

Kickoff meeting openMIS Tender 3

4 February 2021



Reminder (included in the proposal)

1. The tender's stated goal is "An Open Imis version free of legacy .NET code". In our suggested scoping we will make this a priority;
2. The limited budget means we will not be able to migrate the full scope of the .NET version of the software "as is". We will not be able to answer all the needs expressed by the instance in Nepal either;
3. We will cover all 3 packages but be specific on what parts of the packages we can deliver and which we consider out of scope;
4. For each iteration of WP2, we will focus on the core functionalities (e.g. standard packages for admin or reports). More specific needs will be considered as out of scope and will have to be supported by custom modules development (made possible by the new architecture);
5. Adding the FHIR API is challenging within the 240 days limit. We propose to provide a GraphQL API, on top of which a FHIR API can be built. We suggest this be covered in a subsequent tender or by other interested stakeholders.

WP 1 - Architecture Design & Migration Strategy

Based on our current knowledge of the architecture, data models and business processes, we estimate this will be sufficient to detail:

- the exact scope for all remaining modules that remain to be migrated;
- our strategy for the setup of an API that will provide an efficient environment for the subsequent development of a FHIR API; and
- our strategy for the migration to a PostgreSQL database and the exact scope of our support to the migration of legacy databases.

10 days*

**Indicative*

WP 2 – Migration of the Codebase

1. Migrate the remaining functionalities of the legacy code base into modules under the new architecture

Our priority is to deliver a fully functional .NET-free openMIS software package within the timeline defined in the ToRs. In order to do so, we will

- **Restrict the migration to the legacy code base**, without taking into account local hacks;
- **Migrate all remaining modules with a focus on key functionalities** - leaving more specific requirements to custom modules development;
- **Wherever existing open-source solutions can be used this will be preferred** to developing openMIS-specific solutions.

195 days*

User Management - Users

User rights/roles/profiles are currently complex - we will provide a classic and widely approved RBAC (Role-based access control) system

Select Criteria

Role Details

Last Name	<input type="text"/>	Given names	<input type="text"/>	Region	--Select Region--	<input type="checkbox"/> Historical
User Name	<input type="text"/>	Roles	-- Select Role --	District	<input type="text"/>	
Phone	<input type="text"/>	HF	--- Select HF Code ---	Language	-- Select Language --	
				Email	<input type="text"/>	<input type="button" value="Search"/>

31 Users Found

USER NAME	LAST NAME	GIVEN NAMES	PHONE	VALID FROM	VALID TO
Admin	Admin	Admin		03/02/2021	
Admin_Fr	Admin_Fr	Admin_Fr		07/03/2019	
E00001	Roberts	Jeb		16/08/2019	
E00002	Jack	Raga		16/08/2019	
E00003	Jono	Jombo		16/08/2019	
E00004	Zombie	Romby		16/08/2019	
E00005	sri	sid		16/08/2019	
E00006	Yabber	Uck		16/08/2019	
E00007	Johnson	James		16/08/2019	
E00008	Jones	Aby		16/08/2019	
E00009	Labil	Bulbao		16/08/2019	
E00010	Kachalo	Alo		16/08/2019	
E00011	Jones	Jack		16/08/2019	
E00012	Jony	Tanu		16/08/2019	
E00013	Lambda	Bilo		16/08/2019	

1 | 2 | 3

User Management - Users profiles

Select Criteria

Role Details

Role name

System

Blocked

Historical

12 Roles Found

ROLE NAME	SYSTEM	BLOCKED	VALID FROM	VALID TO
Enrolment Officer	True	False	22/01/2021	
Manager	True	False	22/01/2021	
Accountant	True	False	22/01/2021	
Clerk	True	False	22/01/2021	
Medical Officer	True	False	22/01/2021	
Scheme Administrator	True	False	22/01/2021	
IMIS Administrator	True	False	22/01/2021	
Receptionist	True	False	22/01/2021	
Claim Administrator	True	False	22/01/2021	
Claim Contributor	True	False	22/01/2021	
HF Administrator	True	False	22/01/2021	
Offline Administrator	True	False	22/01/2021	

