

OpenMRS: OVERVIEW

Corso di Informatica Medica

Docente Sara Renata Francesca MARCEGLIA

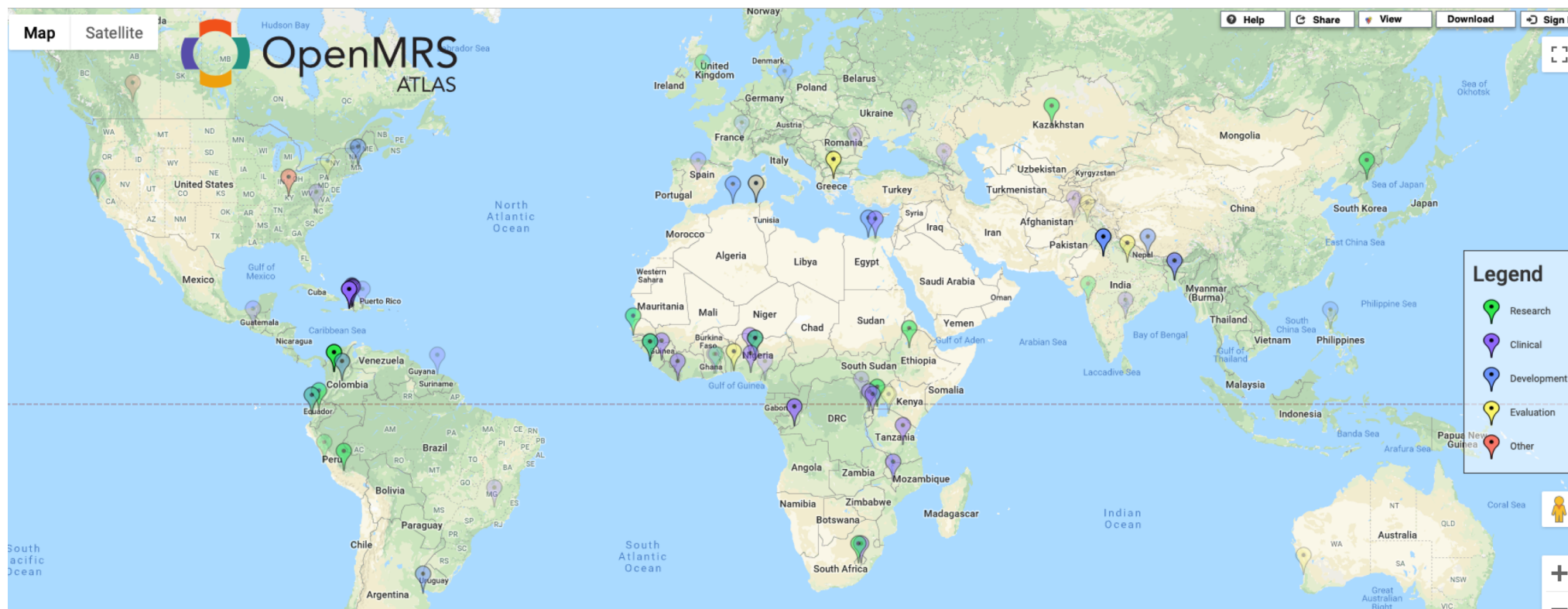
WHAT IS OPENMRS



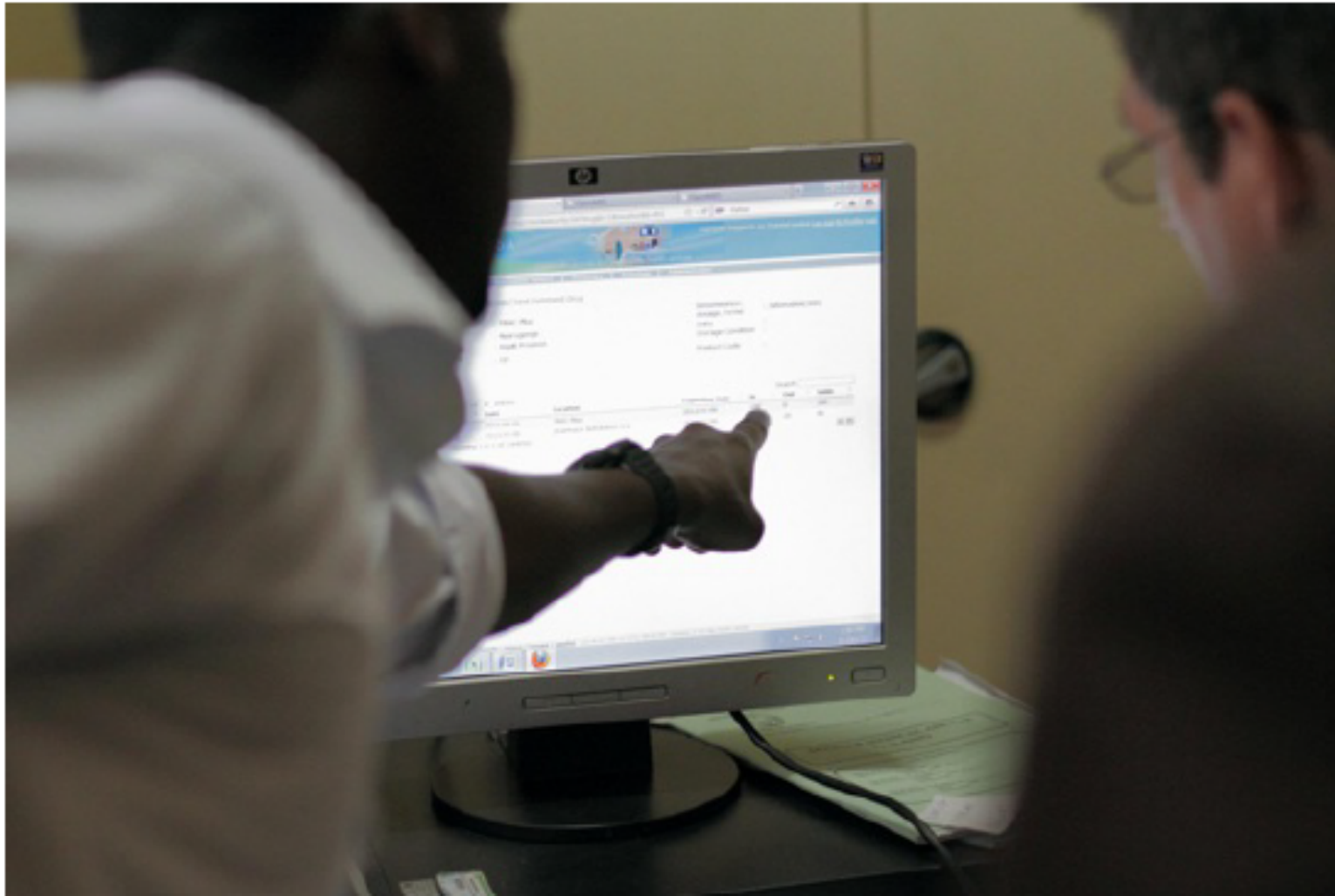
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The mission of OpenMRS is to improve health care delivery in resource-constrained environments by coordinating a global community that creates a robust, scalable, user-driven, open source medical record system platform

