

openimis Developers Committee Minutes

Title	Developers Committee Meeting	Date	22.06.2023			
Location	https://meet.jit.si/openIMISDeve	Time	08:00 UTC			
Meeting called by	openIMIS Initiative	Weekly Call				
Facilitator	All	Note taker	All			
Distribution list	openimis-developers-committee@googlegroups.com; openimis-implementers-committee@googlegroups.com;					
Chat channel	https://discord.gg/khDgTDWUZV,					

#	Item		Discussion	Date
			A: Action, C: Confidential, D: Decision, I: Information, W: Warning	
19	AGPL V3 License	W	 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) new contract with the lawyer is active - DEZA is signalling willingness to adapt new comment from the lawyer 	22.06.2023
59	DHIS2 Integration	1	 Demo DHIS2: https://dhis2etl.s1.openimis.org (can be linked to Demo-data) 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) review alternate BI architecture #341 HISP India demo is down - replace with openIMIS sandbox server - data from artificially generated dataset #260 Bluesquares data scripts are ready, will start data upload into HISP India dashboard next week example of cubes: https://github.com/openimis/openimis-be-dhis2 etl py/blob/de velop/dhis2 etl/services/adx/cubes.py 	15.06.2023
105	List of modules	D	 JLN: https://openimis.atlassian.net/wxiki/spaces/OP/pages/8076002 19/Background+-+Joint+Learning+Network+for+UHC https://openimis.atlassian.net/wiki/spaces/OP/pages/58956195 5/openIMIS+Plugins Mapping openIMIS-JLN started: https://openimis.atlassian.net/wiki/spaces/OP/pages/94542234 5/JLN+Process+-+OpenIMIS+Mapping started restructuring of documentation #306 update of Tomai session needed: https://openimis.atlassian.net/wiki/spaces/OP/pages/32802406 41/Webinar+openIMIS+pour+I+Assurance+maladie+L+approche+modulaire+-+15.03.2022 new graphical overview: https://openimis.atlassian.net/wiki/spaces/OP/pages/58956195 5/openIMIS+Modules Modular Architecture - https://openimis.atlassian.net/wiki/spaces/OP/pages/33761525 82/Modular+Architecture+Draft finished, next steps: document modules 	25.05.2023

127	Publish AAB/APK on Gplay		 Policies Demo Mobile App on Google Play TZ policy app will be pushed to Google Play - in testing countrywide From Aug 1 2021, Google Play will require new apps to be in AAB instead of APK. We can upload the signing key to Play Store and let it manage signing of the AAB, so this would make our life easier. point App to server with MS SQL issue on Android 13? 	09.02.2023
135	Migration Support Nepal	A	 Migration needs some adaptations first https://openimis.atlassian.net/wiki/spaces/OP/pages/34605629 45/Customize+and+setup+the+modular+version+of+openIMIS +for+Health+Insurance+Board+requirements+in+Nepal project page: https://openimis.atlassian.net/wiki/spaces/OP/pages/35331440 65/Project+Modular+Migration+Nepal 	15.06.2023
136	Al Project	A	 openIMIS Al-based Claim Adjudication presentation in an internal ISSA webinar (170 participants) working on random test data items & services work well Nepal student interested in thesis 	15.06.2023
147	Tanzania implementation	W	 integration into a accounting systems (muse) ongoing Roll-out of modular version starting with pilot => catalytic funds could be used for migration? new insurance act expected next year which will bring high volumes of new beneficiaries Formal Sector modules to be implemented for small farms -> reach out to DCI Kubernete deployment will be checked First test with full modular installation started Bulk family payment in pipeline => requires GePG integration migration Migration plan set up for TZ from February until end of June hand-over workshops to TZ developers started 	15.06.2023
164	Roadmap	I	 Old roadmap documents need updating e.g. for the new tender processes #167. https://openimis.atlassian.net/wiki/spaces/OP/pages/40763442/Product+Roadmap start writing up items for draft 	25.05.2023
176	Video tutorials	1	 Session 1 - openIMIS Legacy Web Application Session 2 - openIMIS Legacy Web Application Localization New release: Docker installation tutorial - needs to be added to playlist (needs to be public in YT) Update playlists Translations to French language coming up: module configuration older installation video from NP new implementation video https://youtu.be/q12uO3OixOw 	16.03.2023
188	Extend to other Schemes (Product redesign) "Beyond Health"	Α	 Develop a common roadmap https://openimis.atlassian.net/wiki/spaces/OP/pages/18173460 53 found Jiri report, needs to be uploaded Ideas for architecture: https://openimis.atlassian.net/wiki/spaces/OP/pages/3024 289830/openIMIS+beyond+health+features+needs https://openimis.atlassian.net/wiki/spaces/OP/pages/3463 577606/Product+refactoring channel this through Conversion Initiative (DCI) make this a target for next project phase 	26.01.2023