User Management - Enrollment officers

Select Criteria

Enrolment Officers Details

Last Name <input type="text"/>	Given names <input type="text"/>	Region <input type="text" value="--Select Region--"/>	
Code <input type="text"/>	Birth Date From <input type="text"/> <input type="button" value="▲"/>	District <input type="text"/>	<input type="checkbox"/> Historical
Email <input type="text"/>	Birth Date To <input type="text"/> <input type="button" value="▲"/>	Phone <input type="text"/>	<input type="button" value="Search"/>

14 Enrolment Officers Found

CODE	LAST NAME	GIVEN NAMES	BIRTH DATE	PHONE	REGION	DISTRICT	HAS LOGIN	VALID FROM	VALID TO
E00001	Roberts	Jeb	15/01/1980		Ultha	Jambero	True	16/08/2019	
E00002	Jack	Raga	25/10/1979		Ultha	Jambero	True	16/08/2019	
E00003	Jono	Jombo	01/06/1969		Ultha	Jambero	True	16/08/2019	
E00004	Zombie	Romby	14/09/1983		Ultha	Jambero	True	16/08/2019	
E00005	sri	sid	02/05/1978		Ultha	Rapta	True	16/08/2019	
E00006	Yabber	Uck	30/08/1974		Ultha	Rapta	True	16/08/2019	
E00007	Johnson	James	19/12/1971		Ultha	Rapta	True	16/08/2019	
E00008	Jones	Aby	05/09/1960		Ultha	Rapta	True	16/08/2019	
E00009	Labil	Bulbao	17/07/1990		Ultha	Uptol	True	16/08/2019	
E00010	Kachalo	Alo	18/08/1963		Tahida	Rajo	True	16/08/2019	
E00011	Jones	Jack	12/11/1963		Tahida	Vida	True	16/08/2019	
E00012	Jony	Tanu	30/07/1983		Ultha	Rapta	True	16/08/2019	
E00013	Lambda	Bilo	01/10/1980		Ultha	Jambero	True	16/08/2019	
E00014	Lastung	Jio	22/06/1969		Ultha	Uptol	True	16/08/2019	

User Management - Claim administrators

Select Criteria

Claim Administrator Details

Last Name <input style="width: 90%;" type="text"/>	Given names <input style="width: 90%;" type="text"/>	HF Code <input style="width: 95%;" type="text" value="--- Select HF Code ---"/>
Code <input style="width: 90%;" type="text"/>	Birth Date From <input style="width: 90%;" type="text"/> <input type="button" value="▲"/>	Phone <input style="width: 90%;" type="text"/> <input type="checkbox"/> Historical
Email <input style="width: 90%;" type="text"/>	Birth Date To <input style="width: 90%;" type="text"/> <input type="button" value="▲"/>	<input type="button" value="Search"/>

15 Claim Administrators Found

CODE	LAST NAME	GIVEN NAMES	HF CODE	BIRTH DATE	PHONE	HAS LOGIN	VALID FROM	VALID TO
JHOS0011	Johilk	Kuna	JMHOS001	17/05/1987		True	16/08/2019	
JMDP0011	Rushila	Dani	JMDP001	09/10/1979		True	16/08/2019	
JMHC0011	Lobo	Jami	JMHC001	26/07/1984		True	16/08/2019	
RADS0011	Lathi	Ojha	RADS001	24/08/1980		True	16/08/2019	
RADS0021	Hino	Acti	RADS002	28/08/1993		True	16/08/2019	
RAHC0011	Dias	Zuh	RAHC001	31/10/1990		True	16/08/2019	
RHOS0011	Lawrence	Rijo	RAHOS001	17/06/1999		True	16/08/2019	
RHOS0012	Hunbaros	Rut	ROHOS001	26/05/1986		True	16/08/2019	
ROHC0011	Laidu	Jukl	ROHC001	16/09/1980		True	16/08/2019	
UHOS0011	Kamyuni	Loy	UPHOS001	05/02/1981		True	16/08/2019	
UPDS0011	Laden	Urth	UPDS001	14/07/1974		True	16/08/2019	
UPHC0011	Lidaen	Zut	UPHC001	27/08/1986		True	16/08/2019	
VHOS0011	Man	Roger	VIHOS001	18/10/1990		True	16/08/2019	
VIDS0011	Duikolau	Juolpio	VIDS001	13/11/1977		True	16/08/2019	
VIHC0011	Louios	Ioulo	VIHC001	30/08/1990		True	16/08/2019	

