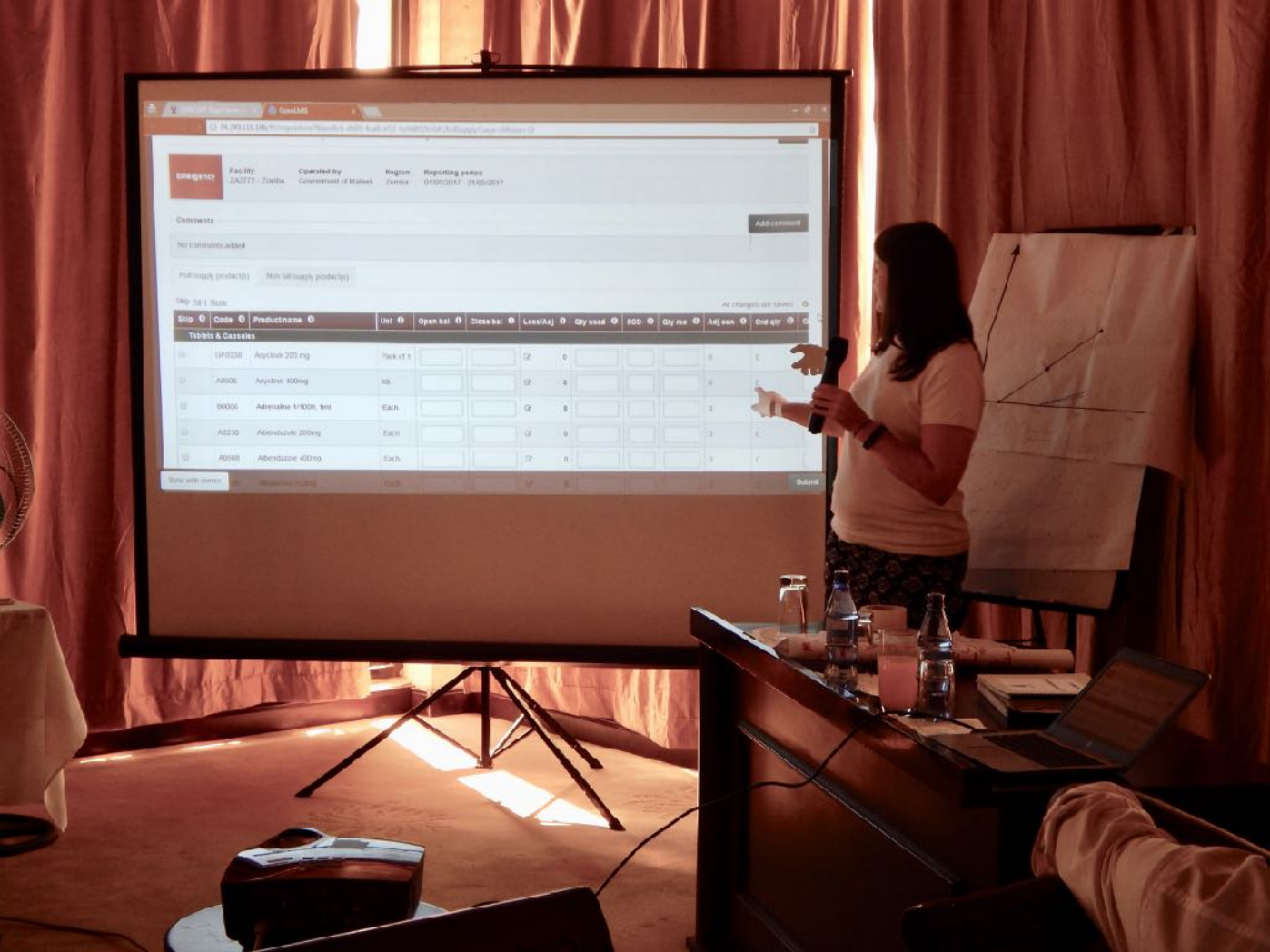
LESSONS LEARNED

OpenLMIS Malawi UAT
May 2017

Scenario 9 G2
* Instructions had approved quantity which was not applicable for malaria program also in Sc 10
Scenario 10
* The reject form status is "initiated" not "submitted" + not yet stated
* Rejection comment not visible
mark also present in the offline column → also Scenario 9.


