![openIMIS logo] **Developers Committee Minutes**

Title	Developers Committee Meeting	Date	**10.03.2022**
Location	**https://meet.jit.si/openIMISDevelopers**	**Time**	**08:00 UCT**
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 - DEZA still proposes Bern clause - http://www.apache.org/licenses/LICENSE-2.0 needed for the HTTP Client mobile app (Point 4 - Redistribution)	27.01.2022
59	DHIS2 Integration	I	- Demo DHIS2: https://dhis2etl.s1.openimis.org - Release DHIS2: - Dataset could be used instead of program https://openimis.atlassian.net/wiki/spaces/OP/pages/1484423230/Report+queries+for+SSRS+dataset - to be checked: Program Dataset Connector (PDAC) - ADX file support to be supported ? - QA ongoing, initial load with TZ data ~ 2 weeks - performance improvements by creating daily batches - we need to re-think strategy	10.03.2022
92	openHIM	I	- OpenHIM sandbox server: https:openhim.s1.openimis.org - propositions from OHIE: Workforce (would need FHIR) - https://openimis.atlassian.net/browse/OP-452 - need mediators from formal sector etc. in progress - mediator for payment layer is added - SSF wants a more detailed OpenHIM demo	10.03.2022
105	List of modules	D	- JLN: https://openimis.atlassian.net/wxiki/spaces/OP/pages/807600219/Background+-+Joint+Learning+Network+for+UHC - https://openimis.atlassian.net/wiki/spaces/OP/pages/589561955/openIMIS+Plugins - Discussion at openHIE: disconnect technical and front end level of "modules" - FE=JLN, BE=technical aspect - mapping to be reviewed - - action needed for new developments and releases & roadmap - support from Tender 2 contract - Mapping openIMIS-JLN started: https://openimis.atlassian.net/wiki/spaces/OP/pages/945422345/JLN+Process+-+OpenIMIS+Mapping - Toumai consultant is reviewing processes	17.02.2022
127	Publish AAB/APK on Gplay	A	- Policies Demo Mobile App on Google Play - Solution to improve the application (e.g. app name is Barcode Scanner on some phones) - TZ policy app will be pushed to Google Play - in testing countrywide - Eric added a GitHub action to build APK and AAB. Installing the APK - Eric: From Aug 1, Google Play will require new apps to be in AAB instead of APK. We can upload the signing key to Play Store and	13.01.2022

				let it manage signing of the AAB, so this would make our life easier.	

135	Modular version Install Nepal	A	● legacy part is productive - FE not applied for all functions
			● 2 domains 1 Modular - 1 legacy
			  ○ 2 domains will be used in parallel
			  ○ Claim reviewers will be the first to use the modular; if it work well other kind of user will move to Modular
			● Performance issue is still blocking (#250)
			● series of online sessions & support ongoing - HIB fully engaged
				10.03.2022

136	AI Project	A	● openIMIS AI-based Claim Adjudication ● improvements with STPH internal funds ● Inconsistencies were identified in data ● updating to use FHIR APIs ● hybrid event on 02.02.22: Building bridges between innovation and impact on AI in healthcare ● data discrepancies for 2020 due to covid? ● claim ID/insurance ID replaced for performance	24.02.2022
137	instant openHIE (E0)	I	● Project page: https://wiki.ohie.org/display/resources/Instant+OpenHIE ● Instant OpenHIE Architecture doc ● Instant openHIE is a solution to launch "docker stacks" of different e-health systems => implemented ● Code delivered, demo to be planned after the 22-04 release ● Should this be re-worked to contain the new docker-version?	03.03.2022
141	Demo instances for the interop use cases	A	● Demo instances of OpenMRS, Bahmni and DHIS2 integrations:https://openimis.atlassian.net/wiki/spaces/OP/pages/3219128428/Sandbox+Landscape ● BAHMNI-Docker under revision -> in T1 ● MojaLoop is installed but not configured, ● MIFOS is installed and configured ● openHIM is installed and configured	24.02.2022
147	Tanzania implementation	I	● National Rollout for e-payment ongoing, UAT ongoing ● Policy Notification module to send SMS for activate, renew, expiry installed in production ● Insuree card with QR codes will be developed soon ● Payment module rolled out nationally ● integration into 2 HMS and one accounting systems ● Insuree self-renewal through USSD ● Bulk payment of policies to be developed	24.02.2022
148	Mobile technology for openIMIS	I	● Nils Concept ● link to wiki page ● links: #127, #193 ● restart discussions? Target: define task for T1 or student - s cope might be rather big ● all: look for resources and options ● Android FHIR-SDK usable ? https://github.com/google/android-fhir ● Google Summer of Code? ● https://pub.dev/packages/fhir	17.02.2022

