



welcome

CODING A BETTER WORLD

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FrOSCon 2016

Agenda

Humanitarian software

OpenMRS revisited

Enter Bahmni

Live demo

Architecture and tech stack

KPIs

How to contribute



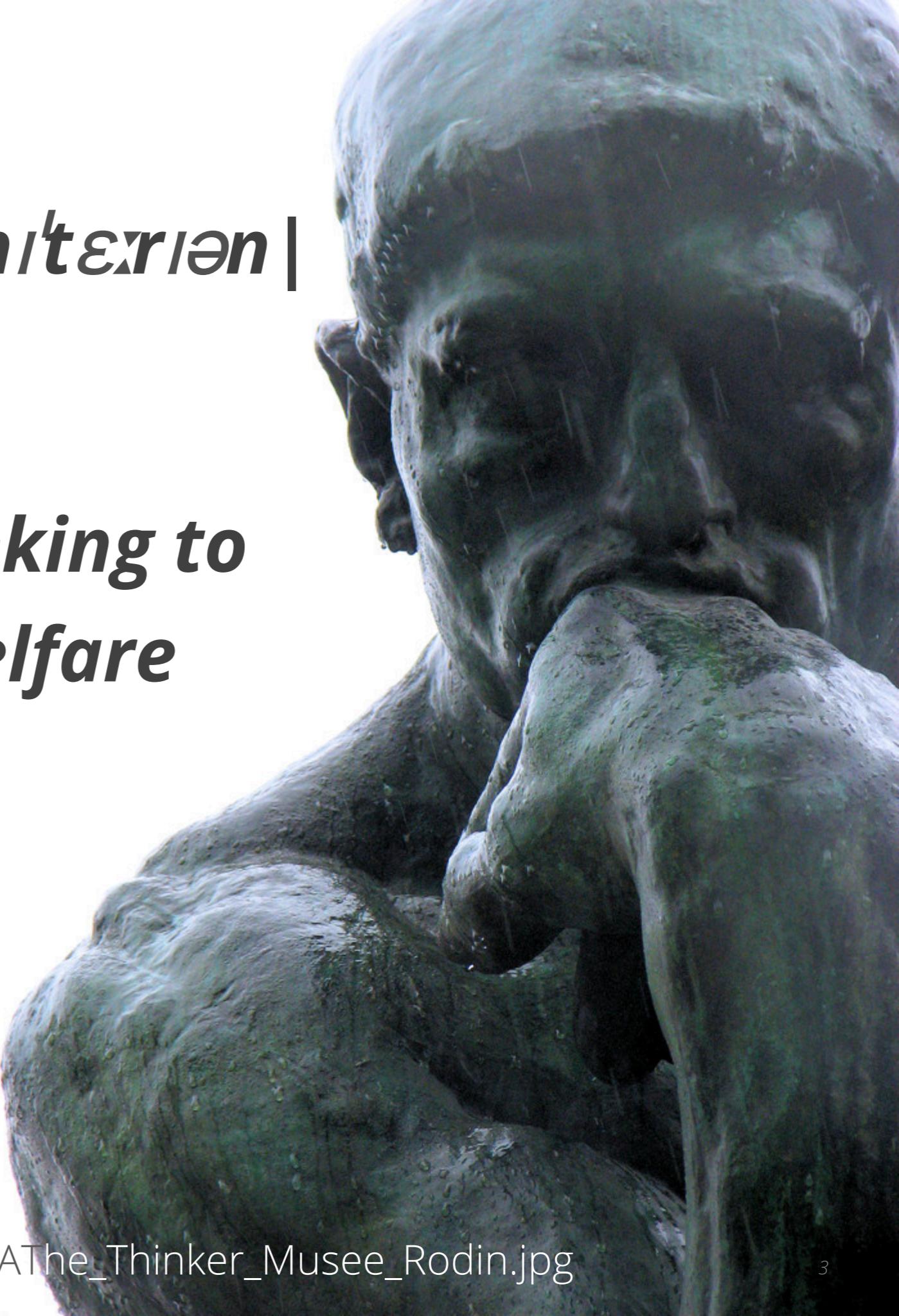
humanitarian | *hju'maɪtəriən* |

adjective

*concerned with or seeking to
promote human welfare*

Source: Apple Dictionary Version 2.2.1

https://commons.wikimedia.org/wiki/File%3AThe_Thinker_Musee_Rodin.jpg



*As a technologist
I want to use my skills and
expertise
To improve human welfare*