User Management - Compatibility

- *Impact on legacy code and Gateway module*
- *Scheduled first as risk-based approach*

Medical services

Select Criteria

Medical Service Details

Code Name Type -- Select Service Type -- v Historical

81 Services Found

CODE	NAME	TYPE	LEVEL	PRICE	VALID FROM	VALID TO
A1	General Consultation	Preventive	Simple Service	400.00	01/01/2017	
G1	DEN Intermaxillary Fixation	Curative	Hospital case	42,000.00	01/01/2017	
G100	SUR Burst Abdomen	Curative	Hospital case	42,000.00	01/01/2017	
G2	DEN Cleft Lip & Palate Repair	Curative	Hospital case	42,000.00	01/01/2017	
G34	OBG Caesarean Section Delivery	Curative	Hospital case	42,000.00	01/01/2017	
G60	SUR Gastrostomy	Curative	Day of stay	42,000.00	01/01/2017	
I1	BLOOD SUGAR- RANDOM OR FASTING	Preventive	Simple Service	1,300.00	01/01/2017	
I113	BLOOD SUGAR-RANDOM OR FASTING	Preventive	Simple Service	1,250.00	01/01/2017	
I117	BLOOD SLIDE FOR MALARIAL PARASITES (BS FOR MPS)	Curative	Simple Service	650.00	01/01/2017	
I125	URINE ANALYSIS (ROUTINE)	Curative	Simple Service	650.00	01/01/2017	
I127	URINE FOR PREGNANCY TEST (UPT)	Preventive	Simple Service	950.00	01/01/2017	
I13	SERUM ELECTROLYTES	Preventive	Simple Service	6,450.00	01/01/2017	
I21	BLOOD GROUPING - A, B & O ANTIGENS	Curative	Simple Service	1,900.00	01/01/2017	
I24	SICKLING TEST	Curative	Simple Service	950.00	01/01/2017	
I26	BLOOD SLIDE FOR MALARIAL PARASITES (BS FOR MPS)	Curative	Simple Service	800.00	01/01/2017	

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Medical items

Select Criteria

Medical Item Details

Code Name Type

Package Historical

257 Items Found

CODE	NAME	TYPE	PACKAGE	PRICE	VALID FROM	VALID TO
0001	ACETYLSALICYLIC ACID (ASPIRIN) TABS 300MG	Drug	1000 TABLETS	10.00	01/01/2017	
0002	ADRENALINE 1ML INJ 1MG/ML	Drug	10 VIALS	1,000.00	01/01/2017	
0003	AIRWAY GUEDEL RUBBER CHILD SIZE 67 MM	Drug	10 PIECES	3,620.00	01/01/2017	
0004	AIRWAY GUEDEL RUBBER INFANT SIZE 54 MM	Drug	10 PIECES	4,590.00	01/01/2017	
0005	AIRWAY GUEDEL RUBBER SMALL ADULT SIZE 82 MM	Drug	10 PIECES	4,590.00	01/01/2017	
0006	ALBENDAZOLE TABS 200 MG	Drug	100 TABLETS	25.00	01/01/2017	
0007	ALLOPURINOL TABS 100 MG	Drug	100 TABLETS	160.00	01/01/2017	
0008	AMINOPHYLLINE TABS 100 MG	Drug	1000 TABLETS	10.00	01/01/2017	
0009	AMINOPHYLLINE 10ML INJ 25MG/ML	Drug	10 VIALS	290.00	01/01/2017	
0010	AMITRYPTILINE TABS 25 MG	Drug	500 TABLETS	80.00	01/01/2017	
0011	AMOXICILLIN CAPSULESULES 250MG	Drug	1000 CAPSULESULESULES	40.00	01/01/2017	
0012	AMOXICILLIN GRANULES 125MG/5ML 100MLS	Drug	24 BOTTLES	970.00	01/01/2017	
0013	AMOXICILLIN TRIHYDRATE+CLAVULANIC POTASSIUM 500MG+125MG CAPSULES	Drug	15 CAPSULESULESULES	1,110.00	01/01/2017	
0014	AMPICILLIN PDR F INJ 500 MG	Drug	50 VIALS	520.00	01/01/2017	
0015	ANTI-HAEMORRHOIDS SUPPOSITORIES	Drug	12 SUPPOSITORIES	1,760.00	01/01/2017	

