


2015-04-23 Developers Forum

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By Browser

- <https://www.uberconference.com/openmrs>

By telephone

- US telephone number: **+1 201.479.2627**

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Agenda

- Quickly review previous meeting minutes (5 min)
- Review next meeting agenda

Minutes

[View at notes.openmrs.org](http://notes.openmrs.org)

OpenMRS Developers Forum 2015-04-23

Recording: <http://goo.gl/Sz2ILH> (Audio)

Attendees

- Burke Mamlin
- Michael Downey
- Tim Nicholson
- Rafal Korytkowski
- Tharunya _
- Tomasz Mueller
- Darius Jazayeri
- Willa Mhawila
- Saptarshi Purkayastha
- Ada
- Daniel Kayiwa
- Manika Praveenkumar Maheshwari
- Ryan Yates
- Maurya

- Karl Wurst

Agenda & Notes

- Review last week TODOs
 - TODO: **Burke** to notify presenters about their dev forum topics
 - TODO: **Someone** to Get MariaDB support on the roadmap <<http://om.rs/roadmap>>
 - TODO: **Someone** to enumerate which of our distributed modules (those in the 2.2 refapp <<https://wiki.openmrs.org/x/A5rKB>>) are not hibernate and/or liquibase
 - TODO: **Someone** to Set up CI builds for MariaDB, PostgreSQL, and SQLServer, Oracle (We assume these will not be green lights)
 - TODO: **Someone** to Create tickets to address problems that occur for alternate DBs
 - TODO: **Someone** to Schedule sprint(s) to address DB tickets
- QA Systems (load testing and performance testing)
 - <https://talk.openmrs.org/t/forming-a-quality-assurance-team/1685>
 - Follow up from the last wave of this topic: IU no longer allows non-IU systems to use NeoLoad & Dynatrace. :(
 - Functional Testing
 - JBehave
 - Need to be "smart" about functional testing, since these can be brittle, so need to focus on high value tests and create them in a way that is as robust as possible
 - Example of a JIRA issue to spec out a functional test: <https://mifosforge.jira.com/browse/MIFOSTEST-1195>
 - In the past we used Selenium/WebDriver: <http://jbehave.org/reference/web/stable/using-selenium.html>
 - We have incoming volunteers who aren't devs but are interested & willing to do manual functional testing ... unfortunately we don't usually have much for them to do
 - Acceptance Testing
 - Nice guide for ensuring the UI is ready for automating acceptance tests: <https://mifosforge.jira.com/wiki/display/MIFOS/Writing+Acceptance+Tests>
 - Performance Testing
 - OpenMRS 1.8 focused on performance improvements and, for that release, we set up a CI build onto a spare server (non-VM) to generate a report of performance metrics (e.g., patient search, dashboard load time, etc.).
 - Is this a priority for us? Would we like to have build tests that check performance? Break builds if performance metric doesn't meet goal?
 - Implementations notice quickly with patient search takes 2 minutes, but we may not need a fancy, automated system to address these issues (in terms of priorities)
 - There are likely higher priorities – e.g., functional testing, testing against other databases, testing deployments (large db, upgrades, etc.)
 - Cloud-based service that use things like JMeter, e.g.: <http://blazemeter.com/>
 - What did Soldevelo and the Mifos team establish for their app? Sequence: Functional Testing, (Automated) Acceptance Testing, Performance Testing, Release Testing
- Load Testing
 - How many concurrent users does OpenMRS support (on specific server specs)?
 - Darius: Lower in the priority list
 - Corollary: How many concurrent users do most large implementations have, and what type of work are those users doing?
- Unit Testing
 - We feel like we're doing reasonably well

- Should probably do more mocks, so testing is more reliable & runs faster
- How long should it take to run unit tests? How long is "too long" (when devs stop using skipTests by default)?
 - "If you have tests that are useful, but take longer than you want the commit suite to run, then you should build a DeploymentPipeline and put the slower tests in a later stage of the pipeline." - Martin Fowler <http://martinfowler.com/bliki/UnitTest.html>
 - "Ideally, you're just running the unit tests specific to the changes your are making while developing, then only need to run the full suite once before committing code." -Darius Jazayeri (<http://maven.apache.org/surefire/maven-surefire-plugin/examples/single-test.html>)
 - Expect devs to run their tests using IDE as they develop.
 - Expect devs to run full suite of tests before committing code.
 - TODO: push for mocks over integration tests
 - TODO: document how to test within IDE in dev pages in wiki
- Infrastructure update
 - OpenMRS Talk & Google Groups
 - Migrations away from Google Groups: Implementers Group on 2015-03-05, Developers Group on 2015-04-10
 - Increased activity: Nearly 20% of all Talk topics (159) **and** posts (817), and 30% (23,684) of all emails since early 2014, happened in the last 30 days
 - Last month: 1,224 unique visitors (up 6%) spent 7m40s (up 11%) during a typical visit
 - 570 users and counting have signed in with their OpenMRS ID & participated
 - Feedback encouraged: <https://help.openmrs.org/>
 - Confluence wiki updates
 - Now running 5.7.3
 - Some performance improvements, but required doubling available memory to upgrade
 - New fonts, styles, colors, etc.
 - Improvements to authentication systems
 - Anticipated OpenMRS ID Dashboard 2.1 GSoC project. Highlights:
 - Support two-factor authentication for OAuth-based sign ins
 - Automatic synchronization (creation) of all OpenMRS ID users in Talk/Discourse
 - Build a REST API for working with user profile data
 - 3rd-party sign in and profile creation from Google, Facebook, GitHub, etc.
 - Various backend improvements
 - Private authentication network for improved Atlassian performance (direct LDAP auth to eliminate dependency on bad Crowd sync code)
 - Status site: <http://status.openmrs.org/> - bookmark & subscribe to updates!
- After Action Review
 - What did you expect to happen?
 - What actually happened?
 - What can we do better?
- Preview Next Week
 - 30 April: OpenERP showcase w/ Bahmni, OpenMRS 2.2 retrospective
 - 7 May: Google-MSF Ebola project

TODOs

Outstanding TODOs (0 issues)

Summary	Assignee	Created	Due
No issues found			

Create a TODO: <http://go.openmrs.org/todo>

Transcripts

- Audio recording of the call: Listen online or download (available after the meeting)