OPENMRS: LOCATIONS AROUND THE WORLD



OPENMRS WAS CREATED FOR THE DEVELOPING COUNTRIES



OpenMRS in use at TRAC Plus Clinic in Kigali, Rwanda.

OPEN SOURCE: IMPLEMENTATION VS DEVELOPMENT



IMPLEMENTERS

- Clinics/Hospitals in need of the EHR system
- Install OpenMRS and Use it
- Create the dictionary and the forms useful for their implementation
- Rely on the development community for new features → use modules

DEVELOPERS

- Information scientists who develop the source code
- Work independently or after being committed to a project
- The source code is available
- There is a large developer community around the world
- Develop modules

FROM PAPER-BASED RECORDS... TO THE EHR



A paper-based patient register book at an African OpenMRS clinic.

THE DEVELOPMENT PROCESS: IDENTIFYING YOUR NEEDS



YOUR ORGANIZATIONAL GOALS AND PRACTICES

For now, forget about technology and instead think about your organizational goals and processes. Here's a list of questions to start:

- What are the high level goals of your organization?
- What are the teams and staff in the clinic? What roles exist? What functions does each role perform?
- What tasks are staff involved with on a day to day basis?
- What services does the clinic provide to your patients? What activities are involved?
- What other 3rd-party or government organizations do you report to? What information is included in each of these reports?

TAKE ADVANTAGE OF INSTITUTIONAL KNOWLEDGE

As you think about your patients and how they interact with your organization, talk to your clinical and administrative staff -- both those who have been around a long time, and those who have just joined. Talk to as many people as you possibly can to get a complete picture of every service provided to patients.



MAP YOUR NEEDS TO OPENMRS



THE OPEN SOURCE COMMUNITY

DO NOT "REINVENT THE WHEEL"

The open source ethos of OpenMRS extends beyond just the application, to a much larger open community where ideas and experiences are shared. There are many existing resources available in the form of pre-built OpenMRS features (modules) and content that a new implementer should take advantage of. You should explore the following resources before building anything new.

Reuse an existing concept dictionary

Adapt existing forms

Implementers should evaluate data collection forms built by other OpenMRS users before creating new custom forms for their specific needs.

Explore the module repository

Implementers should consult the OpenMRS Module Repository at <http://modules.openmrs.org/> before considering customization through software development.

...AND THEN IMPLEMENT...



