



DHIS2 for Education

Nigeria



UiO : University of Oslo



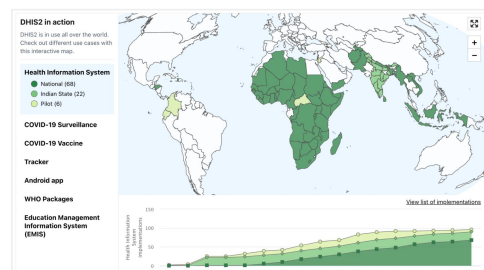
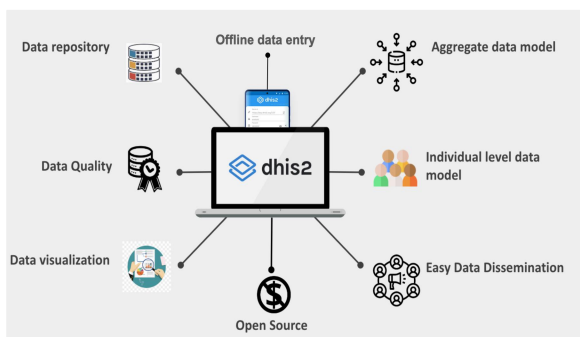
DHIS2 Overview

Training Objectives

- To introduce participants to the use of EMIS digital reporting.
- familiarize participants with the use of the digital EMIS Reporting platform
- equip participants with the skills needed to capture and monitor data reported on the digitised EMIS platform

DHIS2 - A Digital Global Public Good

ZERO Licensing fees, **Mature API** for interoperability, **Inbuilt easy to use** and awesome Analytics



What is DHIS2?

- A tool for data collection, validation, analysis, and presentation of data, tailored to integrated information management activities
- World's largest MIS platform, in use by over **80** low and middle-income countries.
- DHIS2 software development is managed by the Health Information Systems Program (HISP) at the University of Oslo (UiO). HISP is a global network comprised of 11 in-country and regional organizations, providing day-in, day-out direct support to ministries and local implementers of DHIS2.

Why DHIS2?

- **Accessible and affordable:** Free, open-source platform. Doesn't need licence renewals.
- **User friendly interface:** Forms similar to the paper tools. No programming skills required to customise programs on the platform.
- **User management:** Approvals and different levels
- **Multi platform:** Supports both web and android platform. Supports many data types - both casebased and aggregate data
- **Offline** data entry
- **Messaging** Functionality
- **Interoperable:** Web API that allows integration with other systems. Custom apps. Import- export.
- **DHIS2 community:** 6,000 active users from 160 countries

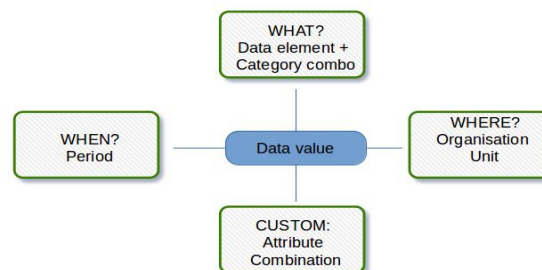
DHIS2 Terminology

- **Organisation units:** These are organisational structures of an entity; like administrative areas and other geographical areas arranged with respect to each other. For example, Abia State, North LGA, Ariara ward, Ariara P.S
- **Data elements:** Define what is actually recorded in the system, for example number of learners in a class. Data elements can be broken down into smaller components. For example, the number of female learners in S.1
- **Data set:** A collection of data elements grouped together for data collection e.g, Annual Education Census Questionnaire
- **Indicators:** A calculated value. It can consist of multiple data elements, constants, organisation unit group counts and mathematical operators

Data Dimensions (3 Ws)

A data value in DHIS2 is described by at least three dimensions:

- What
- Where
- When



These dimensions form the core building blocks of the data model (3 Ws)

