openIMIS — Developers Committee Minutes

Title	Developers Committee Meeting		Date	08/10/2020
Location	**https://meet.jit.si/openIMISDevelopers**		**Time**	**09:00 CEST**
Meeting called by	openIMIS Initiative	**Type of meeting**	Weekly Call	
Facilitator	All	**Note taker**	All	

#	Item		Discussion	Date
			A: Action, C: Confidential, D: Decision, I: Information, W: Warning	
19	AGPL V3 License	W	- Will there be a problem with external security-related code because of the copy-left clause? - https://openimis.atlassian.net/wiki/spaces/OP/pages/40566798/Licenses - German lawyer sent preliminary report, waiting for DEZA reaction	08.10.2020
59	DHIS2 Integration	I	- FHIR API https://github.com/hispindia/openimis-be-api_fhir_py - Wiki page for Extension Descriptions - [https://openimis.atlassian.net/wiki/spaces/OP/pages/961544193/FHIR+Extensions] - STPH starts testing with TZ settings - Use RestAPi for sync locations, proposal to user fhir R4 (location has parent) - Not "catch-up" mechanism to fetch claims older than one day - Patrick worked on import fixes - DHIS2 Annual academy: presentation on 24.09 - problems with org-units, issue with dashboard build up	24.09.2020
73	RFC Formal Sector enrollment	I	- Specification available here. (Cambodia) - Enrollment+Registration (Nepal) - SOSYS Data structure needed to ensure that FS datamodel is compatible (REALLY IMPORTANT) #184 Healthix line - IT director from SSF joined - not advisable to use Django admin for user roles - interface document from SOSYs in review	08.10.2020
92	openHIM	I	- OpenHIM sandbox server: - https://sandbox.openhim.org/ - Login details on home page - calls between Healthix & OpenHIM ongoing - testing started	17.09.2020
105	List of modules	D	- JLN: https://openimis.atlassian.net/wiki/spaces/OP/pages/807600219/Background+-+Joint+Learning+Network+for+UHC - List made by Xavier commented by Patrick - https://openimis.atlassian.net/wiki/spaces/OP/pages/589561955/openIMIS+Plugins - Will be discussed after notice D.1 project start - Discussion at openHIE: disconnect technical and front end level of "modules" - FE=JLN, BE=technical aspect - https://openimis.atlassian.net/wiki/spaces/OP/pages/945422345/JLN+Process+-+OpenIMIS+Mapping - mapping to be reviewed - - action needed for new developments and releases & roadmap	14.05.2020
111	Notice D.1	I	general contract extension to 2021 is accepted, additional three months very likely, BMZ reaction needed	08.10.2020

			• contract process making huge progress 　○ signed: BlueSquare, SwissTPH AI, SwissTPH Formal Sector, Healthix	
115	Integration of Nepal .NET feature into legacy system	A	• Upload tool for attachments to claims (license?) • Code will be uploaded on a daily basis (https://github.com/purusap/web_app_vb) • pull request to develop branch (after the release) • some feature switching needed in legacy for feature not cover by new architecture	23.07.2020
124	Accident Insurance	A	• Accident insurance might be required in the context of new Nepali instance - a case for MIFOS? • Benefit: Salary substitution in case of accident • consultant (University from Germany?) coming in week 2 of Feb for SOPs • Rhein-Sieg University will map out business processes, draft report was sent to SSF for further discussion • https://openimis.atlassian.net/wiki/spaces/OP/pages/1343783009/Accident+insurance • SOP document is final, will be shared after revision • TOR for contract under revision • How the payment to insuree/company will be stored, will it be generic enough for other cash payments ? • https://openimis.atlassian.net/wiki/spaces/OP/pages/1719697409/Employment+Injury+Insurance+-+Social+Security+Fund+Nepal	10.09.2020
127	Publish APK on Gplay	A	• Privacy policy OK • Push blocked by google because a permission require justification (multi-select list) • Fix in next phase	03.09.2020
131	New provider for the server and domain name	D	• Looking at Hetzner (recommendation from other GIZ projects) • https://openimis.atlassian.net/wiki/spaces/OP/pages/1774845970/Server%2BLandscape • currently Nepali provider does a managed server (Windows), MS SQL is done by GIZ • aligning with GIZ restrictent	08.10.2020
135	Modular version Install Nepal	A	• Install and test modular version in Nepal • Data exchange with BAHMNI (PossibleHealth) will also go live, testing ongoing (some requirement from AB are missing) • http://imisbeta.hib.gov.np • support is being defined, set up a project	24.09.2020
136	AI Project	A	• TAG needs to be invoked !!! • openIMIS-AI+-+Input+data+model • openIMIS-AI+-+2.+FHIR+claim+input+data+for+AI • work started on normalisation & data analysis • feedback from Insurance board for analysis needed • Looking on ways to give Rejection Justification 　○ flag Rejected Claims to be reviewed by Medical Officers (~3% of current labeled data) 　○ responsibility is on Medical Officers on the rejected claims • Quality Monitor Module is dependent on Claim-AI Module if new fields are added 　○ if claim are flagged, existing Claim module with small adaptations is sufficient • Regular meetings to be organised (bi-monthly) • full Nepali database (6Mio claims) is available	01.10.2020
137	instant openHIE	I	• Project for setting up an Instant OpenHIE infrastructure is started • Project page: https://wiki.ohie.org/display/resources/Instant+OpenHIE	27.08.2020

