DFA
Data Manager

Strengthening a centralised data warehouse to leverage the richness of data originating from various sources.

DFA Data Manager

DFA Data manager is an open source, online platform that allows administrators to manage, edit and publish data. This is a platform that makes streamlining of data and its management easier. The system assists administrators in creating indicators, selecting units and creating groups and subgroups to customise the data that they showcase. Administrators can then populate the data warehouse through online or offline mode.
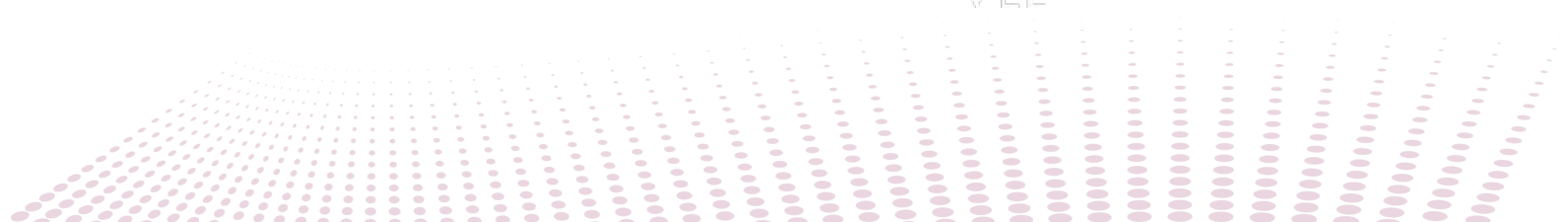
▶ Why use DFA Data Manager?

The system is easy to navigate and equips administrators to bring data from various sources and time periods in one data warehouse.

Furthermore, the data warehouse managed through the DFA Data Manager is then connected to various DFA Data dissemination tools.

▶ Implementations

▶**National**: Algeria, Botswana; Egypt; Guyana; Jamaica; Jordan; Trinidad & Tobago Ivory Coast, Malawi, Tunisia, Mali, Togo etc.

Features

▶ **Indicator Unit Subgroups** Feature to develop a database with custom indicators that can be disaggregated by subgroups for defined units. There is no limit for the number of indicators.

▶ **Indicator Metadata** Feature to define the metadata for the indicators. The metadata category can be customised.

▶ **Classification** Feature to define the classification for the indicators. Various types of indicator classification are possible - sector, goals (ex. SDG), theme, framework, etc.

▶ **Source** The data warehouse can contain data from various sources. Administrators can create their source (ex. Census, Surveys, sector data etc) as per the data files.

▶ **Area Management** The data warehouse can contain multiple area levels depending on the type of data. For ex. L1 - India, L2 - States, L3 - Districts, L4 - Blocks. The data manager will allow the administrator to create these areas depending on the need.

▶ **Time period** Data Warehouse allows reporting for various frequencies (ex. Annual, bi-annual, monthly, daily etc.)

▶ **Data Validation** Feature to define the minimum and maximum values expected for specific indicators. This ensures quality data to be entered in the data warehouse.

Features

▶ **Data Entry** Provides a dedicated module for online data entry.

▶ **Offline Mode :** Features to manage the template development and data entry offline in a predefined Excel format.

▶ **User Management** Feature to create users with different profiles - Administrator, Template manager and Data Entry, This allows to decentralise the process of data entry and database management.

▶ **Transaction Log** Feature that records the activities of all logged-in users for more transparency on the data warehouse management,

▶ **Language customisation** Feature that allows to have multilingual data warehouses.

▶ **Publish to Mobile app** Feature that allows to publish the data warehouse to the DFA Charts application for Android and IOS phones.

▶**Review/Publish Data Warehouse Workflow** Feature to set up a development data warehouse and a production data warehouse. This allows to help manage data review before it gets disseminated in the DFA Visualiser, DFA Dashboard, DFA Profiles etc.

▶ **Calculate Engine** Feature to setup defined formula against indicators. For example, for a given indicator Male + Female = Total. Also setting up formula to calculate a percentage indicator.

Technology Stack

DFA Data Manager

FRONT END	Angular JS HTML CSS
BACK END	Cake PHP 3.10 PHP 7.4
DATABASE	MySQL 8.0

Restful API