WHERE Dimension

- Defines **where** the data is coming from. Is the organisation unit. For example, if data is coming from Ariara P.S, The school is the where (organisation unit)
- Data is collected and reported at the Lowest Level
- Data is automatically aggregated up the hierarchy
- Organisation Units can be grouped to refine analysis like in levels,ownership (private, Government,etc) etc



WHEN Dimension

- Defines the **period** the data is reported for
- Organised by period types/frequencies - Monthly, yearly, six monthly, daily, etc.
- Relative and fixed periods



WHAT Dimension

- Defines the **data** is collected, reported and analysed; for example, the number of Learners in S.1
- Data elements
- Indicators
 - Data Elements
 - Routine data element, semi permanent data, infrastructural

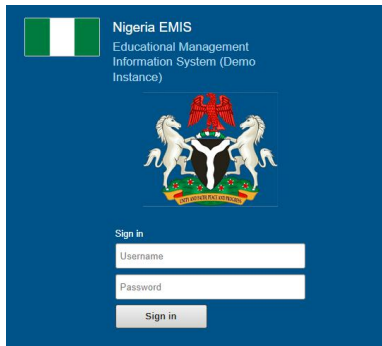


DHIS2 Data Capture

System Access

Requirements

- A computer/tablet
- Internet connection
- An updated web browser



User Login

1. Open the web browser (**Google Chrome or Firefox**)



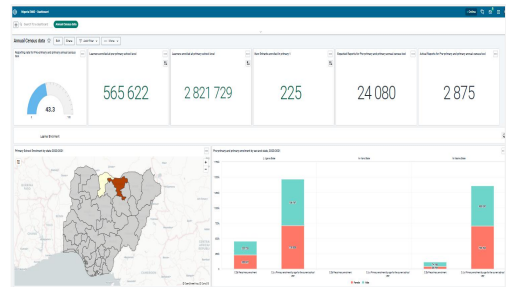
1. Type the host URL:
<https://emistraining.dhis2nigeria.org.ng> in the address bar.
2. Enter username and password. Please note that the **username and password are case sensitive**.
3. Username: Kaduna_EMIS
4. Pwrod: P@\$w0rd2
5. Click sign-in



Dashboard Navigation

Dashboards

- Accessible through the dashboard app
- DHIS2 dashboards provide quick access to different analytical objects (maps, charts, reports, tables, videos, etc) to user(s)
- Items can be grouped into several dashboards
- Are dynamic
- Can be shared with users or user groups



Data Entry

DATA ENTRY



Data Entry



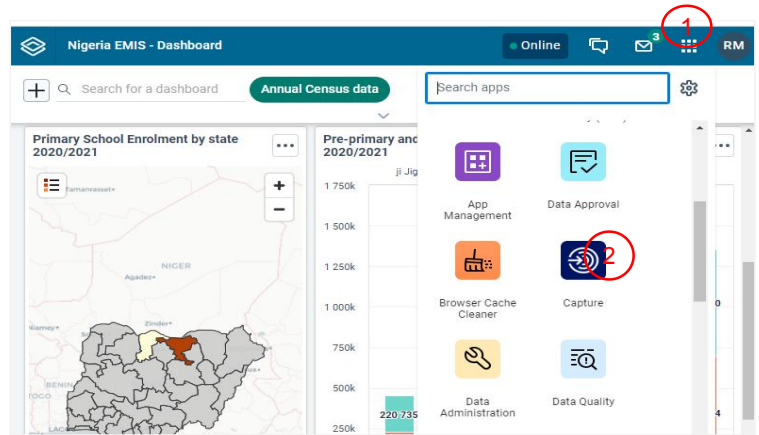
Capture

Web Data Entry

For entry into the Instructors and teachers Registration and Learning Institution/Centre Profile and facilities Event Forms;