Facility
Operated by
Region
Reporting period
Comments
Add comment
No comments added
Tablets & Capsules

SCENARIO 9: APPROVE A SINGLE (EMERGENCY) LMIS FOR

9 Steps

PDF Complete

REPUBLIC OF MALAWI
MINISTRY OF HEALTH
Essential Medicines LMIS Report

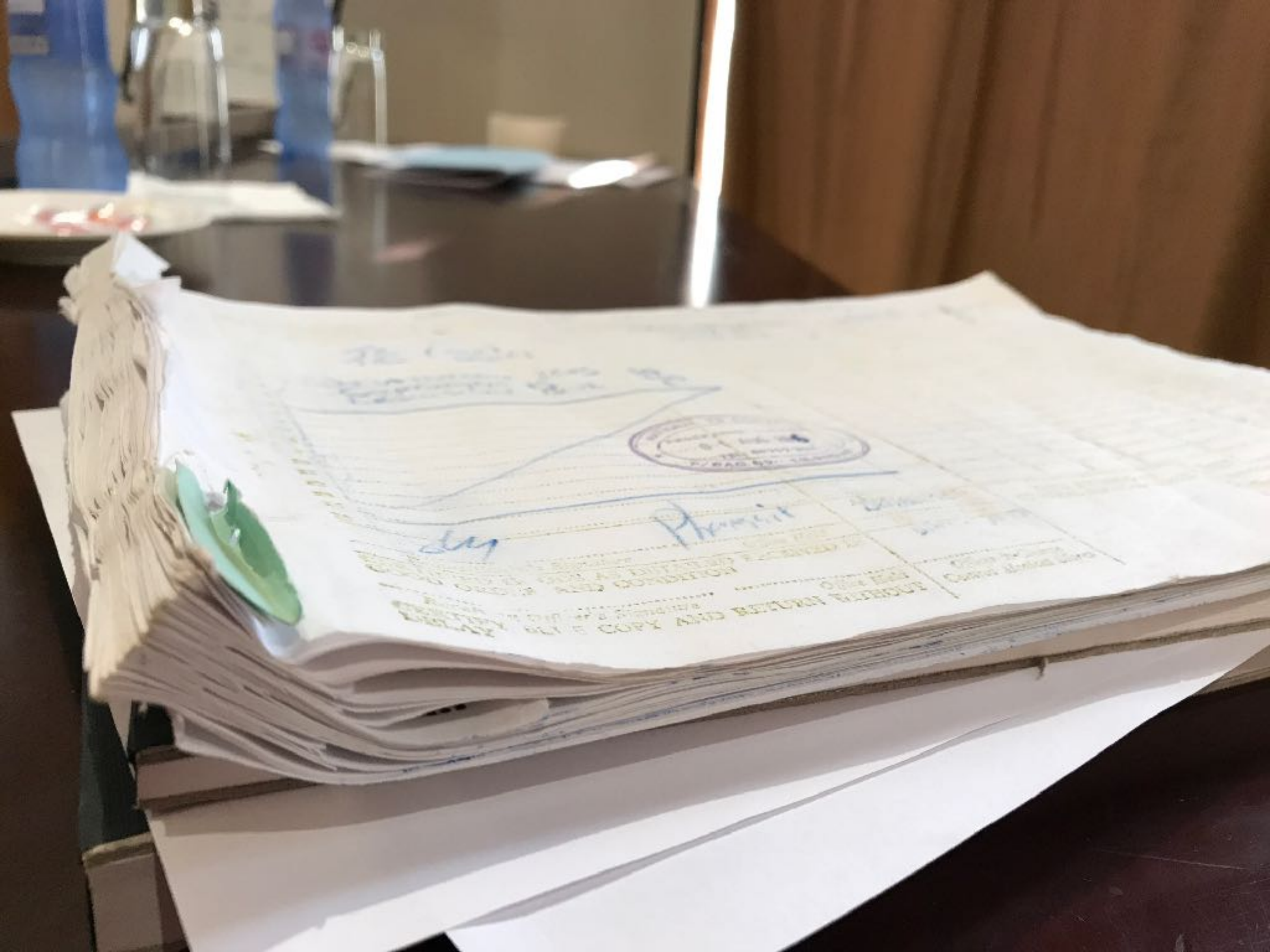
Facility Name: ST PETER'S

District: LIKOMA

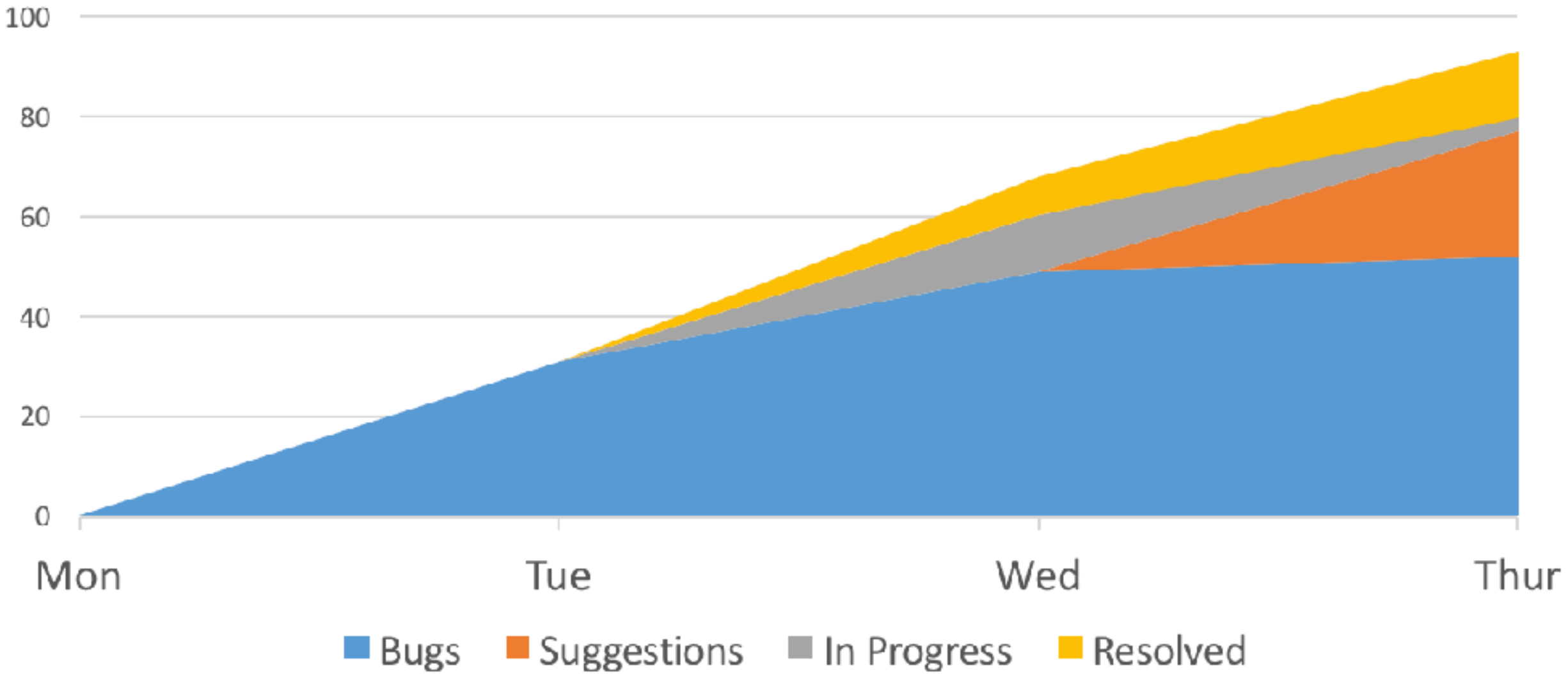
Month: APRIL
Year: 2017

Item No.	Item	Unit of Issue	Opening Balance (Stock on Hand)	Receipts	(+ve) Adjustments	(-ve) Adjustments	Closing Stock on Hand	Monthly Consumption	Quantity Required
(A) TABLETS/CAPSULES									
GF0238	Acyclovir 200 mg	Tablet	0	0	0	0	0	425	0
A0008	Acyclovir 400mg 2000	Tablet	0	0	0	0	0	425	0
A0230	Albendazole 200mg	Tablet	92,000	0	0	0	0	0	0
A0506	Albendazole 400mg	Tablet	0	0	0	0	0	60	0