160	openIMIS developer tools E0	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?
			● Docker for Developers? -> docker override in https://github.com/openimis/openimis-dist_dkr/tree/feature/e0
			● delivered in Dec 2021
				10.03.2022

			● demo postponed	
164	Roadmap	I	● Old roadmap documents need updating e.g. for the new tender processes #167. ● Expect heavy Wiki harvesting & restructuring ● https://openimis.atlassian.net/wiki/spaces/OP/pages/40763442/Product+Roadmap ● FS to be updated ● Link Jira Roadmap or Confluence Roadmaps ?	10.03.2021
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 ● Developer videos subtitled to French ● https://openimis.gitbook.io/installation-and-country-localization/	19.08.2020
183	Nepal new features (modular)	A	● New features are requested by HIB ● Puru will submit the new features on Jira (part already on jira) ● contracting out in Nepal by tomorrow ● Legacy/Modular will depend on the module available ● New mobile app for enquiries under development ● https://github.com/tinkertechnology/ ● is in github repos from Tinkertechnology -> need to push to openIMIS	10.03.2022
188	Extend to other Schemes (Product redesign) "Beyond Health"	A	● https://openimis.atlassian.net/wiki/spaces/OP/pages/1817346053 ● found Jiri report, needs to be uploaded ● Ideas for architecture: https://openimis.atlassian.net/wiki/spaces/OP/pages/3024289830/openIMIS+beyond+health+features+needs ● channel this through Conversion Initiative ● workshop coming up with other SP software communities end of march 24th 13:00 - 15:30	10.03.2022
190	Insuree self registration (general)	I	● contract finished, still need to upload the code ● need to add developers to openIMIS github ● bug-fixing is on-going ● set up deep dive with Tinker Technology to synch with IC discussions ● HIB approved - presentation next Gumzo February ● legal issues need to be resolved before going live ● github needs update	10.03.2022
193	Client self management Mobile App in Nepal	I	● 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?) ● mobile app roll-out on April 8th (HIB birthday) ● code needs to be merged to github	10.03.2022
204	Students	A	● Can we recruit students for a thesis? ● Page to be created with possible thesis topics ● new contact from Mannheim - positive signs from the colleagues in Mannheim => to start working in March	10.03.2022
208	Developer Workshop	D	● What about a Dev Workshop in January? Rather later in person (Nepal) ● Intermediate sessions as needed (Kickoff for new T3 project: 04.01.) ● preferences: Nepal, then Kenya	09.12.2021
223	Testing Scenarios	D	● https://openimis.atlassian.net/wiki/spaces/OP/pages/1343881261/Quality+assurance	10.03.2022

			● https://openimis.atlassian.net/wiki/spaces/OP/pages/1336967179/Quality+assurance+opensource+tools ● instance installed: qa.openIMIS.org ● new overview page: https://openimis.atlassian.net/wiki/spaces/OP/pages/3000664081/Test+cases+overview ● modular installation instructions under review especially by the Niger implementation project ● meeting tomorrow on how to test the french version ● STPH has sent out invitations for Beta test	
230	Security auditing	D	● Decide if we want/need to have a security audit ● target: after April 2022 for FE&BE, October 2022 for Postgres ● plans in Nepal (GIZ/HIB) for security audit ● Security expert to do some penetration testing in November ● Penetration test were done - issues will be addressed ● Communication to implementers started ● legacy issues were fixed	10.03.2022
232	AI workshop	W	● schedule detailed calls on single projects from AI workshop ● kick of call with GIZ NP next year -> #271	03.03.2022