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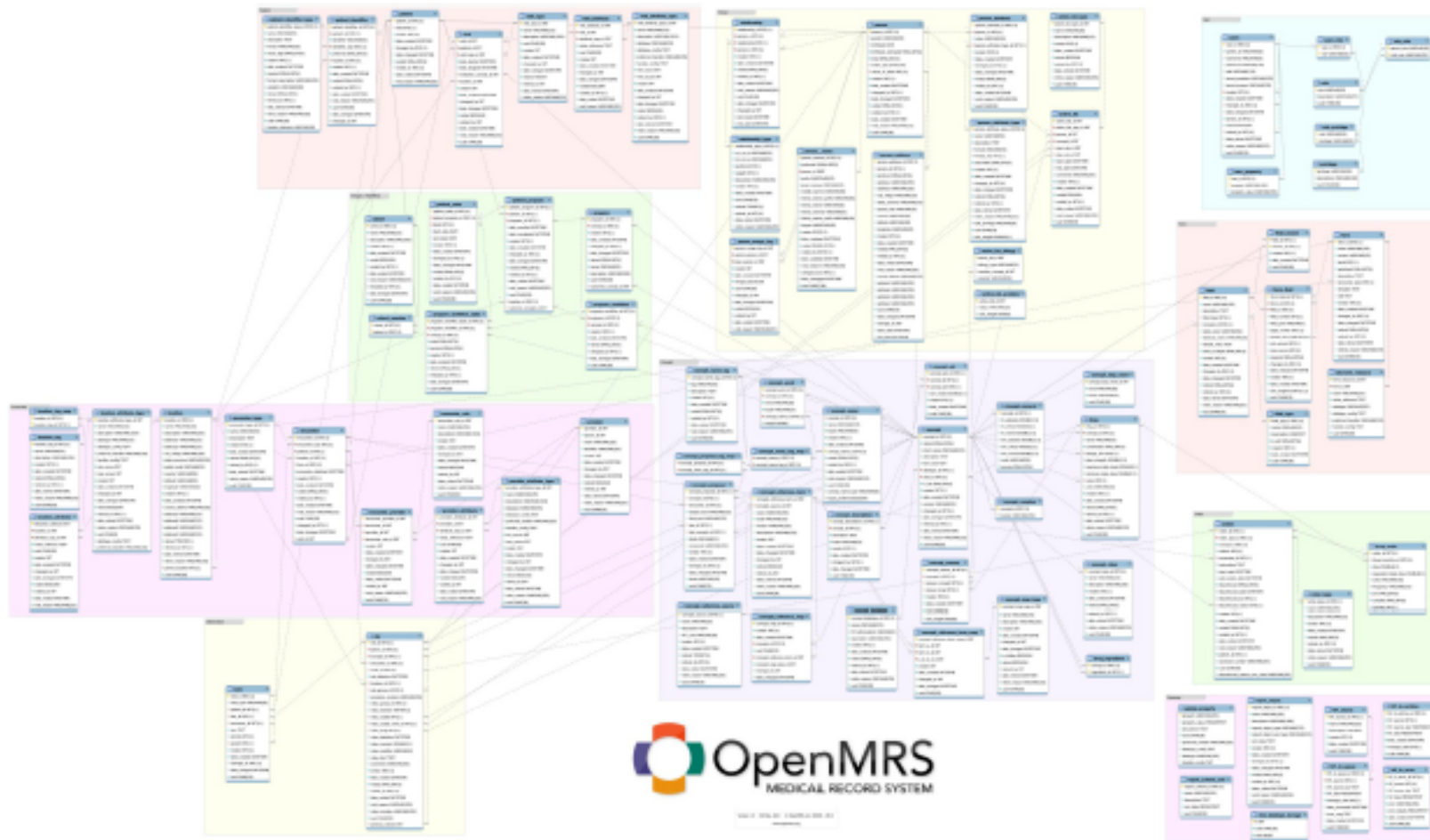
An OpenMRS server in Uganda.



THE INFORMATION MODEL

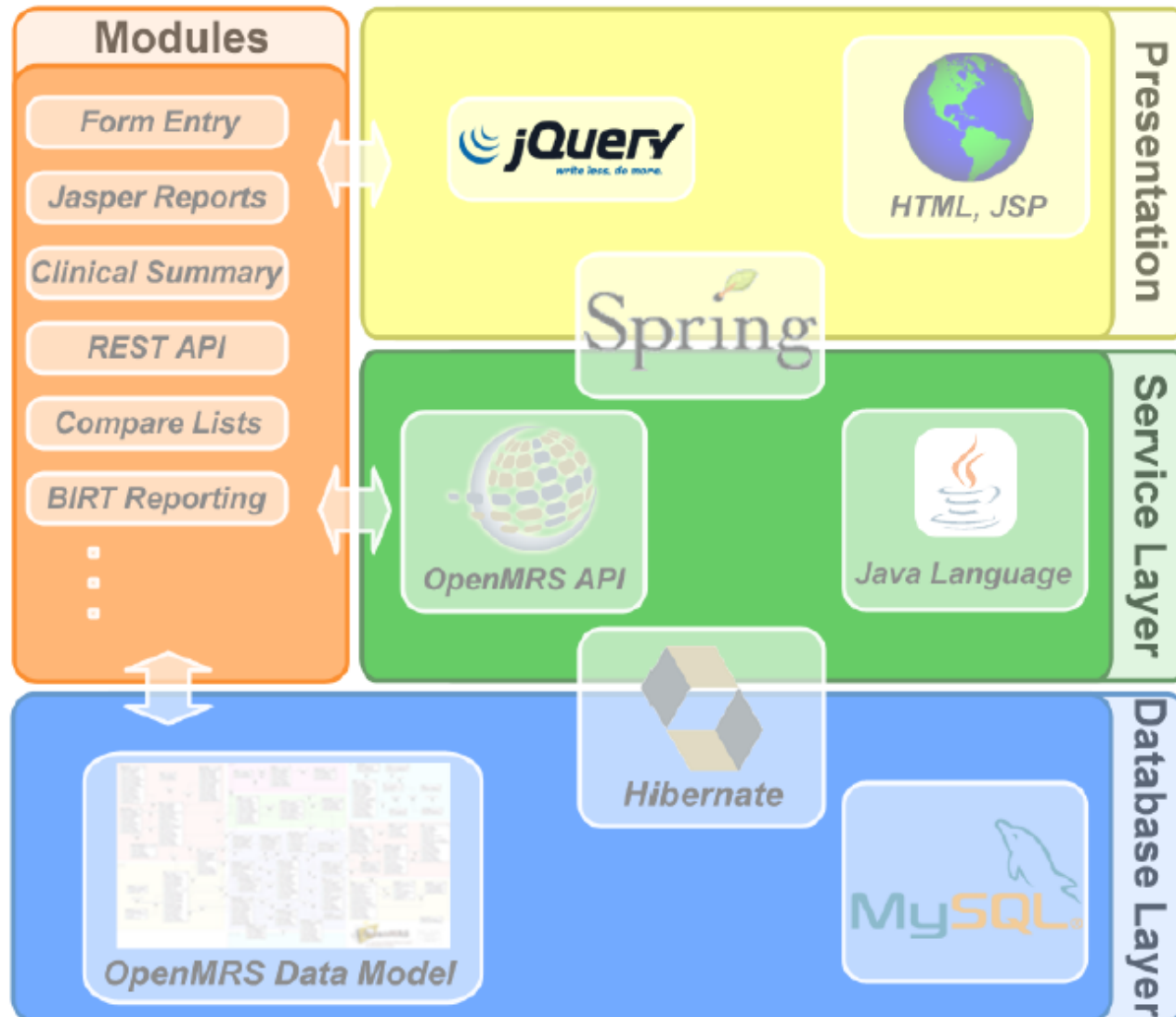
- DATA
 - Person
 - Encounter
 - Visit
 - Observation
 - Order
 - Workflow
- METADATA
 - Locations
 - Concept Dictionary
- FORMS

