JPHES APIs for Data Import & Mapping

To import data into JPHES Platform via API the following attributes should be mapped in a CSV/JSON/XML file:

1. Organisation Unit(The reporting level -National, County, Subcounty, Ward Or Facility)-Where?
2. The Reporting Mechanism Unit (e.g AfyaUzazi, AfyaHalisi ..)-Who?
3. Reporting Period(Quarterly or Financial Oct)-When-?
4. Data Element - What?(Cross check the value type-Numeric or textual)
5. Dis-aggregations -(Male, Female) What?
6. Value
7. Reporting User(JPHES Username)

A: Using the JPHES Portal API

1. How to get the organisation units

This API endpoint is dynamic and provides the list of organisation units in the platform.

URL:https://jphesportal.uonbi.ac.ke/api/organisationUnits.json?paging=false&format=json&fields=id,name,code,level&filter=level:in:[2]

API Attributes:

1. format=json(default) or format=csv or format=xml
2. level:in:[1,2,3,4,5] , level 1- Kenya, 2-Counties, 3- Subcounties, 4- wards, 5- facilities, 6- community units

Sample Output:

```
{
    "organisationUnits": [
        {
            "code": "14180",
            "level": 5,
            "name": "10 Engineer VCT",
            "id": "Vh676wb3d16"
        },
        {
            "code": "17486",
            "level": 5,
            "name": "12 Engineers",
            "id": "gPEGZGkfDWa"
        },
        {
            "code": "18393",
            "level": 5,
            "name": "3Kl Maternity & Nursing Home",
            "id": "KZ8mcWp8Mmo"
        },
```

Fig. JSON Output - Organisation Units(id,code,level,name)

2.How to get reporting mechanism units?

This API endpoint provides the list of all mechanism units(implementing partners).

URL:
https://jphesportal.uonbi.ac.ke/api/categoryCombos/r5UaQuVAMPP?fields=categoryOptionCombos[id,name]&format=json

API Attributes:
1. format=json or format=csv or format=xml

Sample Output:

```
▼ {
    ▼ "categoryOptionCombos": [
        ▼ {
            "name": "APHIAplus Nyanza — Western",
            "id": "tAOVWgFDkHR"
        },
        ▼ {
            "name": "Nyanza Reproductive Health Society",
            "id": "Rh7PyKnbhpe"
        },
        ▼ {
            "name": "University of Nairobi — CRISSP",
            "id": "vBoLGyZFpI3"
        },
        ▼ {
            "name": "MSH/Strengthening Public Health Laboratory Systems",
            "id": "X8Yx7VjZn5Y"
        },
        ▼ {
```

Fig. Mechanism Units (CategoryOptionCombos -[name,id])

3. How to get the Reporting Period Format?

The API Period format is summarized in the table below:

Period Type	Format	Example1	Description
Quarter	yyyyQn	2017Q4	*October-December 2017*
		2018Q1	*January - March 2018*
		2018Q2	*April - June 2018*
		2018Q3	*July -Sept 2018*
		2018Q4	*October -December 2018*
Financial Year October	yyyyOct	2017Oct	*Oct 2017-Sep 2018*

NB: This should be mapped based on the reporting period of the **dataset**.

4. How to get JPHES datasets?

This API endpoint provides a list of the performance,target and narrative datasets, and their reporting periods.

URL:
https://jphesportal.uonbi.ac.ke/api/dataSets.json?paging=false&filter=name:ilike:2018&fields=id,name,periodType

Sample Output:

```
▼ {
  ▼ "dataSets": [
    ▼ {
        "name": "County Performance - Rev. 2018",
        "id": "moPMP5uLzYQ",
        "periodType": "Quarterly"
      },
    ▼ {
        "name": "Family Planning Narrative(National) - Rev. 2018",
        "id": "HaYSvYi1Fub",
        "periodType": "Quarterly"
      },
    ▼ {
        "name": "Family Planning Target (Sub-County) - Rev. 2018",
        "id": "WvsGpomWjBb",
        "periodType": "FinancialOct"
      },
    ▼ {
        "name": "Maternal and Child Health Narrative (National) -Rev. 2018",
        "id": "KZn3orNX9qE",
        "periodType": "Quarterly"
      },
```

Fig. JSON Output - Datasets (id,name,periodType)

5. How to get JPHES dataset - Data Set Elements and their disaggregations?

This API endpoint provide the data elements and their disaggregations of a specified JPHES dataset.

