NigeriaMRS MIGRATION UTILITY USER GUIDE

User Guide

Steps for migrating from Legacy EMR to NMRS

Step 1: Check the total number of patients to be migrated from the host EMR

Step 2: Check the total number of patients already existing in the NMRS

Use the following steps to check the total number of patients in the NMRS.

- Step 2.1: Login to NMRS
- Step 2.2: On the NMRS Home page click **Data Migration Validation** as depicted in Fig 1

- Step 2.3: On the Migration Summary Page check the migration details and note the total number patients in the NMRS. See Fig 2 below.

The steps above are necessary to determine the number of patients that were successfully migrated from the EMR to the NMRS.
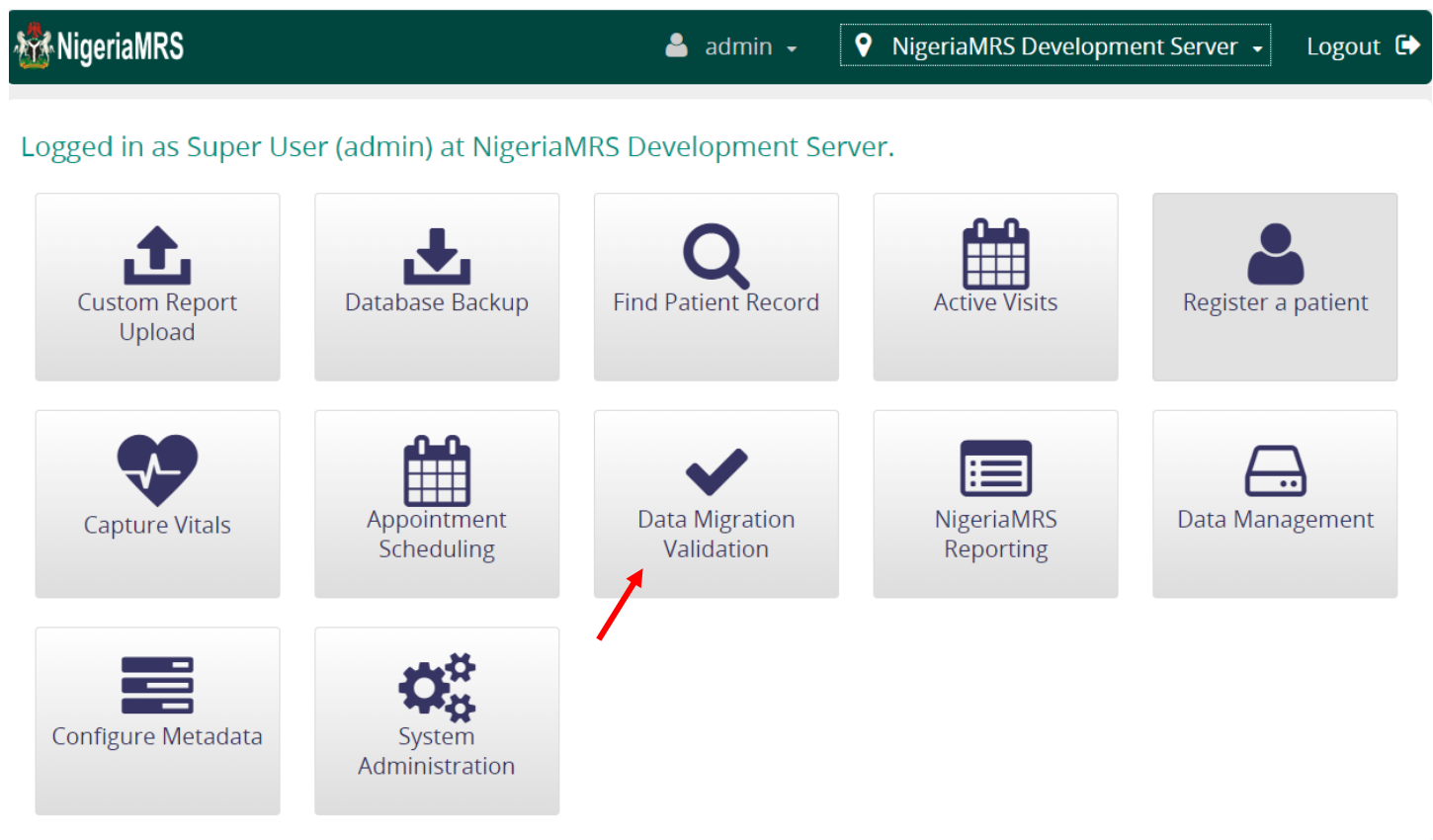