THE DATA MODEL



OpenMRS data model version 1.9. Details at <http://go.openmrs.org/newdev-data>

ARCHITECTURE



An overview of OpenMRS

GET INVOLVED



The OpenMRS Community, circa 2013



DOWNLOAD OpenMRS

STANDALONE

Reference Application 2.8.0

Standalone Edition

323.1 MB at sourceforge.net · Released 27-June-2018

Linux, Mac OS X, Windows · [Release Notes](#)

Recommended for new people exploring OpenMRS. A self-contained ZIP archive that includes an embedded database and application server, as well the option to install demo data for sample patients. Expand the ZIP archive and run the .jar file to start the Reference Application. Log in with username: **admin**, password: **Admin123**.

This is not intended for production use.

PRODUCTION


Reference Application 2.8.0


Individual Components for Advanced Installation

Released 27-June-2018

Linux, Mac OS X, Windows · [Release Notes](#)

For production use of the Reference Application, you must install an OpenMRS Platform WAR, which requires an existing Java servlet container such as Apache Tomcat, and an existing database such as MySQL. Download these individual components here:

 [Download Platform 2.1.3 WAR](#)

 [Download Reference Application 2.8.0 Addons](#)

Platform 2.1.3

Standalone Edition

395.7 MB at sourceforge.net · Released 30th March 2018

Multi-platform Java webapp · [Release Notes](#)

Recommended for people exploring the latest stable version of Platform. A self-contained ZIP archive that includes an embedded database and application server, as well the option to install demo data for 5,000 sample patients. Expand the ZIP archive and run the .jar file to start OpenMRS. Log in with username: **admin**, password: **test**.

This is not intended for production use.

Platform 2.1.3

WAR (for Enterprise)

83.4 MB at sourceforge.net · Released 30th March 2018

Multi-platform Java webapp · [Release Notes](#)

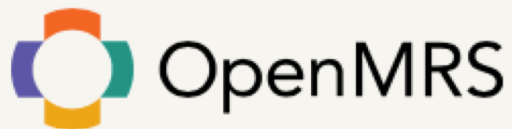
Recommended for advanced users using Reference Application 2.x or Platform in production. Requires an existing Java servlet container such as Apache Tomcat, and an existing database such as MySQL. Separate demo data is available for download below.

<http://openmrs.org/download/>

THE DEMO ENVIRONMENT



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[About Us](#)

[Get Involved](#)

[Tools](#)

[Demo](#)

OpenMRS Demo

OpenMRS demos are designed to give you a taste of OpenMRS from an implementer's point of view. It is a fully working copy of OpenMRS with observations on large numbers of anonymized patients. **These are not real patients.** Log in to examine all of OpenMRS's features.

Our demo is a standard OpenMRS reference application installation – what you would find if you download OpenMRS yourself from our download page.

[✓ Launch the OpenMRS Demo](#)

Username: **admin**

Password: **Admin123**

On your first visit, you must select a location before you will be able to log in.

This demo system resets itself periodically. If it is temporarily unavailable, please try again in a few minutes.

THE STANDALONE EDITION



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demo.openmrs.org

OpenMRS
MEDICAL RECORD SYSTEM

LOGIN

Username: admin Password:

Location for this session:

Inpatient Ward	Isolation Ward	Laboratory
Outpatient Clinic	Pharmacy	Registration Desk

Log In

Can't log in?