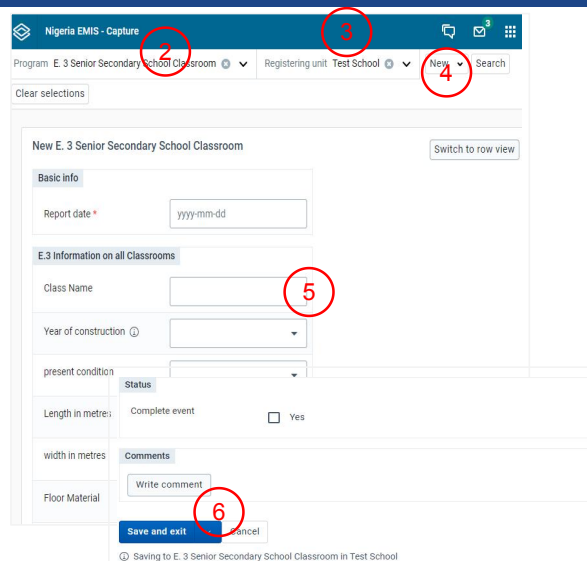
1. Access the Capture App

- Open the app menu located in the right-hand corner of your dashboard
- Select the **Capture** App by clicking on it once



Web Data Entry

2. Select the program, e.g. E.3 Senior Secondary classroom.
3. Search or select the School (organisation unit), e.g. Test School
4. Choose New in E.3 Senior Secondary classroom in this example to open the data entry tool for filling
5. Key in data in all the text fields
6. Click **save and exit** to exit the data entry module, **save and add another** to get a fresh empty tool for filling or **Cancel** to discard the entered data

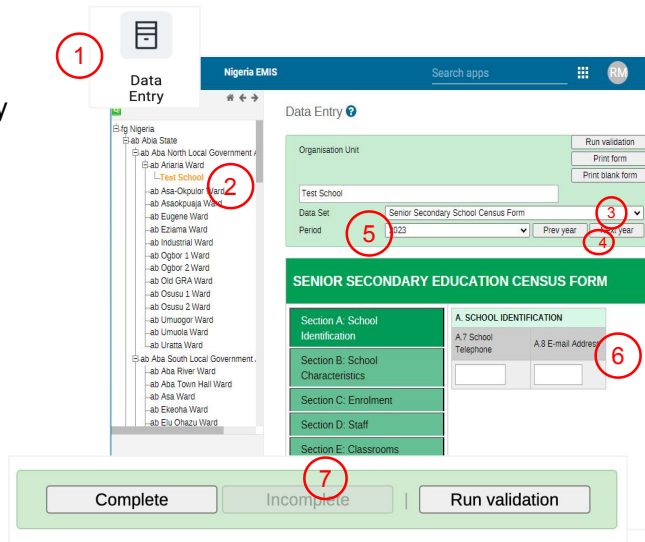


Web Data Entry

For entry into Enrolment details

Aggregate Form:

1. From the Apps menu, click the Data Entry icon
2. From the Data Entry app, select the **Test School**
3. Select the Dataset for data entry
4. Select the **Period** for which data is being captured.
5. The data entry form / dataset displays, prompting the user to capture data the provided fields in the different sections.
6. Run validation.
7. Click Complete.



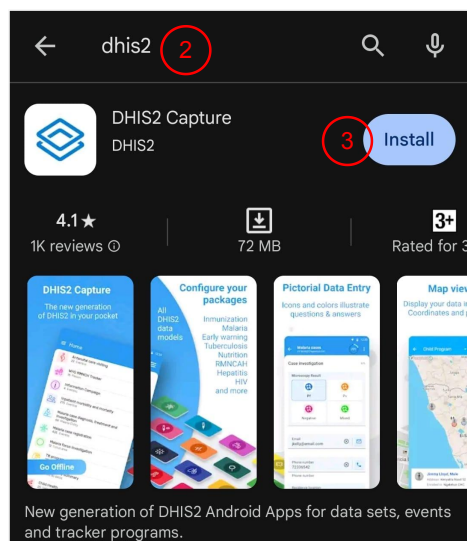
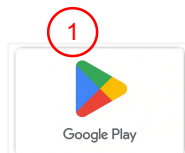
Android Installation