Fig 1: *Data Migration Validation*

Fig 2: Migration Summary

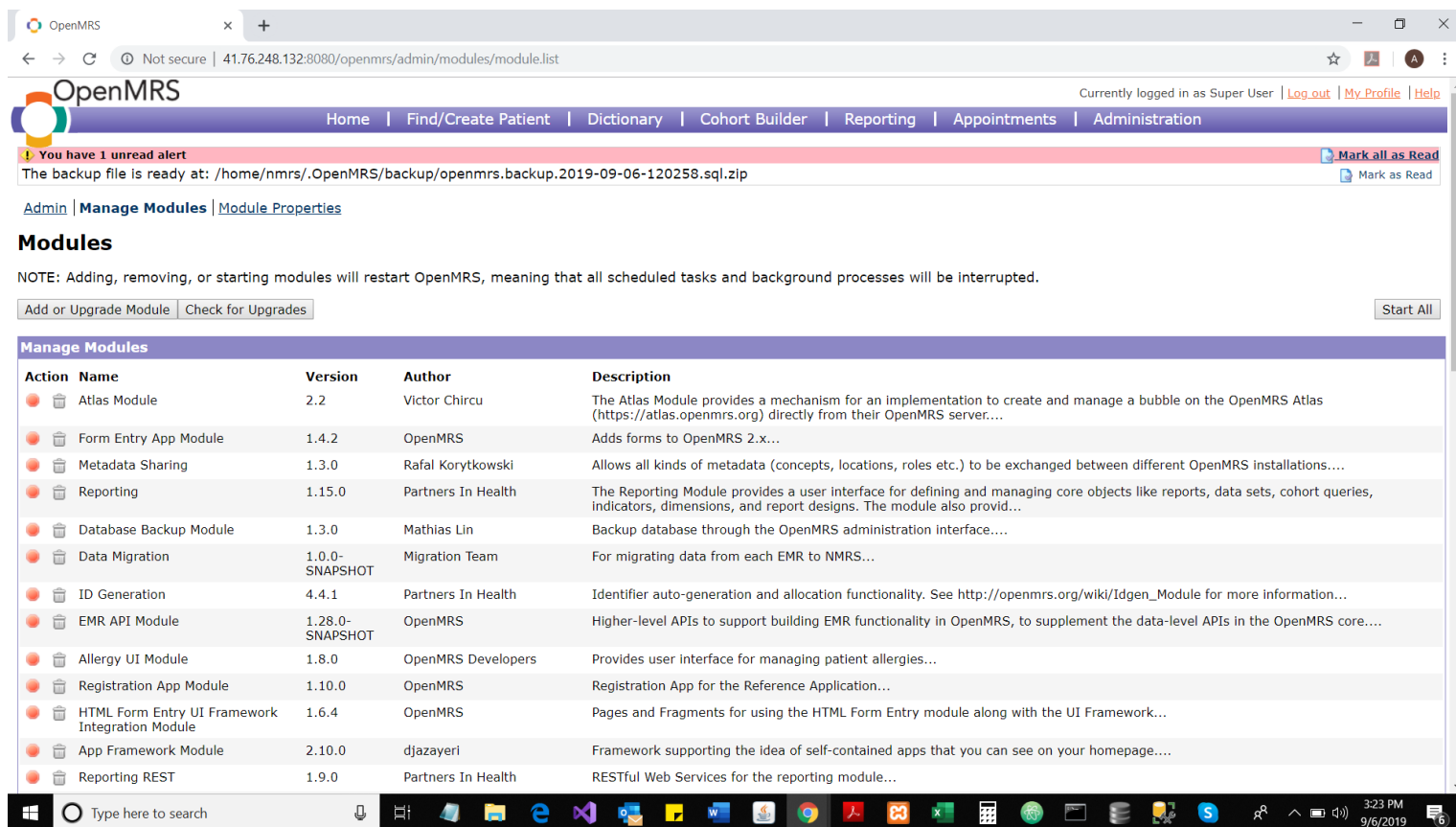**Step 3**: Generate a JSON payload for each patient from the EMR as shown in the *JsonSample* below.