Choose the location for the session

Username: admin
Password: Admin123

APPLICATION HOMEPAGE



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admin ▾

Inpatient Ward ▾

Logout ↗



Please tell us about your installation for the OpenMRS Atlas

[Configure Atlas](#)

Logged in as Super User () at Inpatient Ward.



Find Patient Record



Active Visits



Appointment
Scheduling



Register a patient



Capture Vitals



Reports



Data Management



Configure Metadata



System
Administration



Find Patient Record



Identifier	Name	Gender	Age	Birthdate
100397	Brian Smith	M	58	17 Jun 1958
100199	Jessica Smith	F	40	02 Jan 1977
1001MH	John Smith	M	47	19 Jun 1969
100694	Joseph Smith	M	42	09 Jan 1975
1001LK	Lisa Smith	F	76	04 May 1940
100GHA	Mary Smith	F	61	18 Jun 1955
1005HM	Michelle Smith	F	30	14 Apr 1986
10064F	Paul Smith	M	51	04 Jul 1965
10080M	Paul Smith	M	39	12 May 1977
100DEM	Robert Smith	M	77	13 Apr 1939
10017E	Thomas Smith	M	18	25 Mar 1999

Showing 1 to 11 of 11 entries

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)



> Jessica Smith

Jessica Smith

Female 40 year(s) (02.Jan.1977) [Edit](#) [Show Contact Info](#)

Patient ID 100199

Given Family Name

DIAGNOSES

- GI upset
- Seizure
- Rheumatic fever without heart involvement
- Sexually transmitted disease
- Musculoskeletal pain
- Genitourinary tract infection in pregnancy
- Diarrhea
- Dysphagia
- Labor and delivery complicated by intrapartum hemorrhage
- Peptic ulcer

RECENT VISITS

25.Dec.2016	Outpatient
30.Nov.2016 - 02.Dec.2016	Inpatient
29.Sep.2016	Outpatient
27.Oct.2015	Outpatient
08.Sep.2015	Outpatient

ALLERGIES

Unknown

General Actions

- Start Visit
- + Add Past Visit
- Merge Visits
- Q Chart Search
- Schedule Appointment
- Request Appointment
- x Delete Patient

START VISIT



demo.openmrs.org

Digital, Social...obile in 2015 Health for All - Italia-ISTAT Apple Disney Sky Yahoo! Wikipedia Google Maps YouTube Notizie I più conosciuti IOS Applicat... Background

Posta in arrivo (185) - sara.marceglia@gmail.com - Gmail OpenMRS Demo | OpenMRS OpenMRS Electronic Medical Record

OpenMRS admin Inpatient Ward Logout

Home > Jessica Smith > Visits

Jessica Smith Female 40 year(s) (02.Jan.1977) Edit Show Contact Info Patient ID 100199

Given Family Name

Active Visit - 28.Mar.2017, 15:13:37 Outpatient

Visits Appointments Actions

28.Mar.2017 (active since 03:13 PM)

No diagnosis yet.

25.Dec.2016 - 25.Dec.2016

GI upset

30.Nov.2016 - 02.Dec.2016

Rheumatic fever without heart involvement

29.Sep.2016 - 29.Sep.2016

Sexually transmitted disease

27.Oct.2015 - 27.Oct.2015

Musculoskeletal pain

Active Visit Started at 28.Mar.2017, 15:13:37 Edit date | Delete visit

End Visit Visit Note Admit to Inpatient

Capture Vitals

CAPTURE VITALS



OpenMRS admin Inpatient Ward Logout

[Home](#) > [Jessica Smith](#) > **Vitals**

Jessica Smith Female 40 year(s) (02.Jan.1977) [Edit](#) [Show Contact Info](#) Patient ID 100199

Given Family Name

Active Visit - 28.Mar.2017, 15:13:37 Outpatient

[Exit Form](#)

Vitals	
Height (cm)	Height (cm) <input type="text"/> cm
Weight (kg)	
(Calculated) BMI	
Temperature (C)	
Pulse	
Respiratory rate	
Blood Pressure	
Blood oxygen saturation	

Confirm

VISIT REPORT



OpenMRS admin Inpatient Ward Logout

Home > [Jessica Smith](#) > **Edit: Visit Note**

Jessica Smith Female 40 year(s) (02.Jan.1977) [Edit](#) [Show Contact Info](#) Patient ID 100199

Given Family Name

Active Visit - 28.Mar.2017, 15:13:37 Outpatient

Visit Note

Provider	Location	Date
Jane Smith	Inpatient Ward	28/03/2017 <small>(dd/mm/yyyy)</small>

The diagnosis is chosen from the dictionary

Add presumed or confirmed diagnosis (required):
Choose primary diagnosis first, then secondary diagnoses

Clinical Note

Primary Diagnosis:
Tuberculosis, Tuberculosis BK+ A15.0 ×
 Primary Confirmed

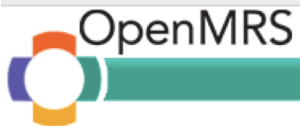
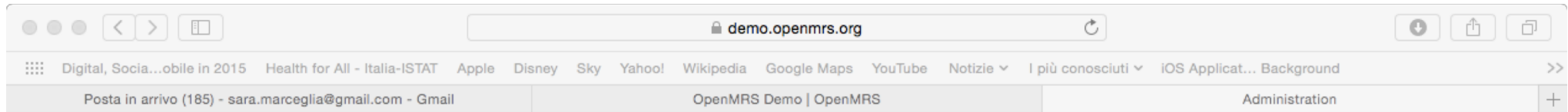
Secondary Diagnoses:
None

