

Overview of Bayanati /My Data/

UNICEF Jordan country Office

I. Bayanati System introduction

Bayanati is the UNICEF web-based data management system which has been developed and deployed in Jordan to support the real-time monitoring of UNICEF supported activities and Implementing Partners' IPs performance against the set indicators as the Programme Cooperation Agreement including Programme Documents.

The application is designed to facilitate information management for monitoring and reporting purposes.

Bayanati allows UNICEF-Supported Community Based Organizations (CBO's) to register beneficiaries, track their access to services as well as their progress over time. CBO's use Bayanati on a daily basis to record daily attendance of beneficiaries and referrals of specific cases to a range of services offered by other agencies.

An offline mobile-application is also available to facilitate Bayanati data entry in location with limited access to internet.

II. Bayanati Main modules

Below is a summary of Bayanati main modules and key functionalities:

1. Beneficiary Registration:

Data collected for beneficiaries who are either accessing structured activities in the CBO's or are subject to referrals services in the CBO.

Household level data: Nationality, registration documents, age and sex of head of household, contact information, and other information

Beneficiary personal data: individual level data that includes but is not limited to: name, date of birth, sex, nationality, school enrolment status, education level, reasons for dropping schools, disability-related data, child labor.

2. Class/Activity schedules and daily attendance

Allows CBO's to design and manage schedules of sessions offered in the center by cycle/semester, by program, by subject and level. Allows CBOs to specify dates and times of each session, whether in class or online, enroll individuals in each of the schedules, ensure they are not enrolled in conflicting schedules within the center or across centers, record their scores of relevant tests for each schedule, and record daily attendance for each beneficiary in each activity/session/schedule.

3. Referral of individuals

When the CBO staff refers an individual to a service that isn't provided in the center. They record referral specific data that is consistent with the inter-sectorial referral from.

Bayanati facilitated referral process by allowing referred cases to be delivered to case managers as per the referral pathway.

4. Staff information

Data of the CBO staff is recorded, indicating the trainings obtained by UNICEF and UNICEF Implementing Partners.

5. Interactive Dynamic Dashboards

Dynamic interactive dashboard of key performance indicators is plugged in Bayanati on CBO, IP and UNICEF levels, dashboards cover the below components

- Program coverage
- Performance monitoring: access to service Reached Vs Targeted; and
- Attendance rates

6. Online reports

Customized online reports are generated and can be extracted from Bayanati reflecting real-time data to enable monitoring, quality control and reporting related processes at the CBO, IP and UNICEF programs level.

These reports are designed by UNICEF team using crystal reports, then uploaded to Bayanati system specifying authorization to access at levels of center, IP or program officer.

Example of reports:

- Beneficiary registration report
- Activity/class participation report
- Daily attendance report
- Staff data report

III. Data usage

Monitoring program coverage and performance:

On the program level, Data recorded in Bayanati is used to understand program coverage and the characteristics and needs of UNICEF beneficiaries (children, youth and adults). It's also used to monitor performance of IPs in relation to access to services as agreed in the program documents' targets and KPIs.

On the CBO and IP level, Bayanati is used to support daily operations and monitor access to services and daily attendance of beneficiaries.

Research and evidence generation

Data of Bayanati also supports research and evidence generation and is often used as sampling frame for many studies related to children and adolescents.

Program reporting:

On the program level, Bayanati data feeds to program and donor reporting.

On the IP level, Bayanati data feeds into monthly, Quarterly reports, UN level reports such as activity Info, and UNICEF sitreps, quarterly, midterm and annual reports.

Support evidence-based program planning and implementation

Bayanati data has been used to inform programmatic shifts. Examples are makani rationalization exercise, Learning for All campaign, Covid19 response, etc...

IV. Bayanati technology

The Web part of the system (the online version) developed under the .NET Framework (which is a software framework developed by Microsoft that runs on Microsoft Windows) using C# as the main programming language beside other languages & technologies like JavaScript, jQuery, HTML and CSS and to provide a consistent and appealing experience to users, where they interact with the system pages and forms.

The Web version is connected to Microsoft SQL Server (a relational database management system developed by Microsoft) to store and retrieve the data from the system, Entity Framework is used to connect the database server and the Web application.

Regarding the Android app (the offline version), the used technology to build the app is Xamarin / C# and the app is connected to a SQL lite database to store the data locally on the cell phone before syncing it to the main database using an API, when there is an available internet connection to connect to the servers from the cell phone.