Requirements

1. Mobile device - tablet/smart phone
2. Internet connection

Download the Application

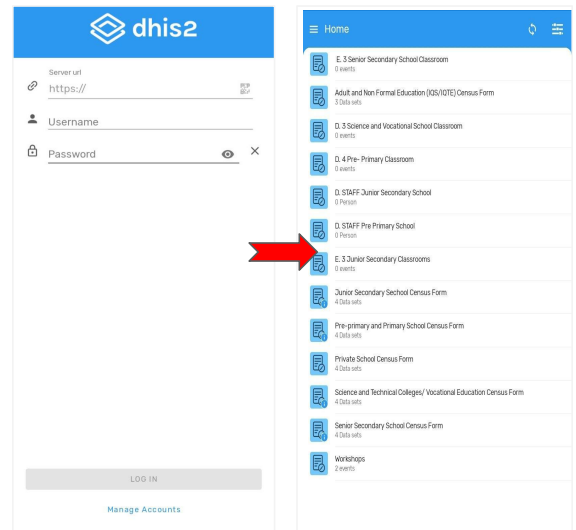
1. Go to Google play store
2. In the search bar, type in DHIS2 capture
3. Tap on the Install button to install the application



Android Data Entry

User Login

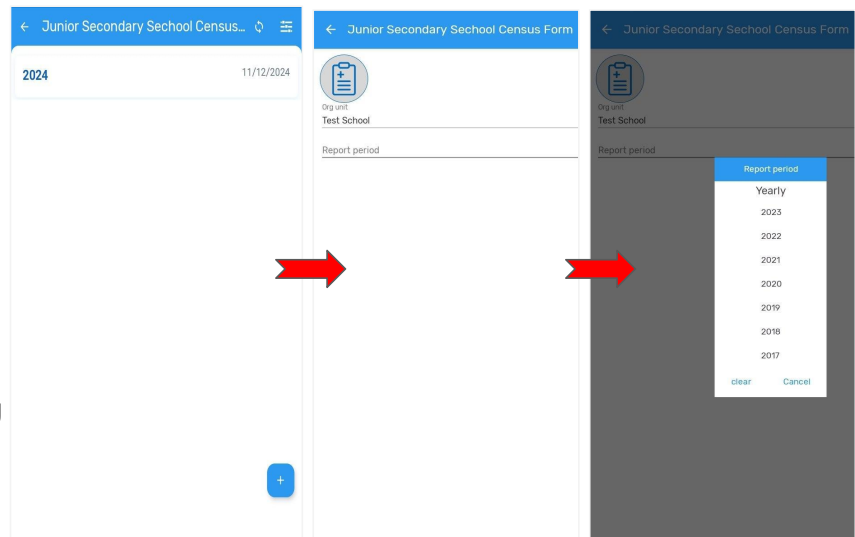
1. Open the app
2. Type the host URL:
<https://emis.dhis2nigeria.org.ng/dhis> in the address bar.
3. Enter username and password. Please note that the **username and password are case sensitive**.
4. Tap Log in
5. Select the module in which data is to be entered by tapping on it e.g Senior Secondary School. You will be taken to a page that shows records already entered