Cancel Save

ADMINISTRATION SECTION



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Currently logged in as Super User | [Log out](#) | [My Profile](#) | [Help](#)

[Home](#) | [Find/Create Patient](#) | [Dictionary](#) | [Cohort Builder](#) | [Reporting](#) | [Appointments](#) | [Administration](#)

Administration

Users

- [Manage Users](#)
- [Manage Roles](#)
- [Manage Privileges](#)
- [Manage Alerts](#)

Patients

- [Manage Patients](#)
- [Find Patients to Merge](#)
- [Manage Identifier Types](#)
- [Manage Patient Identifier Sources](#)
- [Auto-Generation Options](#)
- [View Log Entries](#)

Person

- [Manage Persons](#)
- [Manage Relationship Types](#)
- [Manage Person Attribute Types](#)

Visits

- [Manage Visit Types](#)
- [Manage Visit Attribute Types](#)
- [Configure Visits](#)

Encounters

- [Manage Encounters](#)
- [Manage Encounter Types](#)
- [Manage Encounter Roles](#)

Providers

- [Manage Providers](#)
- [Manage Provider Attribute Types](#)

Concepts

- [View Concept Dictionary](#)
- [Manage Concept Drugs](#)
- [Manage Proposed Concepts](#)
- [Manage Concept Classes](#)
- [Manage Concept Datatypes](#)
- [Manage Concept Sources](#)
- [Manage Concept Stop Word](#)
- [Manage Reference Terms](#)
- [Manage Concept Attribute Types](#)

Forms

- [Manage Forms](#)
- [Manage Fields](#)
- [Manage Field Types](#)
- [Merge Duplicate Fields](#)

HL7 Messages

- [Manage HL7 Sources](#)
- [Manage Queued Messages](#)
- [Manage Held Messages](#)
- [Manage HL7 Errors](#)
- [Manage HL7 Archives](#)
- [Migrate HL7 Archives](#)

Maintenance

- [Set Implementation Id](#)
- [System Information](#)
- [View Quick Reports](#)
- [Settings](#)
- [Advanced Settings](#)
- [View Server Log](#)

Modules

- [Manage Modules](#)
- [Module Properties](#)

Data Exchange Module

- [Export](#)
- [Import](#)

HTML Form Entry

- [Manage HTML Forms](#)
- [Preview HTML Form from File](#)

Reports

- [Run Reports](#)
- [Manage Reports](#)
- [Manage Report Macros](#)
- [Manage Data Exports](#)
- [Manage Row Per Obs Data Exports](#)
- [Manage Cohorts](#)
- [Manage Patient Searches](#)
- [Manage Report Elements](#)

REST Web Services

- [Settings](#)
- [Test](#)
- [API Documentation](#)

OpenMRS Atlas

- [Manage Atlas Marker](#)

Provider Management Module

- [Manage Provider Roles](#)

CONCEPT DICTIONARY



Concept Dictionary Maintenance

[Download the concept dictionary](#) in CSV format -- (dynamically creates a CSV file containing current dictionary terms/concepts)

[Add new Concept](#)

Find Concept(s)

Find a concept by typing in its name or Id: Include Retired Show Details

Viewing results for **'tuber'** - 1 page

Tuberculosis, Tuberculosis BK+
Primary Respiratory Tuberculosis, Confirmed Bacteriologically and Histologically

Showing 1 to 2 of 2 entries

Show entries

CREATE NEW CONCEPT



Creating New Concept

| [New](#)

Id

Locale [English](#) | [English \(United Kingdom\)](#) | [Spanish](#) | [French](#) | [Italian](#) | [Portuguese](#)

Fully Specified Name*

Synonyms

Search Terms

Short Name

Description

Class

Is Set

Datatype

Numeric

Absolute High	<input type="text"/>
Critical High	<input type="text"/>
Normal High	<input type="text"/>
Normal Low	<input type="text"/>
Critical Low	<input type="text"/>
Absolute Low	<input type="text"/>

QUESTION&ANSWER CONCEPTS



Concept saved successfully

Viewing Concept Diagnosis

[Previous](#) | [Edit](#) | [Stats](#) | [Next](#) | [New](#)

Id	163140
UUID	063290b6-fe5f-460e-83a8-3d3cacc99d2b
Locale	English English (United Kingdom) Spanish French Italian Portuguese
Fully Specified Name	Diagnosis
Synonyms	
Search Terms	
Short Name	
Description	
Class	Question
Datatype	Coded
Answers	Epilepsy (155) Tetanus (124957) Poliomyelitis (5258)
Mappings	□
Version	
Created By	Super User - 28 March 2017 16:09:02 UTC
Changed By	Super User - 28 March 2017 16:15:47 UTC

Resources

[Similar Concepts](#)
[Merriam Webster®](#)
[Google™](#)
[UpToDate®](#)
[Dictionary.com®](#)
[Lab Tests Online](#)
[Wikipedia](#)

