

# Technical Roadmap

## What is the OpenMRS Technical Roadmap?

The Technical OpenMRS Roadmap is a set of milestones for our Platform, Reference Application, community-sponsored modules, and related tasks that help us meet the needs of our implementations.

For information about how the roadmap milestones are chosen and prioritized, see the [Technical Roadmap Planning](#) page.

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## Milestones

### Platform 2.3 ( June 2019)

Release Manager: [Nathan Ruhanga](#) Release Mentor: [Samuel Male](#)

**Operational Strategic Stretch Goal: Commence discussions on how to include decision support ; Output being a strategy paper with possible options**

	Feature	Description	Status	Point of Contact	Comments
1	REST resource for Creating Order Group	<a href="#">RESTWS-680</a> - Getting issue details... <input type="button" value="STATUS"/>	<input type="button" value="DONE"/>		Need to ask product owner if they are still interested in continuing @ Yusuf Akhond

2	Upgrade our libraries	<p><b>TRUNK-5500</b> - Getting issue details... STATUS</p> <p><b>TRUNK-5503</b> - Getting issue details... STATUS</p> <p><b>TRUNK-5512</b> - Getting issue details... STATUS</p> <p><b>TRUNK-5519</b> - Getting issue details... STATUS</p> <p><b>TRUNK-5524</b> - Getting issue details... STATUS</p> <p><b>TRUNK-5525</b> - Getting issue details... STATUS</p> <p><b>TRUNK-5526</b> - Getting issue details... STATUS</p> <p><b>TRUNK-5531</b> - Getting issue details... STATUS</p> <p><b>TRUNK-5537</b> - Getting issue details... STATUS</p> <p><b>TRUNK-5537</b> - Getting issue details... STATUS</p> <p><b>TRUNK-5554</b> - Getting issue details... STATUS</p>	DONE	Burke Mamlin	<p>Review of the palm file to better understand which libraries need upgrading; i.e. what libraries do we have and what is the latest for that version.</p> <p>We could write a maven command that can generate a report with libraries that need updating. From there we can determine what level of effort will be required to upgrade the library.</p>
5	Bundle addon manager owa	<p><b>PLAT-30</b> - Getting issue details... STATUS</p>	BEING TESTED	Daniel Kayiwa	Need dev to do final testing. If we can find dev in the community, great; otherwise, Daniel will do.
6	FHIR	<p><b>FM-263</b> - Getting issue details... STATUS</p>	DONE		
7	Adopting OpenJDK	<p><b>TRUNK-5488</b> - Getting issue details... STATUS</p>	DONE		<p>May need to get feedback from the community on whether they have used OpenJDK and whether it is stable enough</p> <p>Review the CI build to determine if it can run on OpenJDK</p>

8	Support for alternate authentication schemes	<a href="#">TRUNK-381 - Getting issue details...</a> <input type="button" value="STATUS"/>	<b>DONE</b>	Dimitri R	<ul style="list-style-type: none"> <li>To include <a href="#">TRUNK-381 - Getting issue details...</a> <input type="button" value="STATUS"/> in the release notes . Already merged but should be noted.</li> </ul>
9	Use of the new Implementation ID server URL, and support for redirects & https in the custom HttpClient class	<a href="#">TRUNK-5384 - Getting issue details...</a> <input type="button" value="STATUS"/>	<b>DONE</b>		

## Release Manager: TBDPlatform 2.4 ( TBD 2019)

**Operational Strategic Goal: Commence discussions on how to include decision support ; Output being a strategy paper with possible options**

Feature	Description	Status	Point of Contact	Comments
Order Templates	<a href="https://talk.openmrs.org/t/order-templates/21564">https://talk.openmrs.org/t/order-templates/21564</a> .	<b>NOT STARTED</b>	Jonathan Dick	

## Reference Application 2.10 (TBD 2019)

Ongoing talk post for [roadmap planning](#)

Optional Features for consideration in Ref 2.10:

	Feature	Description	Status	Point of Contact	Comments
1	Offline Capability				
2	Developing an upward/backward migration path				
3					

## Reference Application 2.9 (April 2019)

Release Manager: [Reuben Varghese](#)