			● [Instant OpenHIE Architecture doc](#) ● Amazon Cloud SA credits will be available under the DS account, core HIE components highest priority, openIMIS and other end-user apps later (may be tightly integrated or deployed separately to Instant OpenHIE platform, with a standard way to connect to Instant). ● Demo on 24 Aug on OpenHIE https://wiki.ohie.org/display/resources/OpenHIE+Community+Call (recorded version online) ● openIMIS could use the passthrough mediator (no mediator to add)	

141	Demo instances for the integrations C1	A	● Demo instances of OpenMRS, Bahmni and DHIS2 integrations
			● Check if demo.openimis.org server is supporting this
			● One server for all or one server for each?
			● Linux server for DHIS2 is available
			● Management should be possible within T1
			● create wiki page with overviews
			● Create openimis.org subdomains:
			  ○ dhis2.openimis.org
			  ○ openmrs.openimis.org
			  ○ bahmni.openimis.org (openMRS/Bahmni)
			● [new+openIMIS+installations](#)
			● Can we use instant openHIE
			● Blocked by 131
			● Alternative: Resources on Amazon Cloud available if OpernIMIS is compliant to OpenHIE deployment
				20.08.2020

147	Tanzania implementation	I	● GoTHOMIS (inhouse HMS) and AfyaCare (HMS on OpenMRS) integration to openIMIS requested ● Mission to TZ early May (COVID block) ● some fixes on legacy master need to be done, will affect BlueSquare during iteration on Contributions ● batch run needs adaptations (e.g. capitation calculation) ● integration with accounting system - which would be the workflows and messages/ressources	08.10.2020
148	Mobile technology for openIMIS	I	● [Nils Concept](#) ● [link to wiki page](#) ● links: #127, #193	03.09.2020
157	Developer training	A	● will be merged with the [country customization trainings](#) ● Notice E0 application launched #161 ● https://openimis.atlassian.net/wiki/spaces/OP/pages/1277493249/Developer+starting+kit ● [Backend #2](#) out during Gumzo, #3 will be recorded soon, please send comments and questions on missing topics or incomplete information so that we can include them in #3. ● start looking at the videos as preparation for the virtual workshop (Q&A session ~ 2 hrs maybe in first week of November)	08.10.2020
159	Simplify openIMIS reference package	D	● [Simplify+openIMIS+reference+package](#) ● copy react code into legacy zip file ● next release: check reverse proxy option ● Notice E0 application launched #161	14.05.2020

160	openIMIS developer tools	A	● Modular developer starting kit: initialize BE and FE modules in development mode
			  ○ install tools
			  ○ clone github repos
			  ○ make links to assembly
			● https://github.com/openimis/openimis-dev-tools/tree/develop
			● Allow the installation of Python and git?
			● Notice E0 application launched #161
				14.05.2020