Concept Usage

Obs for this concept: 0

CREATE A NEW FORM



- We want to create a form that contains:

CASE DETAILS

Age: _____

Gender:

- Male
- Female

Diagnosis: _____

Years of disease history: _____

Predominant side:

- Left
- Right

Date of implant: _____

Target structure: _____



CREATE THE CONCEPTS

- Age →
 - question with numeric answer
 - Equivalent to SNOMED CT “current chronological age “ code: 424144002
- Gender →
 - Question with answers “male” and “female”
 - First you have to create the concepts for the answers
- Diagnosis →
 - Question with either open answer or coded answer (set of diagnoses)
- Years of disease history →
 - question with numeric answer

EXAMPLE: CREATE THE “MALE” CONCEPT



OpenMRS Currently logged in as Super User | [Log out](#) | [My Profile](#) | [Help](#)

Home | Find/Create Patient | Dictionary | Cohort Builder | Reporting | Appointments | Administration

Creating New Concept

[New](#)

Id
Locale [English](#) | [English \(United Kingdom\)](#) | [Spanish](#) | [French](#) | [Italian](#) | [Portuguese](#)

Fully Specified Name* Insert the name of the concept (preferred term)

Synonyms Add synonyms and search terms to facilitate the navigation

Search Terms

Short Name

Description Insert the definition (from UMLS)

Class Insert the class (from UMLS or SNOMED)

Is Set

Datatype

Numeric

Absolute High	<input type="text"/>
Critical High	<input type="text"/>
Normal High	<input type="text"/>
Normal Low	<input type="text"/>
Critical Low	<input type="text"/>
Absolute Low	<input type="text"/>

(range values are inclusive)

Units

Allow Decimal?

Display Precision

Data type specifications

NAVIGATE UMLS or SNOMED



NIH U.S. National Library of Medicine

Databases Find, Read, Learn Explore NLM Research at NLM NLM for You

Search

NLM Customer Support

Unified Medical Language System® (UMLS®)

UMLS Quick Start Guide | FAQs | Customer Support

Home > Biomedical Research & Informatics > UMLS

Unified Medical Language System (UMLS)

The UMLS integrates and distributes key terminology, classification and coding standards, and associated resources to promote creation of more effective and interoperable biomedical information systems and services, including electronic health records. [More information...](#)

UMLS News RSS Feed

Access the UMLS

Sign up for a license, download files, and browse UMLS data.

Sign Up Downloads Browser Knowledge Sources API

Training and Documentation

View release information and learn how to use the UMLS.

Tutorials Technical Documentation Local Installation

UMLS Community

Learn about UMLS use across diverse organizations.

Applications Listserv User Contributions

Related Terminology Resources

Read more about the UMLS and other NLM products.

Vocabularies & Mappings Publications Health Information Technology

NAVIGATE UMLS or SNOMED



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Welcome back, saramarceglia

Unified Medical Language System®

UMLS Terminology Services SNOMED CT Browser

UTS Home Application: **SNOMED CT** Resources Downloads Documentation UMLS Home

Search Tree Recent Searches

SNOMED CT Version: 2018_09_01

Term ConceptID DescriptionID

male

Active concepts only:

Restrict results to: --None--

Search Results (591)

[: 1 - 25 : >>]

- [10052007](#) Male structure (body structure)
- [248153007](#) Male (finding)
- [32951002](#) Feminized male (finding)
- [66259004](#) Male hematocele (disorder)
- [399141000](#) Male sterilization (procedure)
- [145071000119106](#) Male cystocele (disorder)
- [126895004](#) Neoplasm of male genital organ (disorder)
- [22523008](#) Vasectomy (procedure)
- [198068005](#) Male genital organ edema (disorder)
- [95591004](#) Leukoplakia of male genital organs
- [42988002](#) Incision of hematoma of male perineum
- [162752009](#) On examination - feminized male (finding)
- [283974005](#) Hematoma of male perineum (disorder)

Report View

Concept: [248153007] Male

UMLS information
CUI: [\[C0086582\]](#) Males
Semantic Types: [Organism Attribute \[T032\]](#)

Concept Status	Definition Status
Active	Primitive

Descriptions (2)

Id	Description	Type	Status
638418015	Male (finding)	Fully specified name	Active
370461016	Male	Synonym	Active

Parents (1)

Finding related to biological sex [\[429019009\]](#)

Children (1)

Baby male [\[169838000\]](#)

Relationships from *this* concept (5)

- Male | [Interprets](#) | [Gender](#) (Inactive Relationship)
- Male | [Interprets](#) | [General clinical state](#)
- Male | [Interprets](#) | [General clinical state](#) (Inactive Relationship)
- Male | [Is a](#) | [Finding related to biological sex](#)
- Male | [Is a](#) | [Gender finding](#) (Inactive Relationship)

Copyright | Privacy | Accessibility | Freedom of Information Act | National Institutes of Health | Health & Human Services

ADD MAPPING



If the mapping term already exists, you can select it, otherwise you have to create a new term

Display Precision

Mappings ?

Relationship	Source	Code	Name	
SAME-AS <input type="button" value="v"/>	Search all sources <input type="button" value="v"/>	<input type="text" value="Enter Code Or Name"/>	<input type="text"/>	<input type="button" value="Remove"/>

Version ?