Model	Example value (**JsonSample**)

{
    "surname": "string",
    "givenName": "string",
    "middleName": "string",
    "birthDate": "date-string(dd/MM/yyyy)",
    "gender": "string(M or F)",
    "address": {
        "country": "string",
        "address3": "string",
        "address2": "string",
        "address1": "string",
        "latitude": "string",
        "postalCode": "string",
        "stateProvince": "string",
        "cityVillage": "string",
        "longitude": "string"
    },
    "facility": {
        "lga": "string",
        "facilityName": "string",
        "state": "string"
    },
    "encounters": [{
        "encounterTypeId": "int",
        "formTypeId": "int",
        "encounterDate": "date-string(dd/MM/yyyy)",
        "encounterLocationId": "int",
        "provider": {
            "surname": "string",
            "givenName": "string",
            "middleName": "string"
        },
"obs": [{
    "valueTypeId": "string(value_coded, value_numeric, value_boolean, value_text etc)",
            "obsChildren": [],
            "conceptId": "int",
            "parent": "boolean",
            "value": "string"
        },
        {
            "valueTypeId": "string(value_coded, value_numeric, value_boolean, value_text etc)",
            "obsChildren": [],
            "conceptId": "int",
            "parent": "boolean",
            "value": "string"
        },
        {
            "conceptId": "int",
	{
	    "surname": "Musa",
	    "givenName": "Lawal",
	    "middleName": "Aliyu",
	    "birthDate": "27/08/1997",
	    "gender": "M",
	    "address": {
	        "country": "Nigeria",
	        "address3": "",
	        "address2": "",
	        "address1": "No. 4, Ahmadu Street",
	        "latitude": "9.047",
	        "postalCode": "800272",
	        "stateProvince": "Kaduna",
	        "cityVillage": "Birnin Mai Burji",
	        "longitude": "11.065"
	    },
	    "facility": {
	        "lga": "Lere",
	        "facilityName": "Lere Hospital",
	        "state": "Kaduna"
	    },
	    "encounters": [{
	        "encounterTypeId": 13,
	        "formTypeId": "int",
	        "encounterDate": "03/09/2019",
	        "encounterLocationId": "4",
	        "provider": {
	            "surname": "Haliru",
	            "givenName": "Ahmed",
	            "middleName": "Bello"
	        },
	    "obs": [{
	        "valueTypeId": "value_coded",
	        "obsChildren": [],
	        "conceptId": 165945,
	        "parent": "false",
	        "value": "160530"
	        },
	        {
	        "valueTypeId":value_coded",
	        "obsChildren": [],
	        "conceptId": "165945",
	        "parent": "false",
	        "value": "160530"
	        },
	        {
	        "conceptId": 160530,
	        "parent": "false",
	        "value": "165709",
	        "valueTypeId":"value_coded",
	
	        "obsChildren": [{

```
                                    "parent":
"boolean",
                                    "value": "string",
                                    "valueTypeId":
"string(value_coded,  value_numeric,  value_boolean,
value_text etc)",
                                    "obsChildren": [{

        "valueTypeId":              "string(value_coded,
value_numeric, value_boolean, value_text etc)",

        "conceptId": "int",

        "value": "string"
                                            },
                                            {

        "valueTypeId":              "string(value_coded,
value_numeric, value_boolean, value_text etc)",

        "conceptId": "int",

        "value": "string"
                                            }
                                    ]
                            }
                    ]
            }],
            "identifiers": [{
                    "identifier": "string",
                    "locationId": "string",
                    "identifierType": "string",
                    "preferred": "boolean"
            }]
}
```

```
                    "valueTypeId": " value_coded",

        "conceptId": 160530,


        "value": "160530"
                                            },
                                            {

        "valueTypeId": "value_coded",

        "conceptId": 165720,
        "value": "160530"
                                            }
                                    ]
                            }
                    ]
            }],


"identifiers": [{
                    "identifier": "DEMO-17-2090",
                    "locationId": "1",
                    "identifierType": "4",
                    "preferred": "true"
            }]
}
```

Step 4: Ensure that NMRS is running and the data migration module installed

Use the following steps to check if data migration module is installed.

- Step 4.1: On the NMRS Home page click System Administration
- Step 4.2: On the System Administration page click Advance System Administration.
- Step 4.3: On the Advance System Administration Page Under Modules select Manage Modules.
- Step 4.4: On the Manage Module table find **Data Migration** from the list, if this is available it means data migration module is installed. See Fig 3 below.

Fig 3: Modules Directory

Step 5: Send the generated json payload from the EMR to SERVER_NAME/OPENMRS_INTSANCE/ws/rest/v1/migration API

Step 6: To check the migrated data repeat **Step 2** above, and check if the total number of patients migrated corresponds with the total number of patients from the host EMR. This can be determined by finding the difference between the old total number of patients from step 2 and the new total number of patients.