			discussed in Deep Dive & Bhela	
190	Insuree self registration (general)	1 .	 new integration to foresee with payment gateway, use case for the payment modules? https://dev.s1.openimis.org/api/self_registration/temp_insuree_reg/? Can Nepal devs support on OTP based via email? would be good to have this for 23-04 Release will be released without testing (no testcases) new developments in planning 	25.05.2023
193	Client self management Mobile App in Nepal	,	 New mobile app for enquiries under development https://github.com/tinkertechnology/ Refactor needed to adapt the code to the Main database model (it use Nepal specific fields) migration to FHIR https://github.com/openimis/mobile-self_registration_flutter not in 2023-04 	15.06.2023
204	Students		 Can we recruit students for a thesis? Page to be created with possible thesis topics contacts to Uni Frankfurt established - presentation in February MARS Lab had to be cancelled due to health issues - will be redone next semester Presentation held in Frankfurt University: https://openimis.atlassian.net/wiki/spaces/OP/pages/35105341 Al student from NP - introduction was done yesterday 	22.06.2023
208	Developer Workshop		 What about a Dev Workshop in January? Rather later in person (Nepal) Intermediate sessions as needed (Kickoff for new T3 project: 04.01.) Preferences: Thailand, Kenya issue was raised during community meeting in CM 	15.06.2023
223	Testing Scenarios		 https://openimis.atlassian.net/wiki/spaces/OP/pages/30006640 81/Test+cases+overview SolDevelo plugin for test case management: https://www.soldevelo.com/products/jiratestmanagement/ test cases needed for Nepal contributions (portal etc) Installation tests to be listed here: https://openimis.atlassian.net/wiki/spaces/OP/pages/30010573 22/4.+Installation+test Example for installation test: https://openimis.atlassian.net/wiki/spaces/OP/pages/34701 96759/Test+Install+openIMIS+on+Windows+10+Windows+ 11+with+Docker+Desktop trying out jira test-features For important business that need to be covered by test cases, please contact Hiren/SwissTPH KeHIA was onboarded into testing procedures Testing is launched and underway 	13.04.2023
230	Security auditing	D	 Digital Square received the security review and recommendation new project: https://openimis.atlassian.net/wiki/spaces/OP/pages/33650769 93/Project+Security+2022 only one high risk in release found - fixed need wiki page on security activities Digital Square hired a security expert - call on 2023-03-09 12:00 CET 	15.06.2023

		•	 call revelade that openIMIS is doing 99% of the security testing expected, more than any other Global Good; need better public documentation Django 3.2 security advisory. It's "only" a denial of service possibility in file uploads. Let's make sure to update for the release. Do we need CSRF token on graphql ? should they me bound to some mutation ? security advisors from PATH advise to NOT publish security guidelines Need to summarise security activities in the wiki 	
239	GovStack	A •	openIMIS Integration: https://docs.google.com/presentation/d/1IZh5FQIqgmVkk7KU Oui8ETVaFawfsT-DFO8ZqI6G-mU/edit#slide=id.p1 Demo: video instance GovStack moving all documentation to confluence: https://govstack-global.atlassian.net/wiki/spaces/GH/overview Meeting with new GovStack Sandbox implementers last week, they will look at openIMIS details regular call with openIMIS developers re-activated deep dive today (again) with gofer compliance evaluation for openimis started: https://govstack-global.atlassian.net/wiki/spaces/GH/pages/17 2818480/Compliance+Evaluation+openIMIS Postman project shared with GovStack GOvStack testing harness for openIMIS starts with SolDevelo	15.06.2023
246	International Developers	A •	How do we make the community compatible with other language groups at all levels? French channel in discord? Workshop organised by Digital Square call with Digital Square, they set up a workshop on how to integrate other language communities team from DRC has joined planning for a developers coffee table session (e.g. once in two weeks/ one per month) - same timeslot as gumzo • shifting the toumai-developer call to second week because of easter monday #252	04.04.2023
249	Random Claim Sampling	I •	HIB has requested support on Claim Random Sampling. upload to github done, needs to be merged in legacy need to be migrated to modular - difficult for HIB	15.06.2023
250	Performance test (Modular) on big data set	A •	https://s2.openimis.org/front/home can it be further anonymized for use as demo data set needs to be extended to the PostgreSQL version migration script from existing MSSQL DB automatically create data set - functionality already in openIMIS - script from BISq is available (https://openimis.atlassian.net/wiki/spaces/OP/pages/3511418 884/Data+generation) o function not found error -> needs to pull from develop branch STPH released a script to development - doku needed count performance #358	15.06.2023