A0026	Allopurinol 100mg	Tablet	1000	0	0	0	0	0	0
TBD	Amlodipine 5mg	Tablet	0	0	0	0	0	60	0
TBD	Amlodipine 10mg	Tablet	0	0	0	0	0	60	0
A0028	Aminophylline 100mg	Tablet	17 000	0	0	0	5000	0	0
A0034	Amitriptyline 25mg	Tablet	3300	0	0	0	200	0	0
A0039	Amoxycillin 250mg 60000	Tabs/Caps	3000	0	0	2000	2400	0	0
TBD	Amoxycillin 250mg Dispersible tablets	Tablet	4300	0	0	100	100	60	0
GF0243	Amoxycillin w/ Clavulanic Acid. 500mg/125mg	Tabs/Caps	0	0	0	0	0	0	0
A0046	Aspirin 300mg	Tablet	75000	0	0	100	3000	240	0
TBD	Atenolol 50mg	Tablet	0	0	0	0	0	0	0
TBD	Atenolol 100mg	Tablet	3000	0	0	0	0	60	0
TBD	Azithromycin 500mg	tablet	0	0	0	0	0	0	0
TBD	Azithromycin 250mg	tablet	3048	0	0	0	0	240	0
A0067	Benzhexol 5mg 1000	Tablet	0	0	0	0	0	0	0
A0069	Bisacodyl 5mg	Tablet	8000	0	0	0	0	0	0
TBD	Captopril 25mg	Tablet	5000	0					