OpenMRS revisited

Medical record system

Replaces paper based records

Capture and analyse patient data

Data model + web frontend + modules

History of OpenMRS

Founded in Africa in 2004 by two NGOs

Open source + community

Mozilla Public License, v. 2.0

plus a health disclaimer

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Bahmni

Next generation hospital system

Medical records - OpenMRS

Inventory, billing accounting - OpenERP

Laboratory management - OpenELIS

Image archive - Oviyam and dcm4che

History of Bahmni

JSS provides health care in rural areas in central India

Need for a Hospital Management and Information System (HMIS)

Open source + community

Affero General Public License



ThoughtWorks and Bahmni

A photograph showing a person from the side, wearing a plaid shirt, standing in front of a wall that appears to be covered in a dense growth of green plants or moss. The lighting is somewhat dim, suggesting an indoor or shaded outdoor environment.

**Founded and sponsored but not owned
by ThoughtWorks**

Impact over profit

Scale by creating a community

**Strict open source license to prevent
commercialisation**

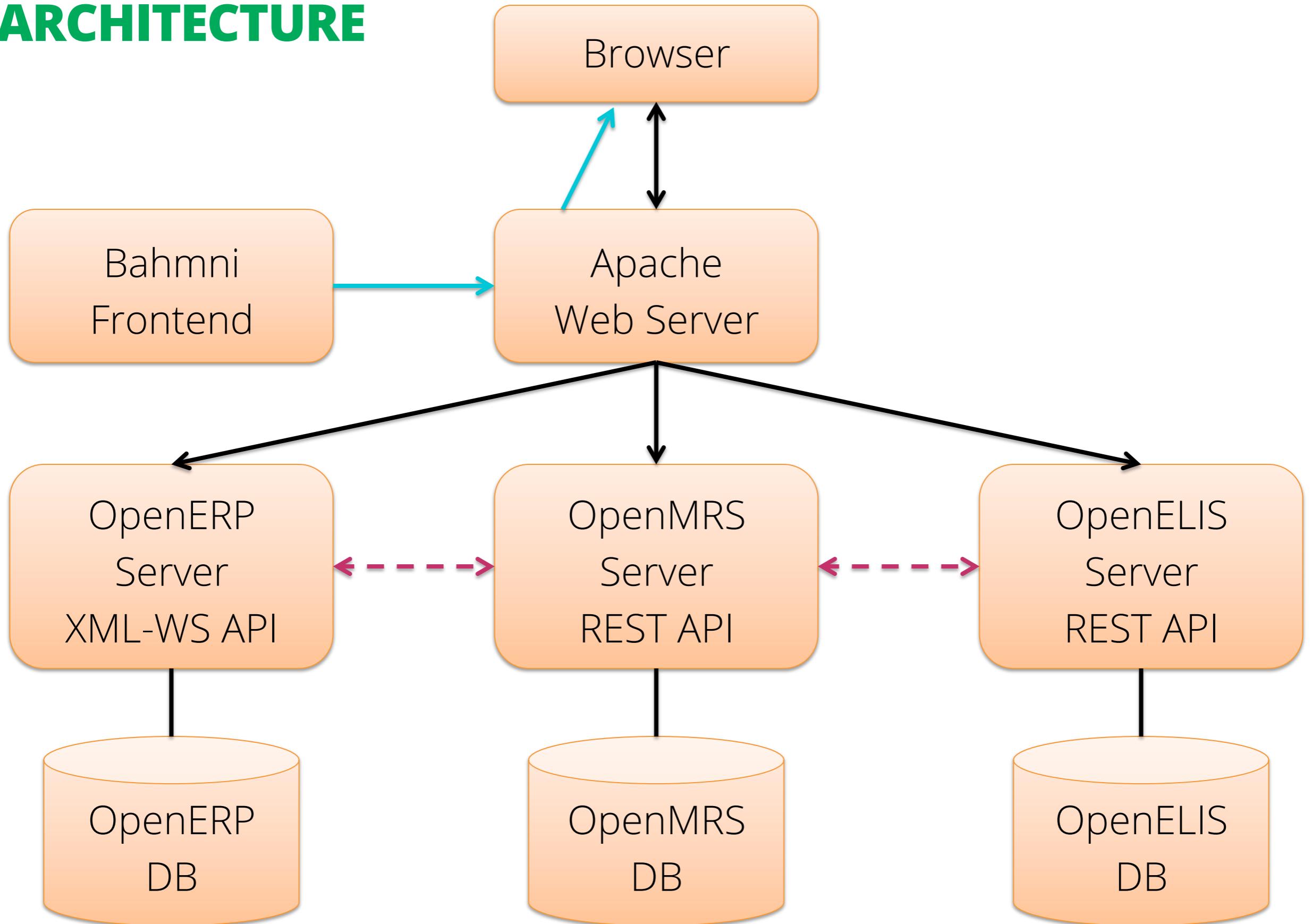
[Help](#)[Share](#)[View](#)[Download](#)[Sign In](#)