161	Shelf-Readiness (E0)	I	https://wiki.digitalsquare.io/index.php/Shelf_Readiness - open funding under Notice E0 (https://applications.digitalsquare.io) Swiss TPH, Bluesquare, SolDevelo proposal: ● Improve FHIR module ● Improve packaging and installation (#159) ● Improve quality assurance ● Develop technical documentation (#157) ● E0 decisions Postone to November https://wiki.digitalsquare.io/images/7/76/Notice_E0_Mod_-1.pdf	30.07.2020
164	Roadmap	I	● Old roadmap documents need updating e.g. for the new tender processes #167. ● Expect heavy Wiki harvesting & restructuring ● Update will happen after contract sign for FS ● https://openimis.atlassian.net/wiki/spaces/OP/pages/40763442/Product+Roadmap ● need to present to SDC by end of month	03.09.2020
165	Client Registry (E1)	I	openimis-based-client-registry ● proposal in notice E1 (in review stage, notification end for sept) ● Peer review ending on Nov. 2020 (not the decision date) ● https://wiki.digitalsquare.io/images/5/5f/Notice_E1_Mod_-1.pdf ●	09.07.2020
167	New GIZ Tenders	W	● T1: is online, applications are possible ● T3: in the pipeline	24.09.2020
176	Video tutorials (Impl)	I	● Session 1 - openIMIS Legacy Web Application ● Session 2 - openIMIS Legacy Web Application Localization ● Session 1 Q&A session linked in the wiki ● Session 3 might have to be postponed to avail time for maintenance	13.08.2020
177	DB Auditing and versioning	A	● How should DB auditing be done? Changes might come up with the formal sector. ● https://openimis.atlassian.net/wiki/spaces/OP/pages/1233616897/Database+records+versioning+history ● Performance problems seen and hot-fixed in TZ, NP coming up with the same problem - how long will this hold? Would be better after the DB migration (e.g. end of 2021) ● how to manage the historical values? ● Meeting to be planned on 13.08? ● Example to be added to the page (AP Patrick)	27.08.2020
183	Nepal new features	D	● New features are requested by HIB ● Puru will submit the new features on Jira (part already on jira) ● contracting out in Nepal	27.08.2020
184	FS FHIR - SOSYS integration	A	● waiting for feedback from Nepal about the usage of FHIR for FS integration: ● risk factor in the delay waiting for the response/approval ● API document from SOSYS came in and is being revised	08.10.2020
185	Policy module migration - analysis & questions	I	● First draft analysis of Policy module in wiki (with mocks) ● Some questions still open (e.g. how to add a family member in existing policy coverage: via 'renewal' ??) ● look at defaults table: tblIMISDefaults (scripts from db develop branch) ● closing up discussions with implementers	17.09.2020
188	Product redesign for migration		● Before going for the product migration, should we make the payment to Hf (to insuree ?) as separate modules (like RBF, …) that could be added to openIMIS, in addition it will simplify the page in case only one way of payment is activated.	13.08.2020

			● To be discussed if the parameters for validation of claim should also be documented in separate module (sound risky, heavily linked to claim modules) ● call in first week of September	
189	Insurees & Family	I	● Insurees & Families 'write' features (create, move,...) to be deployed 'rough' (i.e. with bugs) today or tomorrow on release.openimis.org ● Objective: test (& fix), document,... by end september ● Note: received test plan from implementers, implementers will be set up… ● Testing by AEHIN students	01.10.2020
190	self registration (general)		● Might come up as a activity from Nepal (inhouse) ● Need request document with business requirements ● open questions: user management for beneficiaries ● SOP in development ● Credential management ? 　○ use a portal outside openimis (no access to openIMIS data) 　○ 2nd factor done through mobile number	01.10.2020
191	Configuratio n		● Use the Django configuration approach 　○ add a entry in the database for the module or for the core if shared by multiple module ● check video :https://www.youtube.com/watch?v=FRtRoJPt1Lw&list=PLWKJ KsJBiT3L2QHj1DwoXsl6CplZI2M2J&index=4 ● How to align config between legacy and modular ? ● Please check comments at https://openimis.atlassian.net/wiki/spaces/OP/pages/136599962 7/Policies+module+scope	01/10/2020
192	FHIR perf		● Need to improve FHIR performance and efficiency (do we need to share 100 times the same urls). ● batch made for DHIS2 & AI - pushing & pulling ● hack django JSON module? ● https://openimis.atlassian.net/browse/OP-251 ● recommendations 　○ Make sure the message are not too big (avoid redundant data) 　○ caching the count of page(should not been done for live data) 　○ make sure the database server speed is adequate 　○ avoid adding too precise filters (like validity up to milliseconds) because django default caching can't be used in those cases	08.10.2020
193	Client self manageme nt Mobile App in Nepal		● Nepal is providing funds to invest in the Mobile App. Call on how to advise them on the further steps - Development almost done (is it possible to use an OI module to connect the app to the OI server?) ● status follow up need because of change of ED	03.09.2020
195	DB performanc e	A	● Family, claim, insuree, policy ● prepare information & organize call next week ● Check location filter, Validity filter ● To be check the way on legacy ● Clean database. ● NP & TZ figures needed ● call after this meeting	08.10.2020
197	Error logging	D	● legacy WebApp: errors logged in Win EventLog ● created shared Log method to allow additional mechanisms to be added ● -> try sending email with Django	01/10/2020

<u>Deep Dive DB Optimization:</u>

- Amount of RAM:

       Puru: Valuation takes times: 50 claims at the time, timeout.

           - rebuild index

           - Avoid locking

- remove year old history:

       auditing can look at 2-3 year claims

       → archaving: having 2 "databases"

- restrict insuree/claim search to district level

       Could work

- limit the number of row return (ex 1000) for insuree and claims

       could work

       count of insuree on the search will be wrong

- query optimisation (having location search once at login and avoid join with uwvLocation)

       save location, products and other filtering on the login

- enable pagination

       see later