Page 1 of 15



Issues Found



- **different supply lines and fulfillment cycles by program**
  EM comes from CMST 3 regional warehouses (north, central, south) using SAGE ERP; programs have 1-month and 3-month pull and push cycles; using LMIS Forms as reporting tool not ordering

- **different approval process by program**
  EM goes thru MOH district process with budget rationing monthly; 1-step and 2-step; some go to program managers

- **30 districts**
  do data entry monthly of all 5 programs for all facilities

Health Facilities ~**800**

keep their paper "LMIS Forms":
5 monthly programs
(Essential Meds, HIV, TB, Family Planning, Malaria)

LESSONS

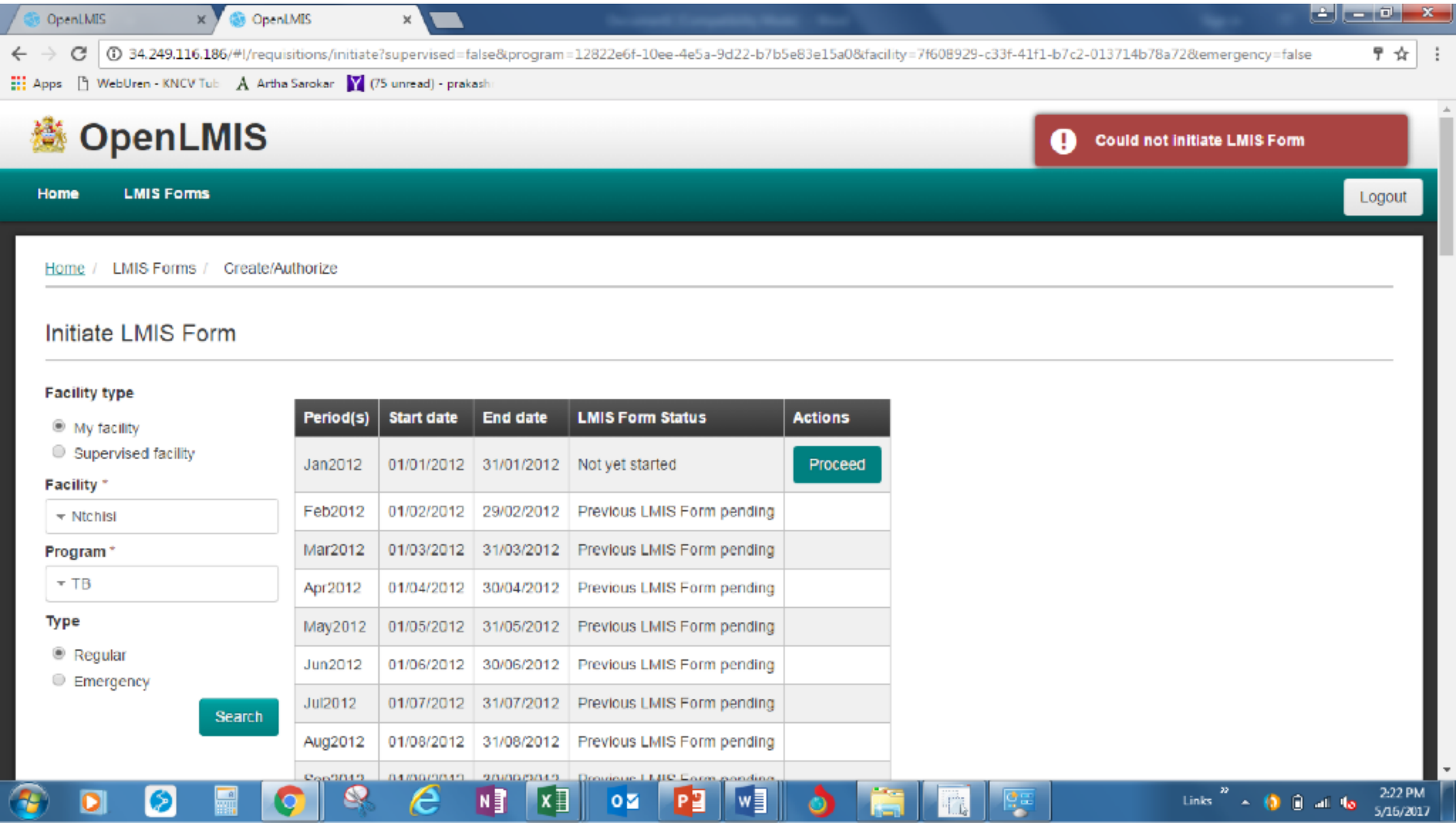
1. Buggy

2. Brittle

3. Slow

4. Hard to use

1. BUGGY



Cannot initiate requisition MW-177

OpenLMIS

Failed to synchronize LMIS Form!

