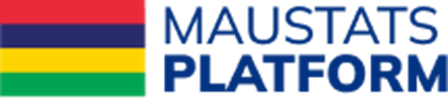
**BUSINESS REQUIREMENTS DOCUMENT (BRD)**



Business Requirements Document (BRD)

*Modern Statistics Platform*

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Date | Reasons of Changes | Version |
| iTM | 26th September 2024 | The first draft of SBR MauStats. | V1 |

**Table of Contents**

OVERVIEW 3

THE PLATFORM 3

FUNCTIONAL REQUIREMENTS 4

1.1Pre-Registration 5

Export Data 5

Import Data 6

1.2Registration 7

ANNEXURE - DIAGRAMS AND FLOW CHARTS 1

# OVERVIEW

This Functional Requirements Document (FRD) describes a software system and its components. It helps to capture the intended behavior and capabilities of the GEG MIS Extension that the team can agree upon. It will capture a list of requirements statements organized by the extended features of the GEG MIS platform with identified priorities.

It will further ensure that the team working on the project fully understands the requirements and is concentrating their efforts on developing a solution that will satisfy the expected results.

# INTRODUCTION

The Modern Statistics (MauStats) Platform is developed as a web-based platform with a central database to ensure consistency, security, and accessibility. The platform is used to help automate and integrate the data lifecycle from acquisition to dissemination using the Generic Statistical Business Process Model (GSBPM) framework. The platform complies with managing data requirements for Census, SEE, and SBR processed data in this phase. It is also feasible for data integration based on SM requirements. This web-based platform consists of two applications – User Interface and Data Management System (DMS).

The below sections explain the detailed functional requirement of each module of the Modern Statistics (MauStats) Platform.

# Functional Requirements

The platform integrates ChatBot. This ChatBot will utilize a menu-driven selection process followed by text input to retrieve relevant data from a backend service.

The primary objective of this Chatbot is to develop a user-friendly chatbot that enables users to:

* Select a category of information from a predefined menu.
* Choose specific topics or queries related to the selected category.
* Enter additional text queries for more detailed information.
* Receive responses fetched from a backend API, improving the accessibility and usability of statistical data.
* Creation of a conversational flow to guide users through various queries.

The detailed functional requirements as per the scope are explained below.

**Functional Requirements**

|  |  |
| --- | --- |
|  | Provide a visible **Chat Button** after user login. |
|  | Provide a welcome message upon user initiation, to encourage interaction. |
|  | Provide a First-level **Question** and **Button** **List** for the selection of:   1. Primary Data Manager 2. Secondary Data Manager |
|  | For Second Level Selection, provide a relevant message and Button List:   1. For Primary Data Manager –    * Primar data    * Visualization    * Gallery    * Dashboard 2. For Secondary Data Manager –    * SEE    * SBR    * Topic and Sub Topic    * Demography    * Trade    * Resource    * Classification    * GIS    * Report    * Import    * Export |
|  | For the Third Level of Selection Provide relevant Message and Button List for:   1. User Guide 2. Data Retrieval   each level of selection which will help in targeting the module where the query will be processed. |
|  | Enable the text input field once the user enters the target module and processes additional queries.  The chatbot shall fetch data from the backend API based on the selected module and topic when the user presses the **Enter** or **Send Button**.  The contextual response will be displayed in the ChatBot in the form of text or URL. |
|  | Every chat will be stateless and it treats each conversation as independent and doesn't maintain context or memory of prior exchanges. |
|  | Ask clarifying questions if user input is ambiguous or insufficient to generate a meaningful response.  Display a list of sample queries or topics to assist users in formulating their questions. |
|  | Handle multi-part queries (e.g., “Show me the mean and median for the last five years”) and provide consolidated responses. |
|  | Provide meaningful **error** messages in case of failures (e.g., API failures, no data found) to assist users in troubleshooting. |
|  | After every successful response, the chatbot should ask to **Continue** or **Exit**.  To **continue**, start with the initial selection menu.  For **Exit**, a feedback option where users can rate their experience and provide comments on the responses received and a closing chat message will appear and the chat session will be closed. |



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