233	FHIR IG (E0)	A	● R4 IG: https://openimis.github.io/openimis_fhir_r4_ig
			   ● profiles are done and code is updated
			   ● updated FHIR R4 module delivered
			● https://wiki.digitalsquare.io/index.php/Global_Goods_Community : Digital Square FHIR webinars
			● Final openIMIS FHIR IG will be delivered end Dec
			● Invoice and Bill Profiles will be included in the FHIR IG on github
			● need to update wiki documentation
			● https://fhir.openimis.org
				17.02.2022

234	Payment Layer	I	● Discussion on payment layer integration started with Mifos ● OpenG2P.org for payment processes ● deep dives for coordination of projects need to be attended by all involved teams! ● energizer calls (15min each) starting Friday until the end of the month ● GovStack use case in preparation #239	24.02.2022
236	Nepal Claim FE integration into main	A	● Nepal rework the claim FE module to improve the layout ● demo to implementers was done ● integrate code into develop branch through feature branches - by the end of the week	03.03.2022
238	Chat-Channel	D	● app for chats available (clients / apps) ● https://discord.gg/khDgTDWUZV ● -> we are using discord ● update wiki pages (communication channels)	24.02.2022

239	GovStack	A	● technical specification documents are ready for review:
			   ○ https://docs.google.com/document/d/18aJLgW4dlB89UMFVXBnrzpHwGLnmQpaoxUGVMxsoGUo/edit
			   ○ https://discourse.govstack.global/t/govstack-documents-and-resources/95
			● Tender for systems integrator is preparation - sub-contracts could be a good chance for openIMIS
			● OpenAPI specs: https://fhir.openimis.org/openIMISCapabilityStatement.openapi.json
			● openIMIS Integration: https://docs.google.com/presentation/d/1IZh5FQIqgmVkk7KU0ui8ETVaFawfsT-DFO8Zql6G-mU/edit#slide=id.p1
			● Demo:
			   ○ video
			   ○ instance
				10.03.2022

243	Item/Service groups	I	• Implementers expressed a few times the desire to add item and service groups. While we're finalizing the module rewrite, now is a good time to check what is possible. Meeting with Saurav (and Jean) tomorrow. • Think about hierarchies • https://openimis.atlassian.net/wiki/spaces/OP/pages/2998730753/Classification+of+Social+Protection+Schemes • Not integrated in the new modules because no real demands and not in the scope/budget	03.03.2022
246	International Developers	A	• How do we make the community compatible to other language groups at all levels? • French channel in discord? • Workshop organised by Digital Square • https://path.zoom.us/meeting/register/tJModO6tqz8iG9DugwdjxWmmwXtnUx5-o0yn/success?user_id=pddwKqRiQpCrAyX4p8kdCA&timezone_id=America%2FNew_York	10.02.2022
249	Random Claim Sampling	I	• HIB has requested support on Claim Random Sampling. • Gone live • results: uncertainty about the process • upload to github done, needs to be merged	03.03.2022
250	Performance test (Modular) on big data set	A	• Test and fix any timeout issues • https://s2.openimis.org/front/home • trip to Nepal will be hybrid soon • preparing test version on NP test server on latest tested version • can it be further anonymized for use as demo data set	24.02.2022
252	Toumai Community		• The hiring process of the regional hub for Africa is ongoing • The hiring of a community expert is done • 15.3. modular approach presented • The study on the Insurance product started	10.03.2022
260	Documentation management platform	D	• docs.openimis.org (ReadTheDocs) • openIMIS Docs • https://openimis.gitbook.io/installation-and-country-localization/ (GitBook) • more in-code documentation needed • need to standardize & improve module documentation (e.g. which repositories are involved?) • topic in co-ordination desk team meeting	16.12.2021
271	AI Workshop Nepal		• after performance issues are solved • to be done in conjunction with the performance workshop	03.03.2022
274	Default module configuration	A	• Add default configuration to DB for each module so implementers know what can be configured. • could be done through migration script	27.01.2022
280	Digital Square Notice F	I	• https://applications.digitalsquare.io/ • Two applications on F2 from Bluesquare accepted for co-creation phase • peer review phase finished	03.03.2022
284	offline mode (web)	I	• current version of extracting data for offline mode for web-app is not working • nobody is using it, improve mobile apps instead • need to communicate to implementers • Ticket open to test the offline version for the Legacy https://openimis.atlassian.net/browse/OP-466 • problem with vouchers - synch via USSD?	17.02.2022
286	Mauritania Implementation	I	• ePayment implementation through Bankily mobile application in discussion	16.12.2021
287	Demonstration of Swiss	I	• Hybrid event with possible live demo of Claim-AI module in Dubai • https://gdhub.org/building-bridges-between-innovation-and-impact-on-ai-in-healthcare/	03.02.2022