Home LMIS Forms Logout

Home / LMIS Forms / View LMIS Form

LMIS Form for TB (Health Centre)

Regular	Facility	Operated by	Region	Reporting period
	KU1011 - Mtunthama	Government of Malawi	Kasungu	01/01/2012 - 31/01/2012

Comments

Add comment

No comments added

Elements Console Sources Network Performance Memory Application Security Audits

97 2

View: Preserve log Disable cache Offline No throttling

Filter Regex Hide data URLs All XHR JS CSS Img Media Font Doc WS Manifest Other

20000 ms 40000 ms 60000 ms 80000 ms 100000 ms 120000 ms 140000 ms 160000 ms 180000 ms 200000 ms 220000 ms 240000 ms 260000 ms

Name

1b163c48-c0b1-4db5-8b1c-9c...

favicon.ico?_=1495041891720

favicon.ico?_=1495041922524

favicon.ico?_=1495041952867

collect?v=1&_v=j54&a=13097...

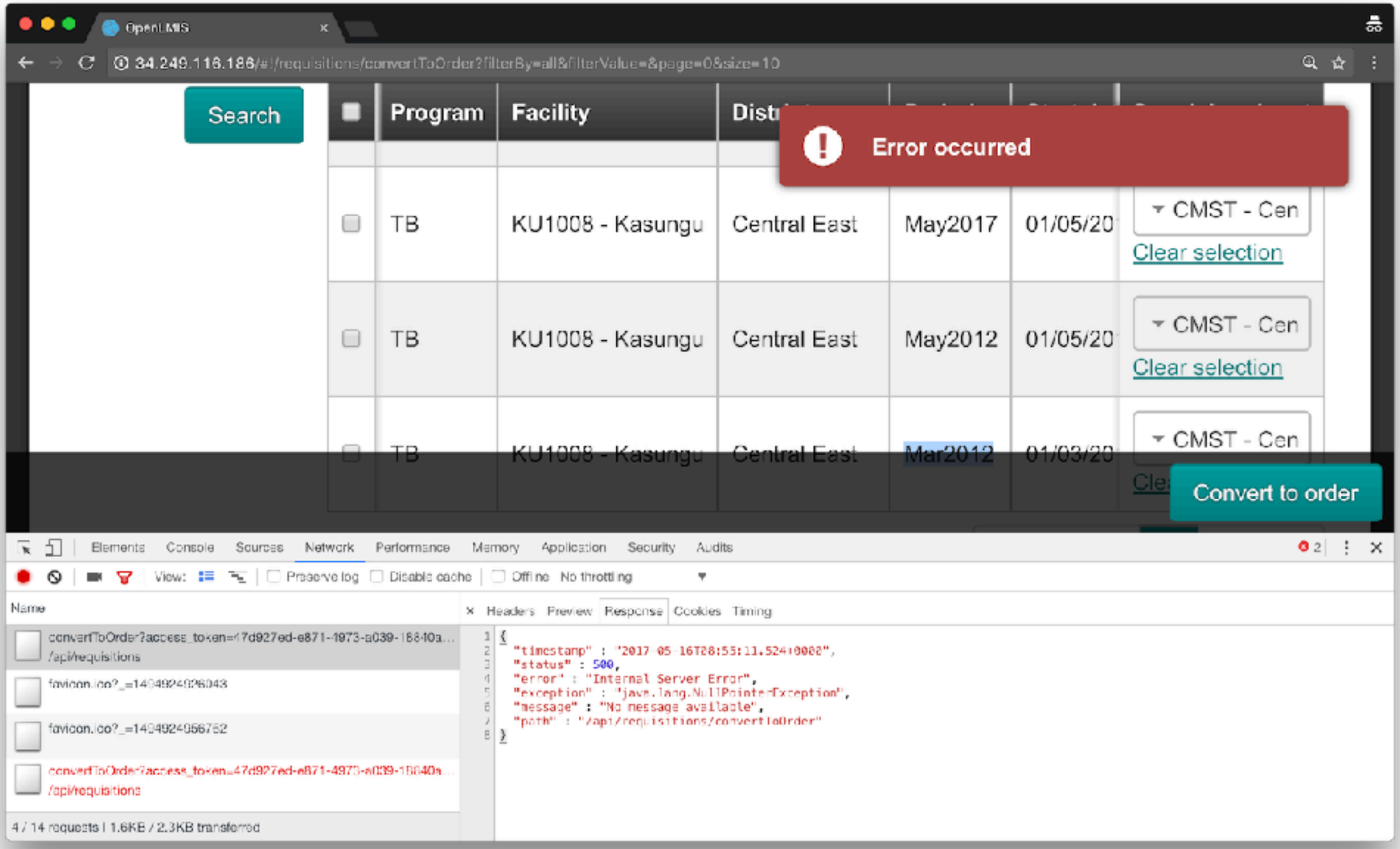
collect?v=1&_v=j54&a=13097...