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252	Toumai Community		 Upcoming November 1: Review of openIMIS processes and implementation examples November 15: A database of documents and forms used by openIMIS implementers group: https://groups.google.com/g/openimis-toumai-new candidate has to be contracted 	16.03.2023
260	Documentation management platform	D •	Need to develop an implementer's guiding document on the payment layer docs.openimis.org (ReadTheDocs) openIMIS Docs https://openimis.gitbook.io/installation-and-country-localization/ (GitBook) need to standardise & improve module documentation (e.g. which repositories are involved?) topic in coordination desk team meeting #306 make it a priority next semester https://openimis.atlassian.net/wiki/spaces/OP/pages/346331545 7/2022-11-17+Developers+Deep+Dive+Call was a topic in community meeting - to be continued	15.06.2023
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 #288 Implementer documentation	09.06.2022
284	offline mode (web)	•	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 - validation via USSD? to check if this can be done via the new mobile solution # 343	09.02.2023
286	Mauritania Implementation	• -	https://openimis.atlassian.net/wiki/spaces/OP/pages/353314408 1/Project+Customization+Mauretania	15.06.2023
288	Implementer documentation	D •	Should we add specific documentation for the implementers (not end user or installation)? Explain the module configuration in details, start from new structure through tender 2? #306	10.11.2022
295	OpenMRS/BA HMNI FHIR	•	openMRS/BAHMNI FHIR needs to be updated to FHIR4 - workload and funds (Notice F2?)? (FHIR3 still works, though) Global OpenMRS packages still on FHIR3 - work in progress to migrate synchronise with Possible Health implementation FHIR4: there were updates in the BAHMNI packages FHIR5: #320 installation scripts from 2019 are difficult and specific the Possible Health Project FHIR update to FHIR4 in OpenMRS done, but no claims Presentation to be held by GIZ NP in Sydney (MedInfo)	20.04.2023
296	Cameroon Voucher Scheme	•	https://openimis.atlassian.net/wiki/spaces/OP/pages/347262158 9/Project%3A+Customization+Cameroon bundle/package of services and items, and voucher number validation features was developed by Y-Note #243 UCPC MoH	22.06.2023

			integration to main branch needed (PR needs to be fixed)	
301	Split database user Django module from ol modules	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 Add django modules from openimis modules this is not only about loading py modules, it needs to be part of	03.03.2022
			the DJANGO_MODULE in the assembly settings.py	
306	Documentation QA	A	 Consistent documentation Tasks: https://openimis.atlassian.net/wiki/spaces/OP/pages/32765050 89/Documentation+QA+Activities+2022 Wiki-structure: https://openimis.atlassian.net/wiki/spaces/OP/pages/32909230 09/Wiki+Target+Structure+Draft New focus on installation guide https://openimis.atlassian.net/wiki/spaces/OP/pages/33044889 61/Documentation+Taskforce documentation platform #260 Harmonizing openIMIS descriptions ->	22.06.2023
311	Mobile Offline extracts	A	 We decided not to include the web offline mode extracts but the Mobile app extracts and imports are necessary (and missing) They are actually included into the April release but not shown in the frontend. There are some issues with the existing system and mobile apps, so Bluesquare is currently testing this and making sure that it's available. Implemented in front and back, with rewrites of stored procedures Missing end-to-end testing on some features data for testing needed from STPH - will be generated through the beta tests 	13.10.2022
312	UI-Wording	D	 Automated translation done with verification (on all terms extracted) Who decides on wording in user-interfaces for the standard version? address this question to implementers Discuss: Who is responsible? make it part of the UAT - especially French version STPH started to check French terms on localise missing keys (e.g. login screen) 	15.06.2023
321	Compatibility with other DB systems	I	 Oracle is officially supported in Django openIMIS is most likely not able to take over Support for non-PostgreSQL stored procedures are still a problem different json dialects are handled by Django (indexing problem in MS-SQL reduced, but not efficient) - done 	25.05.2023