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Medical services price list

Select Criteria

Medical Service Details

Code Name Type Historical

81 Services Found

CODE	NAME	TYPE	LEVEL	PRICE	VALID FROM	VALID TO
A1	General Consultation	Preventive	Simple Service	400.00	01/01/2017	
G1	DEN Intermaxillary Fixation	Curative	Hospital case	42,000.00	01/01/2017	
G100	SUR Burst Abdomen	Curative	Hospital case	42,000.00	01/01/2017	
G2	DEN Cleft Lip & Palate Repair	Curative	Hospital case	42,000.00	01/01/2017	
G34	OBG Caesarean Section Delivery	Curative	Hospital case	42,000.00	01/01/2017	
G60	SUR Gastrostomy	Curative	Day of stay	42,000.00	01/01/2017	
I1	BLOOD SUGAR- RANDOM OR FASTING	Preventive	Simple Service	1,300.00	01/01/2017	
I113	BLOOD SUGAR-RANDOM OR FASTING	Preventive	Simple Service	1,250.00	01/01/2017	
I117	BLOOD SLIDE FOR MALARIAL PARASITES (BS FOR MPS)	Curative	Simple Service	650.00	01/01/2017	
I125	URINE ANALYSIS (ROUTINE)	Curative	Simple Service	650.00	01/01/2017	
I127	URINE FOR PREGNANCY TEST (UPT)	Preventive	Simple Service	950.00	01/01/2017	
I13	SERUM ELECTROLYTES	Preventive	Simple Service	6,450.00	01/01/2017	
I21	BLOOD GROUPING - A, B & O ANTIGENS	Curative	Simple Service	1,900.00	01/01/2017	
I24	SICKLING TEST	Curative	Simple Service	950.00	01/01/2017	
I26	BLOOD SLIDE FOR MALARIAL PARASITES (BS FOR MPS)	Curative	Simple Service	800.00	01/01/2017	

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Medical items price list

Select Criteria

Medical Item Details

Code Name Type -- Select Item Type -- ▼

Package Historical

[Search](#)

257 Items Found

CODE	NAME	TYPE	PACKAGE	PRICE	VALID FROM	VALID TO
0001	ACETYLSALICYLIC ACID (ASPIRIN) TABS 300MG	Drug	1000 TABLETS	10.00	01/01/2017	
0002	ADRENALINE 1ML INJ 1MG/ML	Drug	10 VIALS	1,000.00	01/01/2017	
0003	AIRWAY GUEDEL RUBBER CHILD SIZE 67 MM	Drug	10 PIECES	3,620.00	01/01/2017	
0004	AIRWAY GUEDEL RUBBER INFANT SIZE 54 MM	Drug	10 PIECES	4,590.00	01/01/2017	
0005	AIRWAY GUEDEL RUBBER SMALL ADULT SIZE 82 MM	Drug	10 PIECES	4,590.00	01/01/2017	
0006	ALBENDAZOLE TABS 200 MG	Drug	100 TABLETS	25.00	01/01/2017	
0007	ALLOPURINOL TABS 100 MG	Drug	100 TABLETS	160.00	01/01/2017	
0008	AMINOPHYLLINE TABS 100 MG	Drug	1000 TABLETS	10.00	01/01/2017	
0009	AMINOPHYLLINE 10ML INJ 25MG/ML	Drug	10 VIALS	290.00	01/01/2017	
0010	AMITRYPTILINE TABS 25 MG	Drug	500 TABLETS	80.00	01/01/2017	
0011	AMOXICILLIN CAPSULESULES 250MG	Drug	1000 CAPSULESULESULES	40.00	01/01/2017	
0012	AMOXICILLIN GRANULES 125MG/5ML 100MLS	Drug	24 BOTTLES	970.00	01/01/2017	
0013	AMOXICILLIN TRIHYDRATE+CLAVULANIC POTASSIUM 500MG+125MG CAPSULES	Drug	15 CAPSULESULESULES	1,110.00	01/01/2017	
0014	AMPICILLIN PDR F INJ 500 MG	Drug	50 VIALS	520.00	01/01/2017	
0015	ANTI-HAEMORRHOIDS SUPPOSITORIES	Drug	12 SUPPOSITORIES	1,760.00	01/01/2017	

