ii) Agent-Banking Balances	<input type="text" value="Enter Amount"/>	<input type="text" value="Enter Amount"/>
7	(c) Balances with Microfinance Service Providers	<input type="text" value="Enter Amount"/>	<input type="text" value="Enter Amount"/>
8	(d) MNOs Float Balances	<input type="text" value="Enter Amount"/>	<input type="text" value="Enter Amount"/>
9	2. INVESTMENT IN DEBT SECURITIES - NET (Sum a:d minus e)	<input type="text" value="Enter Amount"/>	<input type="text" value="Enter Amount"/>

These options would enable a user to navigate different tabs and investigate to see if the values match up to the accounts and are correct. Upon inspection and entering the required values, a user is allowed to save the values to the database for future use. Therefore enabling the option for exporting the details in an excel or pdf format.

What do you suggest?