

Software Engineering and Human Computer Interaction Group Projects

Project Title: Web Portal

A web portal is a platform that provides employees, customers and suppliers with a single access point to information. DHIS2 Dashboards serve the functionality of providing information to users about different configured indicators and data presentations like maps, charts, pivot tables and single values. The drawback with DHIS2 dashboard is that it can only be accessed by users who are logged in into that DHIS2 instance.

In this project, you will have to create an application (Web portal) which will give the public access to configured dashboards in DHIS2 without logging in into the system. It will use the already configured dashboards in DHIS2 and present them outside of DHIS2. See as [Tanzania HMIS Web Portal](#) as an example.

Project Title: Similar Time periods across years

In DHIS2, data is defined with three dimensions namely: WHAT (what data), WHERE (where it is collected) and WHEN (time or period). As such, when doing your analysis whether it is in Pivot Tables, Visualiser or Maps you have to define those three dimensions for you to pull the data in DHIS2.

There is a need to compare data across similar periods but in different years. For example, show the available maize in October 2019 and pull data as well for October 2018. Currently, there is no direct way of achieving this as such, you have to create a custom app in DHIS2 which will have the extra required period.

Project Title: Program Rule Variables

In DHIS2 program rules are used to create logic in data entry forms. When creating these rules, you make use of program rule variables which are attached to data elements. To create these program rule variables, you use an application where you create a rule variable and attach it to a data element. This follows a repetitive process which is time consuming and tiresome.

As such this project targets the development of an app where you these variables can be created automatically from where you are assigning data elements to a program.

Project Title: Program Groups

DHIS 2 provide a list of programs from which a user can select to enter data. The current list does not provide much information about each program.

This project targets the redesigning of this page to have a tile view for the list of programs and provide some quick information about the program.

Project Title: Tracker Capture Landing Page

This project targets the reorganization of elements on the landing page of a tracker program to conform with HCI design principles.

The screenshot displays the 'Household Registration Form' in the DHIS2 NAMIS application. The interface is organized into several sections:

- Enrollment:** Includes a 'Selected program' section with fields for 'Enrolling organisation unit' (Chadza 1), 'Start date' (2019-09-03), and 'End date' (2019-09-03). It also features 'Other programs' with a message 'No active enrollments exist'. Action buttons 'Complete', 'Deactivate', and 'Delete' are present.
- Indicators:** A section indicating 'No indicators exist'.
- Timeline Data Entry:** Shows a report date of '2019-09-02' and a due date of '2019-09-03'. A status box indicates '2019-09-02 Chadza 1 Household Registration (completed)'.
- Household details:** A table for entering household information:

Name of household head	Training
Name of spouse	Teaching
Household head national identity number	34589347KLK
Spouse national identity number	B843753KJ65
Sex of household head	Male
Sex of spouse	Female
- Feedback:** A section indicating 'No feedback exist'.
- Profile Edit:** Includes fields for 'Household Name' (Missed) and 'Household Coordinates' (Latitude and Longitude).
- Relationships | Add:** A section indicating 'No relationships exist'.
- Notes:** A section with a text area for 'Your note here' and 'Add' and 'Clear' buttons.