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Last Page

Add

Edit

Delete

Cancel

Product

Select Criteria

Products

Code Name Region

Date From Date To District Historical

4 Products Found

CODE	NAME	REGION	DISTRICT	DATE FROM	DATE TO	MAXIMUM MEMBERS	LUMP SUM (AMOUNT)	CONTRIBUTION ADULT	CONTRIBUTION CHILD	INSURANCE PERIOD (MONTHS)	GRACE PERIOD ENROLMENT (MONTHS)	VALID FROM	VALID TO
BCUL0001	Basic Cover Ultha	Ultha		01/01/2017	31/12/2030	6	10,000.00			12	0	24/01/2019	
BCTA0001	Basic Cover Tahida	Tahida		01/01/2017	31/12/2030	6	10,000.00			12	0	25/03/2018	
FCUL0001	Fixed Cycle Cover Ultha	Ultha		01/01/2017	31/12/2030	9,999	0.00	4,000.00	4,000.00	12	0	01/01/2016	
FCTA0001	Fixed Cycle Cover Tahida	Tahida		01/01/2017	31/12/2030	9,999	0.00	4,000.00	4,000.00	12	0	01/01/2016	

Product

Insurance Product details

Code: FCUL0001
 Name: Fixed Cycle Cover Ultha
 Region: Ultha
 District: -- Select a District --
 Date From: 01/01/2017
 Date To: 31/12/2030
 Conversion: --Select Product--

Lump Sum (Amount): 0.00
 Threshold Members (Nbr): 6
 Maximum Members: 9,999
 Contribution Adult: 4,000.00
 Contribution Child: 4,000.00
 Insurance Period (months): 12
 Administration Period (months): 0
 Max Insured Members: 3
 Grace Period Payment (months): 3
 Grace Period Enrolment (months): 0
 Grace Period Renewal (months):
 Renewal Disc. %:
 Renewal Disc. Period (months):

Check All

Medical Services

CODE NAME	TYPE	LEVEL	PRICE	LIMIT O	LI
<input checked="" type="checkbox"/> A1 General Consultation	Preventive	Simple Service	400.00	C	C
<input checked="" type="checkbox"/> G34 OBG Caesarean Section Delivery	Curative	Hospital case	42000.00	C	C
<input checked="" type="checkbox"/> G60 SLR Gastrostomy	Curative	Day of stay	42000.00	C	C

Check All

Medical Items

CODE NAME	TYPE	PACKAGE
<input checked="" type="checkbox"/> 0001 ACETYLSALICYLIC ACID (ASPIRIN) TABS 300MG	Drug	1000 TABLETS
<input checked="" type="checkbox"/> 0002 ADRENALINE 1ML INJ 1MG/ML	Drug	10 VIALS
<input checked="" type="checkbox"/> 0004 AIRWAY GUJDFI RUBBER INFANT SIZE 54 MM	Drug	10 PIECES

Account Code (Remuneration):
 Registration Lump Sum: 1,000.00
 Registration Fee:
 Recurrence (Months):
 Start Cycle 1: 1 Jun
 Start Cycle 2: 1 Nov
 Ceiling Interpretation: In-Patient

Account Code (Contribution):
 Assembly Lump Sum: 1,000.00
 Assembly Fee:
 Start Cycle 3: Day Month
 Start Cycle 4: Day Month

Grace Period Renewal (months):
 Renewal Disc. %:
 Renewal Disc. Period (months):
 Enrolment Disc. %:
 Enrolment Disc. Period (months):

Ceiling Interpretation: In-Patient

	Deductible	Ceiling	Deductable (Hospital)	Ceiling
Treatment				
Insuree				
Policy		300,000.00		
Extra Member Ceiling				
Maximum Ceiling				