	AI-Tools @ Expo Dubai		● postponed to 21.03	
288	Implementer documentation	D	● Should we add specific documentation for the implementers (not end user or installation) ? ● Explain the module configuration in details ● through tender 2?	24.02.2022
289	Big merge	I	● Lots of big merges done with product, payers, funding, new login screen and more. ● Some integration/deployment issues. ● done	03.03.2022
290	Schedule-tasks engine	D	● Add a schedule tasks engine in core module to manage schedule tasks from other modules ● bypass assembly settings.json configuration ● ease configuration, (de)activation, etc.	13.01.2022
291	Server time to UTC	D	● datatypes with timezones sufficient?	27.01.2022
292	ClaimAdmin model moved to Core module	A	User requires claim.ClaimAdmin => move it to core?	10.02.2022
293	Authentication	I	● Since Blsq modified the authentication so the frontend adds the JWT token to every call, the PDF download and file attachments stopped working as they're links opening directly into the browser => no authorization header passed. ● Blsq therefore changed the authentication system to use cookies. This led to a rewrite of the jwt_authentication that checked the various "bearer/basic/remote_user" auth. It is much simpler now and should work with basic auth, remote_user and bearer. ● PR are out, would love feedback on each team's use cases. ● cookies? https://gdpr.eu/cookies/ > See "Strictly necessary cookies" (these are only session/language management cookies, no tracking) GDPR states that we don't need consent but should inform about the cookies. ● We could provide that info in general terms & conditions or provide an optional way to show a banner on first visit (that would require another cookie).	10.03.2022

294	Camera access from webapp	A	● Registration with pictures through the WebApp?
			● Using the browser access to camera
			  ○ https://www.digitalocean.com/community/tutorials/front-and-rear-camera-access-with-javascripts-getusermedia
			  ○ https://codepen.io/chrisbeast/pen/ebYwpX
			● No real advantage in offline mode (can use mob. app) but in branch offices with registration at the counter
			● fixed
				03.03.2022

295	OpenMRS/BAHMNI FHIR		● openMRS/BAHMNI FHIR needs to be updated to FHIR4 - workload and funds (Notice F2?)? (FHIR3 still works, though) ● estimation? ● synchronise with Possible Health implementation	17.02.2022
296	Cameroon VS Implementation	I	● bundle/package of services and items to be developed ● UCPC MoH	10.02.2022
297	Cont. Int.		Most of CI issues fixed, need for beta testing phase	03.03.2022
298	Rel 2022-04	A	● https://openimis.atlassian.net/wiki/spaces/OP/pages/3211395073/Release+2022-04 ● testing of the full modular openIMIS in preparation by Implementers	03.03.2022
299	Partner Pages	I	https://openimis.atlassian.net/wiki/spaces/OP/pages/831357029/Repository+of+openIMIS+Partners	03.03.2022

			● list of potential implementation experts planned	
300	Capitation function	A	● how to add calculation rule for capitation ● also needs entry screen for attributes ● standard feature or customization? ● current TZ version is very exotic	03.03.2022
301	Split database user	A	Consider splitting database user of the webapp and the more advanced user. Right now, the documentation says to create imisuser with db_creator role. The user also has the right to create backups and restore them. The legacy app allows admins to give a path like c:\openimis\foo and dump a file there. Or load the database from such a path. This is a big risk for security. Even if it is restricted to Admins, combined with another flaw, it might have very bad effects	03.03.2022
302	Locust.io	I	For Performance testing, Blsq made a Locust script that can hammer the (GraphQL) API. It supports both legacy and modular logins. (not that easy) The script will probably be in the openimis-be_py repo but it might become a full repo because it will evolve independently from releases	10.03.2022
303				