Feature	Description	Status	Point of Contact	Comments

Reference Application	<a href="#">RA-995</a> - Getting issue details... <input type="button" value="STATUS"/>	RELEASED	<a href="#">Stephen Senkomago Musoke</a>	<ul style="list-style-type: none"> <li>• These issues have had their respective PRs merged.</li> <li>• They need to be tested thoroughly before being marked as complete.</li> <li>• Instructions for testing will be posted soon.</li> </ul>
	<a href="#">RA-1383</a> - Getting issue details... <input type="button" value="STATUS"/>			
	<a href="#">RA-1485</a> - Getting issue details... <input type="button" value="STATUS"/>			
	<a href="#">RA-1513</a> - Getting issue details... <input type="button" value="STATUS"/>			
	<a href="#">RA-1503</a> - Getting issue details... <input type="button" value="STATUS"/>			
	<a href="#">RA-1511</a> - Getting issue details... <input type="button" value="STATUS"/>			

## Platform 2.2 (March 2019)

Release Manager: [Samuel Male](#) and [Irene Nyakate](#)

Feature	Description	Status	Point of Contact	Comments
Idgen	<a href="#">IDGEN-33</a> - Getting issue details... <input type="button" value="STATUS"/> <a href="#">IDGEN-42</a> - Getting issue details... <input type="button" value="STATUS"/>	DONE	<a href="#">Mike Seaton</a> / <a href="#">Mark Goodrich</a>	IDGEN-42 was being worked on by <a href="#">Daniel Kayiwa</a> , but he is busy with multitasking, so we need to find someone to take this on.  <a href="#">tendo kiiza Martyn</a> picked it up and is working on this Issue  <a href="#">Samuel Male</a> planning to help Tendo finish the ticket after exams (tomorrow)
Encounter Diagnosis	<a href="#">TRUNK-5015</a> - Getting issue details... <input type="button" value="STATUS"/> Subtask: <a href="#">TRUNK-5342</a> - Getting issue details... <input type="button" value="STATUS"/>	DONE		<a href="#">Daniel Kayiwa</a> closed this ticket after all work on it was done.
Provider Roles	<a href="#">TRUNK-4791</a> - Getting issue details... <input type="button" value="STATUS"/>	DONE	<a href="#">Mark Goodrich</a>	Finished by <a href="#">Wyclif Luyima</a> and a followup ticket created as <a href="#">RA-1174</a> for the remaining work in the reference application.
Creable, Changeable interfaces	<a href="#">TRUNK-4917</a> - Getting issue details... <input type="button" value="STATUS"/>	DONE	<a href="#">Wyclif Luyima</a>	
Program Enrollment Attributes	<a href="#">TRUNK-4755</a> - Getting issue details... <input type="button" value="STATUS"/>	DONE	<a href="#">Daniel Kayiwa</a> , <a href="#">Steven Musoke</a>	<a href="#">Daniel Kayiwa</a> made a followup commit for the remaining minor issues.
Bundle addon manager owa	<a href="#">PLAT-30</a> - Getting issue details... <input type="button" value="STATUS"/>	IN PROGRESS	<a href="#">Daniel Kayiwa</a>	Need dev to do final testing. If we can find dev in the community, great; otherwise, Daniel will do.

## Reference Application Someday

Feature	Description	Status	Point of Contact	Comments

Add Order Entry UI	Add some sort of user interface for doing order entry.		Daniel Kayiwa	We could polish up the <a href="#">orderentryui</a> module, or do an OWA from scratch. Whichever we find easier.
Add Patient Flags Module		NOT DONE		Still under development
Responsive ability to the clinician facing dashboard	<a href="#">RA-1285</a> - Getting issue details... <span>STATUS</span>	NOT DONE		
Core and modules to advertise capabilities that can be configured and manipulated	<a href="#">RA-1292</a> - Getting issue details... <span>STATUS</span>	NOT DONE		Not started
MPI enhancements to Registration App and Registration Core	Production quality integration with OpenEMPI using HL7 v3 PIX/PDQ messaging standards	IN PROGRESS	Nathael Hyppolite	Discussion on <a href="#">talk</a> .
Pre-built Reporting Tools	This includes the ability to do several things. <ol style="list-style-type: none"> <li>Run a report for a patient directly from the patient dashboard.</li> </ol> <a href="#">RA-381</a> - Getting issue details... <span>STATUS</span>	IN PROGRESS	Mike Seaton	Patient summary module does not provide adequate configuration and doesn't work in Ref App.  27-March: We could include Reporting REST documentation that <a href="#">Darius Jazayeri</a> and the Andela team have done.
OCL subscription module	Using KenyaEMR as a use case, create a tool for subscribing an OpenMRS instance to a dictionary (e.g. the CIEL dictionary)	BETA	Nicholas Ingosi and Rafa Korytkowski	<a href="#">OCLM-24</a> - Getting issue details... <span>STATUS</span>
Retrospective data entry	Basic support for retrospective data entry within the Reference Application <a href="#">RA-68</a> - Getting issue details... <span>STATUS</span>	NOT STARTED		Needs a user centric story - add to existing ticket
OpenMRS Web Framework	From discussions in <a href="#">#MOZ15</a> , we would like for the OpenMRS Platform to evolve toward providing a web framework that allows developers to add functionality using standard development tools (e.g., HTML5 + JavaScript against REST services, AngularJS apps, OWA, ...).	IN DESIGN	Burke Mamlin	Ranking REST tickets on 5 Aug design call.  <a href="#">Burke Mamlin</a> and <a href="#">Darius Jazayeri</a> discussed 24-July-2015 and Darius will make a Talk topic to move this forward.  Bahmni technical deep dive scheduled for 4 June <a href="#">Developers Forum</a> .  17 June design forum will discuss progress (coordinating various efforts). As well as look at how to make REST services more robust. Darius still working w/ Bahmni on fundamental pieces of their web framework to pull into OpenMRS (will talk about this on future call).  25 June dev forum on <a href="#">REST web services: how to substantially improve them W/ Burke Mamlin &amp; Darius Jazayeri</a>