Android Data Entry

Data Entry

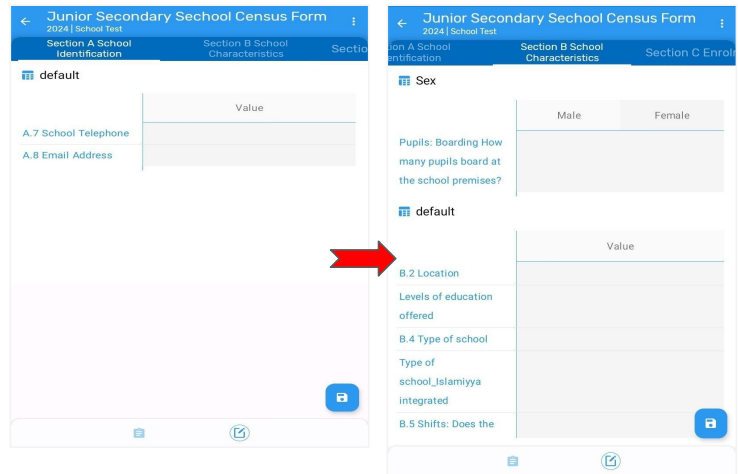
1. Tap on the plus sign in the lower right corner of the phone screen
2. Choose the school from the org unit hierarchy
3. Choose the reporting year from the calendar



Android Data Entry

Data Entry

4. Tap **Next**
5. The first section is automatically open for data entry
6. Go through it and enter all the data for the section. Click **Next** to go to the next section, or use the top section bar to open the next section for data entry

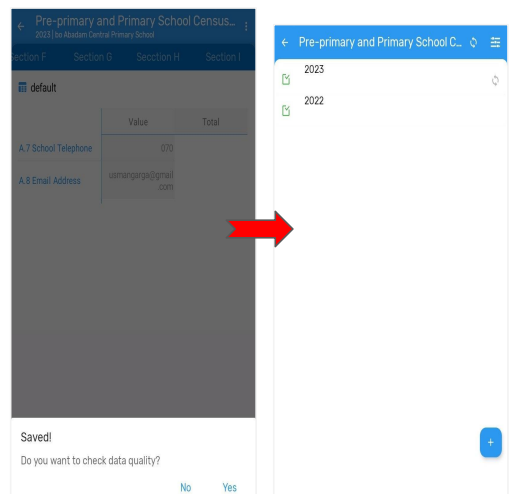


Android Data Entry

Data Entry

7. When all the data for all the sections is entered, tap on the save button in the lower right hand corner to save/submit the data. Choose **Not Now** to save the form and go back to the event listing screen. The status of the event will remain open, **or you can** choose **Complete** to save the form and go back to the event listing. The status of the event changes to completed.

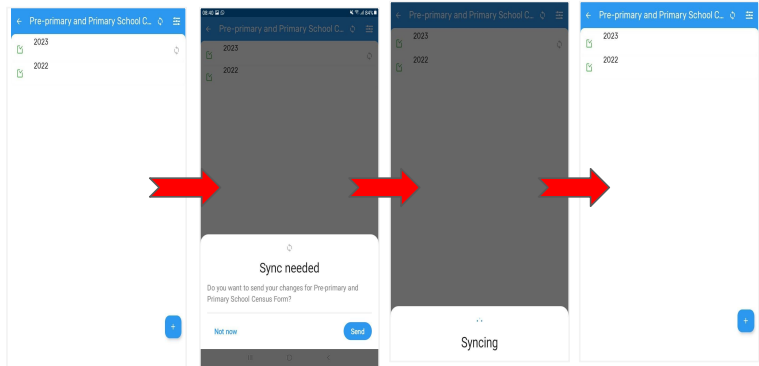
Please note: during the data entry process, a percentage of the form that has been entered will be displayed in the upper right hand corner.



Android Data Entry

Synchronize data to the Server

1. You will notice **two gray arrows** facing away from each other next to the newly saved forms. This is because the record is saved locally on the device and not yet synchronised with the server
2. To synchronize the data with the server, tap on the two arrows
3. Choose **Send**
4. The data will sync with the server. The two gray arrows will no longer be visible



Exercises and Presentation

Demo- Android Data Entry (Tracker/Case Based data

- **Staff Data**
- **Classroom Data**
- **Workshops Data**



Exercises and Presentation



Demo- Monitoring Data Reporting (Expected and Actual Reports)



Thank You