URL:
https://jphesportal.uonbi.ac.ke/api/dataSets/moPMP5uLzYQ.json?fields=id,name,dataSetElements[dataElement[id,name,valueType,categoryCombo[categoryOptionCombos[id,name]]]]

Attributes:
Dataset ID: This is based on the specific dataset selected. Use the Dataset list generated. See - [4. How to get JPHES datasets?]

Output:
1. Dataset ID
2. Dataset Name

3. DataSetElements - List of data elements(name, id) and their respective disaggregations (categoryOptionCombos(name, id))

NB: default **categoryoptioncombo** means the dataelement has no disaggregation.

Sample Output:

```json
{
    "name": "County Performance - Rev. 2018",
    "dataSetElements": [
        {
            "dataElement": {
                "name": "MCH_Performance-HL.CUST MCH 6.0 Number of USG-supported facilities tha
                "id": "U2vpDK50r8a",
                "valueType": "INTEGER_ZERO_OR_POSITIVE",
                "categoryCombo": {
                    "categoryOptionCombos": [
                        {
                            "name": "BeMONC",
                            "id": "I0q6bcGoQjP"
                        },
                        {
                            "name": "CeMONC",
                            "id": "rcYc8tKldbt"
                        }
                    ]
                }
            }
        },
        {
            "dataElement": {
                "name": "Malaria_Performance-Number of rapid diagnostic tests (RDTs) purchased
                "id": "nO2QtlaQgGt",
                "valueType": "INTEGER_ZERO_OR_POSITIVE",
                "categoryCombo": {
                    "categoryOptionCombos": [
                        {
                            "name": "default",
                            "id": "HllvX50cXC0"
                        }
                    ]
                }
            }
        },
        {
            "dataElement": {
                "name": "Malaria Performance-Number of houses sprayed with IRS with USG funds",
```

Fig. Data Set Elements (DataElement(name, id, valueType, CategoryOptionCombos/Disaggregations))

6. Value?

This is the value being reported for the specific data element. Note the value type of the data element. For instance **LongText** for Narrative and **Number or Integer** for Performance and Target data elements.

7. Reporting User

This is the JPHES username of the user reporting the data.

B : Data Import Template

1. JPHES CSV format for Import

Column	Required	Description
Data element	Yes	Refers to Data Element ID
Period	Yes	In ISO format, Refer to [*3. How to get the Reporting Period Format?]*
Org Unit	Yes	Refers to organisation Unit ID
Category option combo/Disaggregations	Yes	Refers to categoryOptionCombo ID for the Disaggregration - Refer to *5. How to get JPHES dataset - Data Set Elements and their disaggregations?*
Attribute option combo/Mechanism Unit	Yes	Refers to the Mechanism Unit ID - Refer to *2.How to get reporting mechanism units?*
Value	Yes	Data value
Stored by	No	Refers to username of user who entered the value

Sample CSV file

```
"dataelement","period","orgunit","categoryoptioncombo","attroptioncombo","value","storedby","timestamp"
"DUSpd8Jq3M7","201202","gP6hn503KUX","Prlt0C1RF0s",,"7","bombali","2010-04-17"
"DUSpd8Jq3M7","201202","gP6hn503KUX","V6L425pT3A0",,"10","bombali","2010-04-17"
"DUSpd8Jq3M7","201202","OjTS752GbZE","V6L425pT3A0",,"9","bombali","2010-04-06"
```