1b163c48-c0b1-4db5-8b1c-9c...

Headers Preview Response Cookies Timing

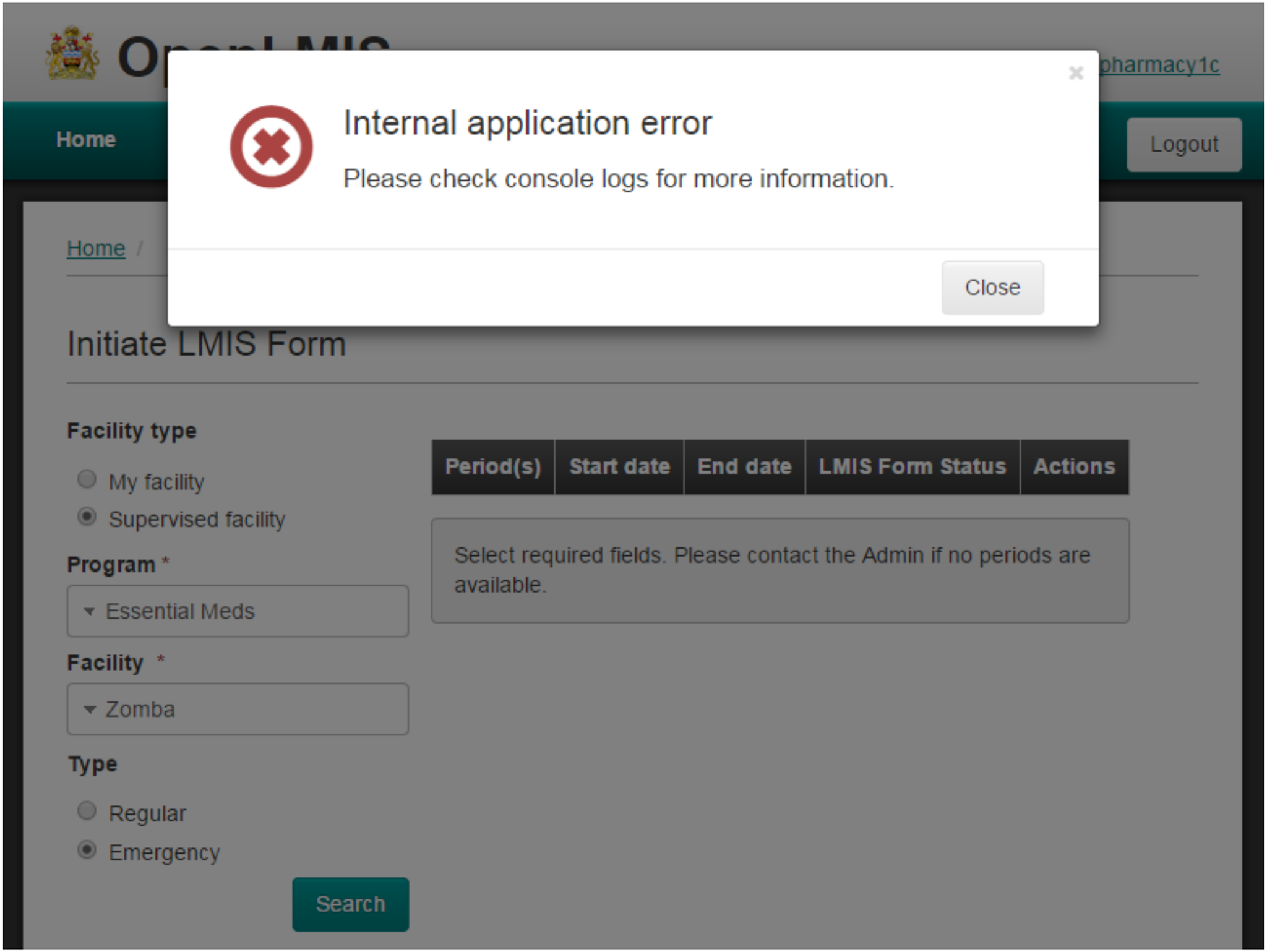
{timestamp: "2017-05-17T17:26:13.566+0000", status: 100, error: "Bad Request",…}
error: "Bad Request"
exception: "org.springframework.http.converter.HttpMessageNotReadableException"
message: "Could not read document: Can not deserialize instance of org.openlmis.utils.PageImplRepresentation out of START_ARRAY token\n at [Source
path: "/api/requisitions/1b163c18-c0b1-4db5-8b1c-9c76806a0774"
status: 400
timestamp: "2017-05-17T17:26:13.566+0000"