	Consultations	Surgeries	Deliveries	Hospitalizations	Antenatal	Visits
Number						
Ceiling						
Distribution	NONE	Period	Percent	NONE	Period	Percent

max insured members: 3

Grace Period Payment (months): 3

Grace Period Enrolment (months): 0

Grace Period Renewal (months):

Renewal Disc. %:

Renewal Disc. Period (months):

Capitation Payment

Level 1: Dispensary
 Sub Level 1: -- Select SubLevel --
 Share of Contribution: 100
 Weight of Number of Insured Families: 0

Level 2: Health Centre
 Sub Level 2: -- Select SubLevel --
 Weight of Population: 0
 Weight of Number of Visits: 0

Level 3: -- Select Level --
 Sub Level 3: -- Select SubLevel --
 Weight of Number of Families: 0
 Weight of Adjusted Amount: 0

Level 4: -- Select Level --
 Sub Level 4: -- Select SubLevel --
 Weight of Insured Population: 100

Payers & Funding

Implement the administration screens for payers & tools, including a generic payment system.

Tanzania hack will not be migrated, a simple more common payment rule will be proposed as a base, and countries will be able to adapt to their local needs

Select Criteria

Payer Details

Name Region District

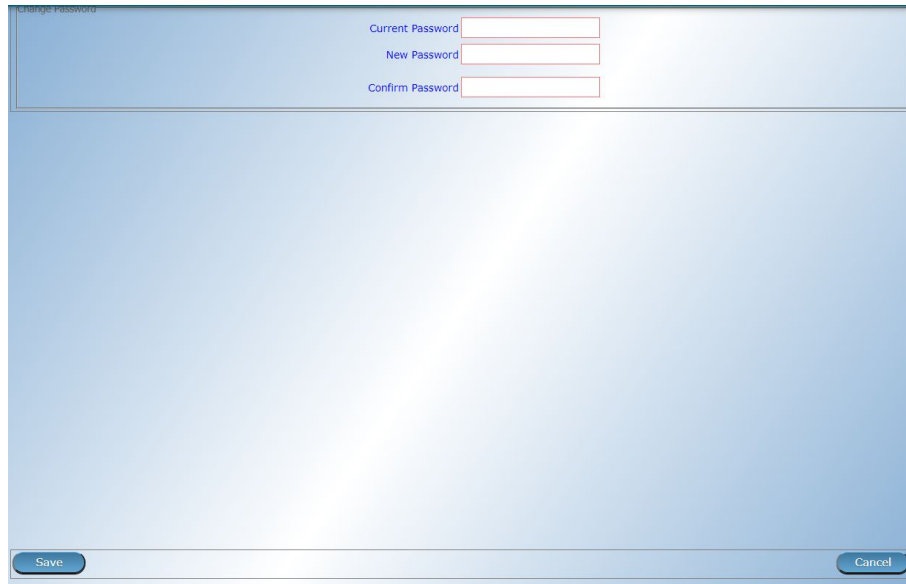
Email Type Phone Historical

1 Payers Found

NAME	TYPE	ADDRESS DETAILS	REGION	DISTRICT	PHONE	VALID FROM	VALID TO
Coffee Farmers Association	Coopérative	HR Manager Coffee Farmers Association Holobo 29 P.B. Box 128 Jambero, Ultha Ultha	Ultha	Rapta	+2552127867576	01/01/2017	

Key user utilities

Allow users to update/reset their passwords, integrate authentication into the “new” architecture (versus being delegated to the legacy system)



The image shows a 'Change Password' dialog box. At the top left, the text 'Change Password' is visible. The dialog contains three input fields: 'Current Password', 'New Password', and 'Confirm Password'. At the bottom left is a 'Save' button and at the bottom right is a 'Cancel' button.