Live demo

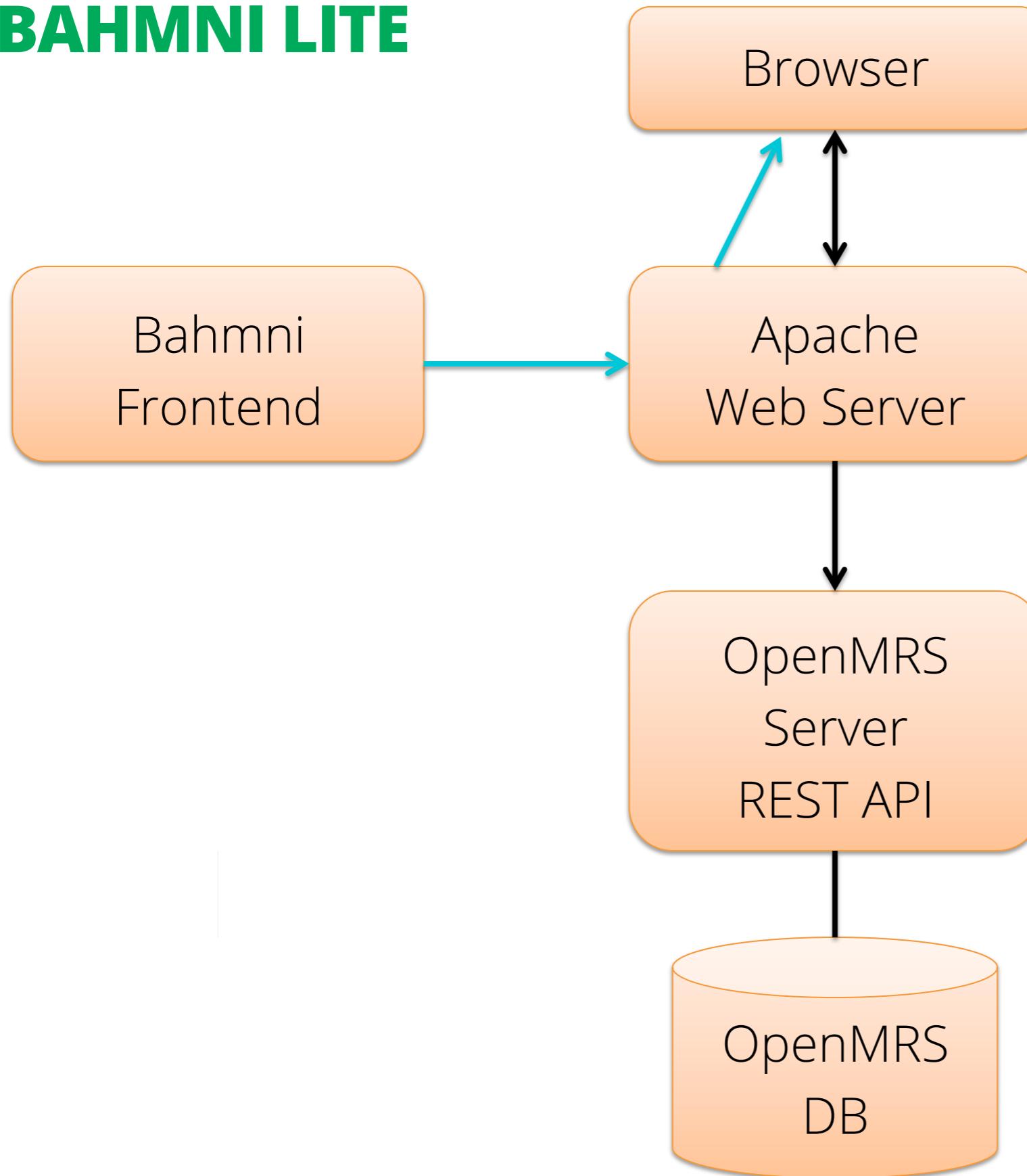


https://commons.wikimedia.org/wiki/File%3ABlacksmith_at_work02.jpg

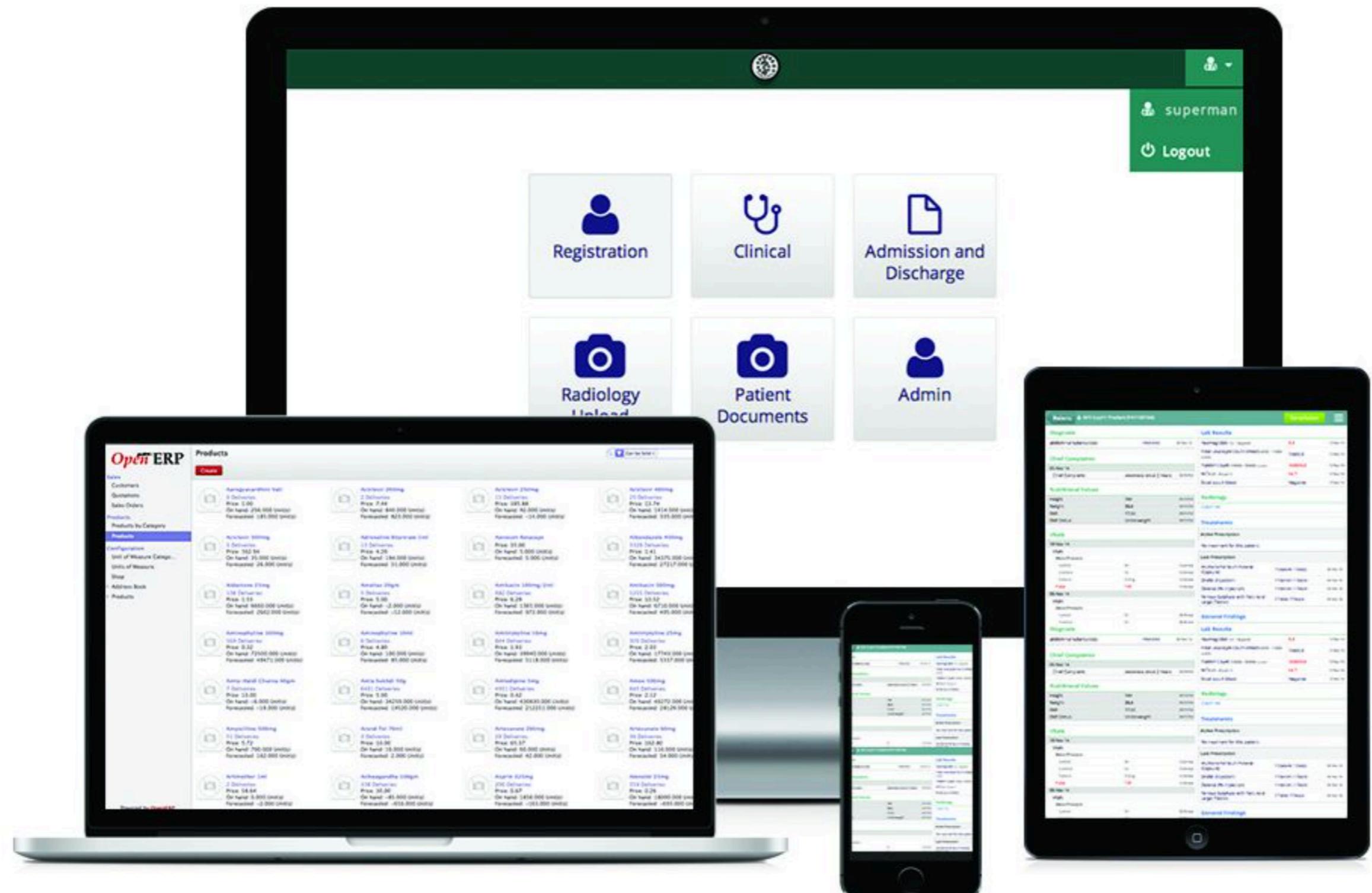
ARCHITECTURE



BAHMNI LITE



BUILT FOR DIFFERENT DEVICES



KPIs from JSS

Daily patient caseload – 120/150 to 180/200

Lab work finished – 6pm to 4:30pm

Electrophoresis machine runs – 1 to 3 times a week

Find patient history – a few hours to five minutes

How to contribute

A photograph of a man with dark hair and a beard, wearing a grey t-shirt and headphones, sitting at a desk and working on a computer. He is looking down at the screen, which displays a terminal window with code. The background shows a wall with a power outlet and some papers on a shelf.

Join the community

Work on tickets

Participate in code jams

Organise code jams

Spread the word

Not only devs needed

Resources

<http://openmrs.org/>

<https://github.com/openmrs>

<https://issues.openmrs.org>

<http://www.bahmni.org/>

<https://github.com/Bahmni>

<https://trello.com/b/ZQXj4fri/open-community-work>



THANK YOU

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*Photos of JSS hospital by
amira.pettus@thoughtworks.com*

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