320 F 325 F 326 F 70 328 S	FHIR R5 FHIR R4 to R4B Publication to FHIR IG registry Sandbox openIMIS implementation for IDP in cameroon	A	 Only update of the openIMIS API V4, no parallel version should we implement PATCH HTTP method to update only changed fields in resources (PUT is replacing all fields and should validate mandatory fields)? 	25.05.2023 25.05.2023 25.05.2023 20.04.2023
320 F 325 F 326 F 70 328 S	Publication to FHIR IG registry Sandbox openIMIS implementation for IDP in	A	 Can this be funded through Digital Square? could be part of an implementation project official release done could be a student project / estimation of days needed update in claims: field for scheme not mandatory any more Should we upgrade FHIR R4 from 4.0.1 to 4.3.0? Only update of the openIMIS API V4, no parallel version should we implement PATCH HTTP method to update only changed fields in resources (PUT is replacing all fields and should validate mandatory fields)? Publication to FHIR IG registry http://registry.fhir.org needs to be done to enable the NP and TZ extension https://openimis.atlassian.net/wiki/spaces/OP/pages/3219128428/Sandbox+Landscape default: postgres, additional option MSSQL on release server MSSQL still required for the mobile App Demo -> PSQL Release -> MSSQL + Mobile backend DHIS2 demo needed (just data no ETL) where are the resources from the HISP India project - especially data are needed https://openimis.atlassian.net/wiki/spaces/OP/pages/3472621589/Project+Customization+Cameroon Insurance scheme like Voucher scheme with scoring system Bonus and penalties curation/filter for potential beneficiaries multi provider mechanism is needed: different providers, same invoicing channel 	25.05.2023 25.05.2023 09.02.2023
320 F 325 F 326 F 70 328 S	Publication to FHIR IG registry Sandbox	A	 Can this be funded through Digital Square? could be part of an implementation project official release done could be a student project / estimation of days needed update in claims: field for scheme not mandatory any more Should we upgrade FHIR R4 from 4.0.1 to 4.3.0? Only update of the openIMIS API V4, no parallel version should we implement PATCH HTTP method to update only changed fields in resources (PUT is replacing all fields and should validate mandatory fields)? Publication to FHIR IG registry http://registry.fhir.org needs to be done to enable the NP and TZ extension https://openimis.atlassian.net/wiki/spaces/OP/pages/3219128428/Sandbox+Landscape default: postgres, additional option MSSQL on release server MSSQL still required for the mobile App Demo -> PSQL Release -> MSSQL + Mobile backend DHIS2 demo needed (just data no ETL) where are the resources from the HISP India project - especially data are needed 	25.05.2023 25.05.2023
320 F 325 F	FHIR R4 to R4B Publication to FHIR IG	Α	 Can this be funded through Digital Square? could be part of an implementation project official release done could be a student project / estimation of days needed update in claims: field for scheme not mandatory any more Should we upgrade FHIR R4 from 4.0.1 to 4.3.0? Only update of the openIMIS API V4, no parallel version should we implement PATCH HTTP method to update only changed fields in resources (PUT is replacing all fields and should validate mandatory fields)? Publication to FHIR IG registry http://registry.fhir.org 	25.05.2023
320 F	FHIR R4 to R4B		 Can this be funded through Digital Square? could be part of an implementation project official release done could be a student project / estimation of days needed update in claims: field for scheme not mandatory any more Should we upgrade FHIR R4 from 4.0.1 to 4.3.0? Only update of the openIMIS API V4, no parallel version should we implement PATCH HTTP method to update only changed fields in resources (PUT is replacing all fields and should validate mandatory fields)? 	
ir	FHIR R5	A	 Can this be funded through Digital Square? could be part of an implementation project official release done could be a student project / estimation of days needed 	25.05.2023
ir			-	
	Implementation in DRC	Α	one configuration issue being discussed (waiting period)	22.06.2023
316 T	The Gambia	Α	 ticket current release: data migration from MS-SQL to PostgreSQL (might need customization) future releases: develop against PostgreSQL, migrate to MS-SQL or others if needed DB management done through Django from now on will allow for easier DB migration without SQL scripts https://openimis.atlassian.net/wiki/spaces/OP/pages/347711078 5/Project%3A+Customization+The+Gambia decision for OpenClinics GA https://sourceforge.net/projects/open-clinic/ will provide FHIR integration - another interoperability example for us demo on CRVS HERA integration - are the APIs openly documented? Based on https://github.com/SecureIdentityAlliance/osia A lot of things are not ready yet but Gambia wants to start ASAP, even if incomplete They are now considering a capitation system or a hybrid system, Bluesquare to investigate options. STPH warned that the current capitation implementation is very Tanzania centric. ePayment integration for commission payment 	25.05.2023