Key system admin utilities

Import/Export of data, generation of reports and various output needed for a good administration of the system. This will be accounted for through a Django admin and a standard reporting package like <https://github.com/burke-software/django-report-builder> to provide the tools to create reports

The screenshot displays a Django admin interface with several utility sections:

- Download Master Data:** Includes a "Download Master Data" button, an "Enrolment Officers Code" input field, and "Download Feedback" and "Download Renewals" buttons.
- Create Phone Extract:** Features a "Region" dropdown menu (set to "--Select Region--"), a "District" dropdown menu, a checked "With Insured" checkbox, an unchecked "In background" checkbox, and a "Create" button.
- Create Offline Extract:** Features a "Region" dropdown menu (set to "--Select Region--"), a "District" dropdown menu, and checkboxes for "With Insured", "In background", and "Full extract". It includes a "Create" button and five "DOWNLOAD" buttons for different data types (e.g., DOWNLOAD PHOTOS [D], DOWNLOAD PHOTOS [F]).
- Upload Claims:** Includes a "Choose File" button, a "No file chosen" message, and an "Upload" button.
- Upload Enrolments:** Includes a "Choose File" button, a "No file chosen" message, and an "Upload" button.
- Upload Feedback:** Includes a "Choose File" button, a "No file chosen" message, and an "Upload" button.

A "Cancel" button is located at the bottom right of the interface.

The screenshot displays the "Reports" section of the Django admin interface. At the top, there are filter dropdowns for "Month", "Quarter", "Year" (set to 2021), "Region", "District", and "Product". Below these filters is a list of report types:

- Primary Operational Indicators-policies
- Primary Operational Indicators-claims
- Derived Operational Indicators
- Contribution Collection
- Product Sales
- Contribution Distribution
- User Activity Report
- Enrolment Performance Indicators
- Status of Registers
- Insureds without Photos
- Payment Category Overview
- Matching Funds
- Claim Overview
- Percentage of Referrals
- Families and Insureds Overview
- Pending Insureds
- Renewals
- Capitation Payment
- Rejected Photos
- Contribution Payment
- Control Number Assignment
- Overview of Commissions
- Claim History Report

At the bottom of the interface, there are "Preview" and "Cancel" buttons.

WP 2 - Migration of the Codebase

Initial order of priority and calendar:

1. User management - 1 June 2021*
2. Medical services/items - 1 July 2021*
3. Medical services/items price lists - 1 August 2021*
4. Product - 1 October 2021*
5. Payers & Funding - 1 November 2021*
6. Key user utilities - 1 December 2021*
7. Key system admin utilities - 1 February 2022*

WP 2 - Migration of the Codebase

2. In close co-operation with the software maintenance project, define change requests for changes that are necessary in the legacy system to allow for a smooth transition

Bluesquare understands that a support to legacy systems is key for a smooth transition to the new software architecture. However, providing in-depth support is very challenging within the 240 days limit. We propose to allocate 5 days to define key change requests in cooperation with the software maintenance project. Once these days are completed contractual extensions will be discussed should additional work be required/requested by the community.

5 days*

WP 2 - Migration of the Codebase

3. Equip the new modules with HL7 FHIR compliant APIs for interoperability with the OpenHIE ecosystem, also allowing the extraction of bulk data.

The development of a HL7 FHIR compliant API is challenging within the 240 days limit. Instead, we propose to set up a GraphQL API that will facilitate the subsequent development of FHIR compliant API.

Included in each module

WP 2 - Migration of the Codebase

4. Communicate gaps in the HL7 FHIR definitions to the FHIR working-groups and propose additions.

As discussed above, we suggest that this be the focus of another tender. However we will provide a clear documentation of the GraphQL API and provide recommendations for subsequent FHIR compliant API development.

0 days

WP 2 - Migration of the Codebase

5. Migrate the database layer from MS SQL Server to PostgreSQL and provide adequate mechanisms for data migrations of legacy data into the new structures.

All usage of MS SQL specific code (SQL dialect, stored procedures, etc) will be removed from the new architecture: the installation package of the new modular openIMIS will include a PostgreSQL database.

We will dedicate a total of 10 days for the support of legacy data migration to the new PostgreSQL database. With this limited number of days, we will provide a strategy for a smooth transition of the legacy data to the new PostgreSQL database but won't be able to provide an in-depth support of this migration. We will leverage the past SwissTPH efforts to set up tools for the data scheme creation and migration of legacy data to the PostgreSQL database.

10 days*

WP 3 – Community Support and Capacity Building

For the community support - much like Work Package 1 - Bluesquare will propose a set pool of days that will allow some flexibility in the approach. Once these days are completed contractual extensions will be discussed should additional work be required/requested by the community.

20 days*

Thank you !



www.bluesquarehub.com

info@bluesquarehub.com