Vertical Packaging	OpenMRS has a lot of flexibility and extensibility with a central concept dictionary, RBAC, forms, reports, modules, and apps; however, it's not always easy to know which metadata goes with which functionality. The goal of vertical packaging is to define best practices for managing and relating all of the components (metadata & behavior) that work together to solve a particular problem within OpenMRS. Eventually, we envision a way that someone could easily add the MDRTB package to their OpenMRS implementation to begin treating MDRTB patients... or upgrade their Oncology package, etc.	IN DESIGN	Rafal Korytkowski	Need to look at the design we had and see if we can get it in 2.3  Burke Mamlin to share first draft of metadata mapping design on Talk.  First step will be to add ability to map metadata, 22 June design forum  Discussed on 20 May design forum.
Condition List	Manage & view patient problems (e.g., on the patient dashboard and integrated with diagnosis capture)  EA-40 - Getting issue details... STATUS  See also: RA-209 - Getting issue details... STATUS  • RA-580 - Getting issue details... STATUS	IN PROGRESS  see Condition List board	Daniel Kayiwa  Ravinder Kumar	Daniel took a look at condition list to see what we need to do to get the API in 2.3 and believes if we do not get volunteers on admin sprint then condition list will not be ready.,  13 April WIP given on design call  1 June design forum to define how encounter diagnoses should work with conditions (and condition list).  Talked w/ Bahmni BA (Saranya) about use cases and requirements on 15 June design forum
Basic Order Entry for meds and tests	Basic ordering of meds and tests "out of the box" in Reference Application.	IN DESIGN		
Ad Hoc Analysis tool (v1)	Incorporate new cohort definition tool.  RA-261 - Getting issue details... STATUS	STALLED		
Concept Management Improvements	Allow for concept merging and easier browsing through concepts and references terms without losing frame of reference.			
Improvements to Permissions (technical implementation)	Avoid giving all API privileges to users  RA-341 - Getting issue details... STATUS	NOT DONE	Burke Mamlin	Needs discussion and design  Would like input from implementations, PIH (Mark, Mike, David) AMPATH, Kenya EMR, BAMI/JSS  Need to reach out for inputs!  Kiran has started helping with this
Provider Management	Would include provider types and ability to retire the old provider management module. Will remove UI library module once provider management is in the core.	NOT DONE		

## Platform Someday

Feature	Description	Status	Comments
Multiple concept classes per concept	TRUNK-4540 - Getting issue details... STATUS	NOT DONE	
Anonymous Patients	Support for unnamed John Doe patients  RA-62 - Getting issue details... STATUS	NOT DONE	
Test Patients	Support for tagging & recognizing test/fake patients, so they can be ignored within reports.  RA-65 - Getting issue details... STATUS	NOT DONE	
Decision Support (v1)	The first trivial example of providing decision-support feedback (includes significant design and back-end discussions)		

Clinical Encounter	Record the entire clinical transaction piece-by-piece as part of a Session, as opposed to via a Form.		
Patient Lists	e.g. "My Patients", "Inpatients on Service XYZ", etc. (Related to RA-202.)		
Program Enrollments	v1: capturing this data; v2: drive available forms/actions based on program state		