			- documentation will be shared later -> wikipage	
			 Cameroon project PoC not possible because HIV openIMIS instance is still Legacy. New contract is signed 	
			by STPH to migrate to modular and include this connection	
335	IHE profiles	Α	 Approach IHE to propose OpenHIE standards as IHE profile board meeting last Tuesday - next milestone in March next activity: look for IHE experts pull in GIZ expert - will join next FISh call 	20.04.2023
337	login case sensitivity		 postgres is case sensitive for login names, mssql isn't We can make it case insensitive but we have to be careful if people create a "admin" user when the actual one is Admin. PR made, CI errors ? On which branch to merge ? 	22.06.2023
339	Installation	A	 can we move to docker compose 3.8? swarms, secrets some option are not supported (see warning if 3.X is used) but nothing seems blocking move to 3.8: yes, but needs review - didn't work rework of the docker Move to docker 3 merge dist_dkr be assembly Changes need to be tested on standard platforms (linux) and windows and documented in <u>Installation Guide</u> Implications of having the docker compose versioned in be assembly need to be considered option for additional cloud init file: https://openimis.atlassian.net/wiki/spaces/OP/pages/351073075 7/deploying+with+docker+and+cloud-init Installation script from NP: change docker compose to create images via npm 	23.03.2023
341	Impact Evaluation NP	Ι	 STPH gained funds from WHO to do impact evaluation in Nepal preparation has started, results by end of April consultant is identified & contracted indicators and costs evaluation in progress 	20.04.2023
342	BI Architecture	ı	 Integrate elastic search or as part of an attached FHIR server indexation issue rebuild time needs a lot of Ram (in memory approach) Metabase? issue with weird OI db structure plan deep dive on Soldevelo ADX solution 	16.03.2023
350	Multi scheme provider / tenants		 Multi scheme provider vs. true multi tenancy Which data boundaries are needed? use cases coming up in CM and DRC https://openimis.atlassian.net/wiki/spaces/OP/pages/238708327 4/Idea+Separation+of+Target+Groups+Multi-tenancy https://openimis.atlassian.net/wiki/spaces/OP/pages/352246169 7/Idea+Multi-programmes 	09.03.2023
353	CORE MIS		 https://openimis.atlassian.net/wiki/spaces/OP/pages/353140738 O/Project+2022.T3+CORE-MIS+Merger first sprint: beneficiaries & households weekly deep dives every Tuesday at 15:00 CET open it up for all developers 	22.06.2023
354	Time quantity	Α	for plan (enrolment and payment) but also for policy duration; a time quantity could be useful: How openIMIS should manage time quantity BE/FE (e.g. monthly, period ,)	09.03.2023

