


# 2015-04-23 Developers Forum

## How to Join


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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 you're 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)