Cannot submit or authorize MW-225



Cannot convert to order MW-174

2. BRITTLE



Error on search for Emergency MW-212

(View Orders would not appear on the menu unless you also gave the user all 3 Requisition rights)

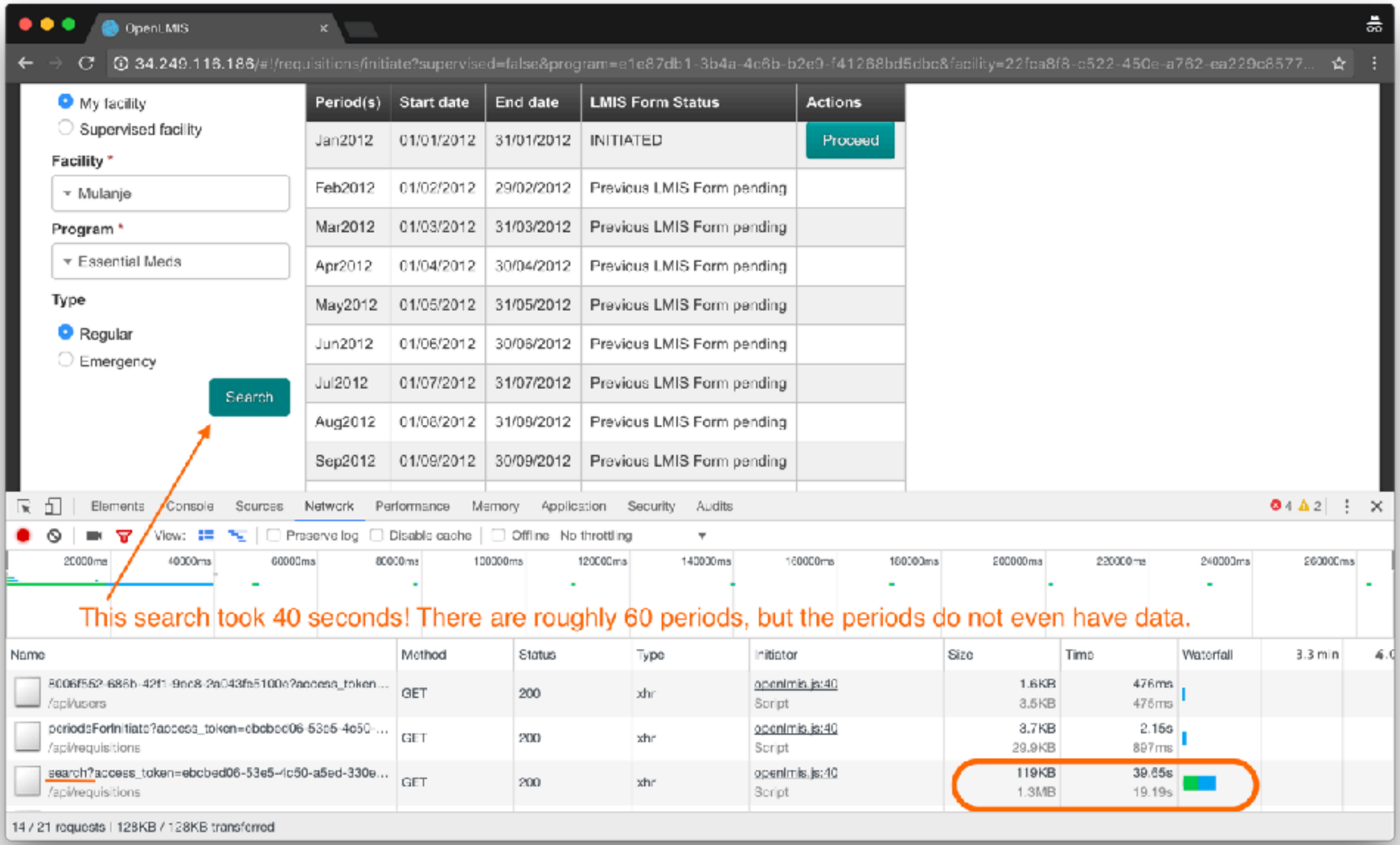
View Orders rights do not work MW-176

(e.g., Facility users from North Region were only shown the Southern Region warehouse and vice versa)

Wrong warehouses for convert to order

2. BRITTLE

3. SLOW



Requisition period search slow MW-164

beta.speedtest.net/result/0299999273

SPEEDTEST BETA

Go to the Legacy site (Requires Flash)

Results History Settings Help Login

Need Biz Internet in PH?
We supply Fiber to Businesses.
We operate in The Philippines and our Support is World Class!