355	Al Summit	Ι	2023-07-06 to 2023-07-07 Al for Good Global Summit	20.04.2023
357	caching balance	Α	provide a mechanism to increase the performance to calculate the balance per insuree - currently full table scans: Idea from nepal mission: - create a cache_balance table with those columns - balance (actually approved) - provisional (submitted claim) - temporary (draft claim) https://openimis.atlassian.net/wiki/spaces/OP/pages/3542286337/Benefit+consumption+module+Enquire	15.06.2023
339	Items and service UI		Missing entries mask that cannot match to any insuree should not be saved : if none select for a specific concern then applicability for all should be saved for that concerns 1 mask when we might need 1 mask per concern Sex Age group issue for quick fix	22.06.2023
361	Review technology to fulfil evergreen idea	Ι	https://openimis.atlassian.net/browse/OP-1372 #368 - decisions may eliminate some points	22.06.2023
363	Product determination stage	I	 When we create a claim, the items and services are not assigned to a product until the claim is submitted and validation passed. Consequences: the Health Facility cannot know the deductible some report might hide some claims Claim predetermination to have valuation of the claim without saving in DB Incubator: page to be created 	22.06.2023
364	New enrollment/Enq uiry App HIB	D	 HIB has developed a new Mobile Application Contracted Tinker Technology Already in Play Store can we integrate this into the main release? 	25.05.2023
365	Version tracks	Α	 Fixes are coming for the release CORE-MIS will be changing deeply LTS vs development => features go to which branch merging of branches is out of synch - clean up 	22.06.2023
366	SSF ERP NP		set up deep dive to discuss new features	15.06.2023
367	Free enroll <5 and 65+		 Adding a product with a 0 contribution doesn't allow enrollment Making the contribution free for some beneficiaries make it a deep dive 	15.06.2023
368	Server Side Rendering	А	Deepdive: https://openimis.atlassian.net/wiki/spaces/OP/pages/35577528 33/2023-05-25+Developers+Deep+Dive+Call need to discuss this again after SolDevelo does the first changes #361 - impact on migration scenarios wait for budget	22.06.2023
369	Claim automation	Α	review process	15.06.2023
370	Change way settings are loaded	Α	https://github.com/openimis/openimis-be_py/pull/95/files useful to add scheduled tasks in settings eg. policy renewal	22.06.2023

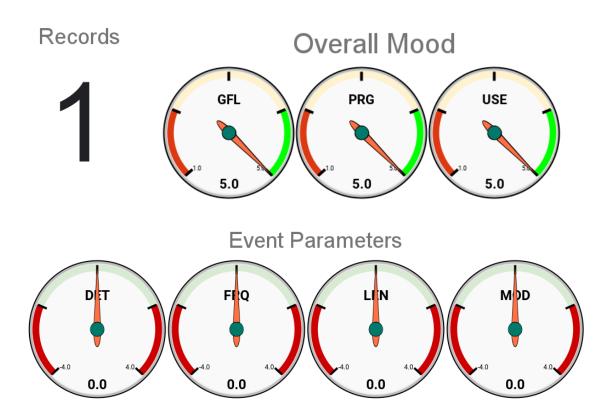
371	Rename batch-run	D	•	rename batch-run to payment cycle?	22.06.2023
372	Task based WF	I	•	new approach rom CORE-MIS project: https://openimis.atlassian.net/wiki/spaces/OP/pages/3564503053/Task+based+update+-+technical+details	22.06.2023

Deep Dive Topics:

- 2023-06-29: Change way settings are loaded #370
- 2023-06-22:
 - o FHIR APIs for mobile APP
 - o interoperability roadmap
 - o GovStack Testing Harness
- 2023-05-25: Server Side Rendering
- 2023-04-20: Review technology to fulfil evergreen idea
- 2023-03-23: Discuss best practices for customising openIMIS without breaking the core
- anonymization in HIV scheme
- Multi scheme providers
- DHIS2 integration demo Hiren (Swiss TPH)
- Kubernetes vs. Docker
- Payment Layer use-case
- Semantic versioning
- Mobile applications & API migration to modular
- Database compatibility
- OpenHIE Health Financing toward UHC workflows
- Remodelling Products & Coverage (Benefit package):

https://openimis.atlassian.net/wiki/spaces/OP/pages/3463577606/Product+refactoring

Meeting evaluation:



Legend:

Overall mood (status):

GFL: General feeling about the meeting [very disappointed ... very glad]

PRG: General feeling about project progress (own project) [big trouble ... great success]

USE: Usefulness of the meeting (for own project) [not at all ... very much]

Event parameters of the meeting (XYZ needs to be ...):

DET: Degree of detail [more condensed ... more detailed]

FRQ: Frequency of the event [fewer ... more]
LEN: Length of the event [shorter ... longer]
MOD: Moderation [stricter ... more open]