New Reference Term Form

Reference Term Details

Code*

Name

Source*

EXAMPLE: CREATE THE “MALE” CONCEPT



Concept saved successfully

Viewing Concept male

[Previous](#) | [Edit](#) | [Stats](#) | [Next](#) | [New](#)

Id 165096
UUID 16c5654b-f260-4e49-a6c1-ee2da38346a4
Locale [English](#) | [English \(United Kingdom\)](#) | [Spanish](#) | [French](#) | [Italian](#) | [Portuguese](#)
Fully Specified Name male
Synonyms man
male gender
Search Terms
Short Name
Description A person who belongs to the sex that normally produces sperm. The term is used to indicate biological sex distinctions, cultural gender role distinctions, or both.
Class Finding
Datatype Text
Mappings

Relationship	Source	Code	Name
SAME-AS	SNOMED CT	248153007	male

Version
Created By Super User – 12 December 2018 13:02:52 CET

Resources

[Similar Concepts](#)
[Merriam Webster@](#)
[Google™](#)
[UpToDate@](#)
[Dictionary.com@](#)
[Lab Tests Online](#)
[Wikipedia](#)

Concept Usage

Obs for this concept: 0

CREATE THE NEW FORM



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[Home](#) | [Find/Create Patient](#) | [Dictionary](#) | [Cohort Builder](#) | [Reporting](#) | [Appointments](#) | [Administration](#)

[Admin](#) | [Manage HTML Forms](#) | [Preview HTML Form from File](#)

Create HTML Form

Name


Description

Version

Encounter Type

EDIT THE NEW FORM



OpenMRS

[Home](#) | [Find/Create Patient](#) | [Dictionary](#) | [Cohort Builder](#) | [Reports](#)

Saved TestForm-181212 0.0

[Admin](#) | [Manage HTML Forms](#) | [Preview HTML Form from File](#)

Edit HTML Form

[Show/Hide extra fields](#)

Id 6

Name

Published

Retired

Form Schema: [View](#)

HTML:

```
<htmlform>
  <!-- Autogenerated example form (template from 01-Nov-2010 -->
  <macros>
    paperFormId = (Fill this in)
    headerColor = #009d8e
    fontOnHeaderColor = white
  </macros>

  <style>
    .section {
      border: 1px solid $headerColor;
      padding: 2px;
      text-align: left;
      margin-bottom: 1em;
    }
    .sectionHeader {
      background-color: $headerColor;
      color: $fontOnHeaderColor;
      display: block;
      padding: 2px;
    }
  </style>
  </htmlform>
```



EXAMPLE CODE

Simple examples to copy-and-paste. Full reference at <http://wiki.openmrs.org/x/kg8z>

SECTION

```
<section headerLabel="\#. Title">  
    Content  
</section>
```

NUMERIC OBSERVATION

```
<obs conceptId="id-of-numeric-concept" labelText="Label before"/>
```

DATE OBSERVATION

```
<obs conceptId="id-of-date-concept" labelText="Label before"/>
```

CODED OBSERVATION

(as a dropdown)

```
<obs conceptId="id-of-coded-concept" labelText="Label before"/>
```

(as radio buttons)

```
<obs conceptId="id-of-coded-concept" labelText="Label before" style="radio"/>
```

(as an autocomplete)

```
<obs conceptId="id-of-coded-concept" labelText="Label before" style="autocomplete" answerClasses="Diagnosis"/>
```

(as a checkbox for a specific answer)

```
<obs conceptId="id-of-coded-concept" labelText="Label before" answerConceptId="id-of-answer-concept"
```

```
answerLabel="label for answer"/>
```

(as a dropdown with specific choices)

```
<obs conceptId="id-of-coded-concept" labelText="Label before" answerConceptIds="concept-id-1,concept-id-2,concept-  
3" answerLabels="Label 1,Label 2, Label 3"/>
```

CREATE THE CODE



Working on the pre-filled form, add the information you need to collect



```
<tr>
  <td>Gender:</td>
  <td>
    <obs conceptId="165099" labelText="Select:"</td>
</tr>
<tr>
  <td>Age:</td>
  <td>
    <obs conceptId="165097" labelText="Anni:"/>
  </td>
</tr>
```

PREVIEW THE NEW FORM



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Preview

TestForm-181212 (v0.0)

Paper Form ID: (Fill this in)

1. Encounter Details

Date: (dd/mm/yyyy)

Location:

Provider:

2. Clinical data

Name: [Demo The Person](#)

OpenMRS ID:

Old Identification Number: [TestingOld Identification Number123](#)

OpenMRS Identification Number:

Age: Anni:

Gender: Select:



ESERCIZIO

Dato il seguente stralcio di lettera di dimissione:

- 1- creare una form strutturata e codificata adatta a rappresentare tutte le informazioni in esso contenute
- 2- creare i concetti necessari alla codifica
- 3- creare la form HTML relativa

Il sig Mario Rossi, 63 anni, è stato diagnosticato con malattia di Parkinson nel 2001, con un'insorgenza dei sintomi sul lato destro.

Attualmente è trattato con levodopa 100 mg/5 volte die. È stato sottoposto a intervento di stimolazione cerebrale profonda del nucleo subtalamico in data 11/12/2018. Non presenta complicanze di tipo emorragico