Telekom Networks Malawi
Lilongwe
CHANGE SERVER

AGAIN

Skyband
41.75.124.1

PING 74 ms
DOWNLOAD 1.55 Mbps
UPLOAD 0.19 Mbps
SHARE THIS RESULT

On hotel wifi from Skyband

Describe your overall satisfaction with your current internet service

SUBMIT

Your internet speed is not the only reason for a slow Mac

Scan for issues and speed up your Mac

START NOW

SLOW MAC PERFORMANCE?
Run a test to identify issues and speed up your Mac

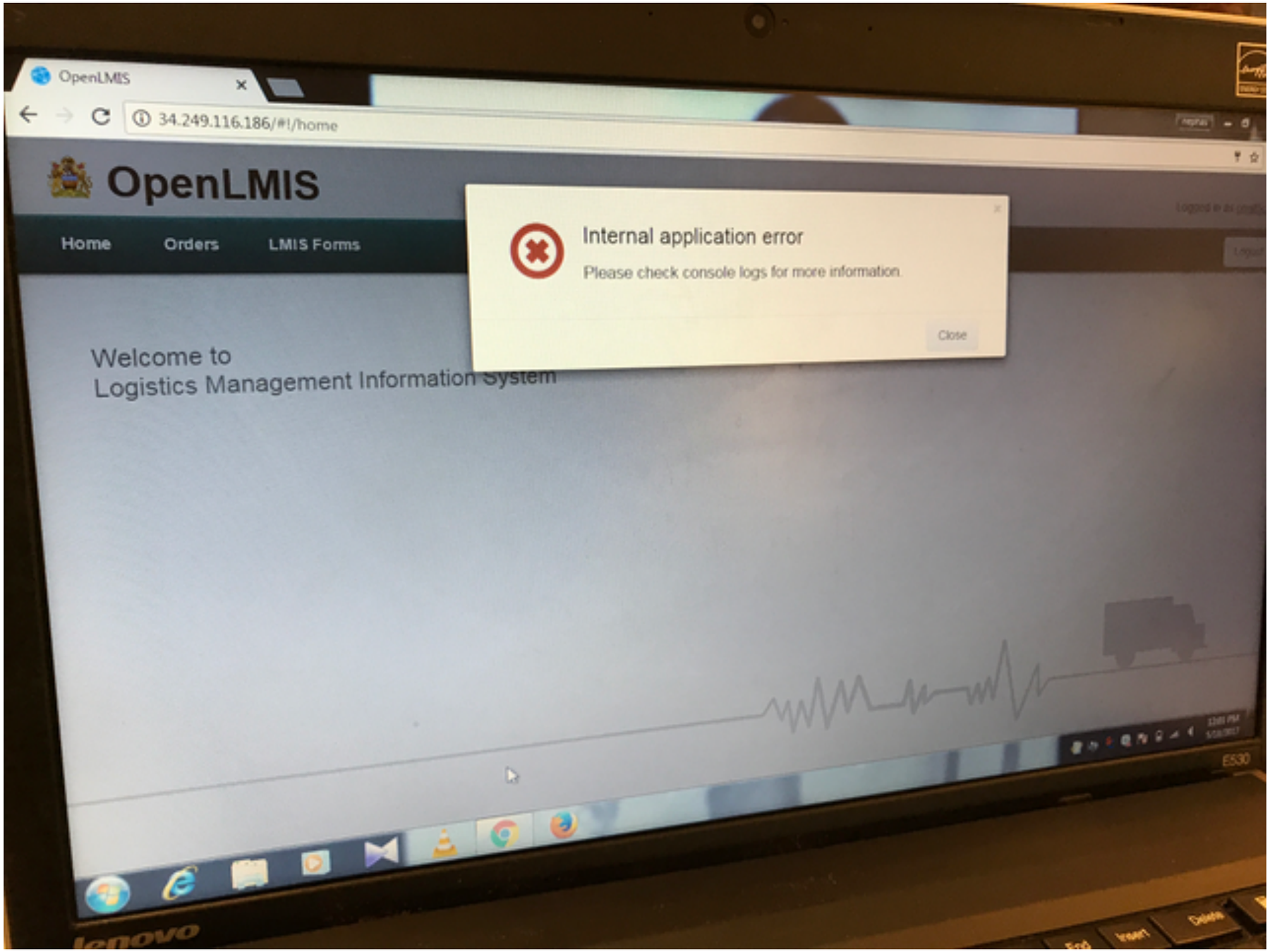
START NOW

Try Speedtest® for Mac
Free, quick, easy to use
Download on the App Store
by OOKLA

Try Speedtest for macOS
Free, quick, easy to use
Download on the Mac App Store
by OOKLA

3. SLOW

- MW-164 Requisition period search slow
- MW-165 Requisition initiate slow
- MW-166 Requisition submit slow
- MW-167 Requisition authorize slow
- MW-171 Requisitions > View search is slow
- MW-232 Convert to Order search is slow



Convert to Order search is slow MW-232

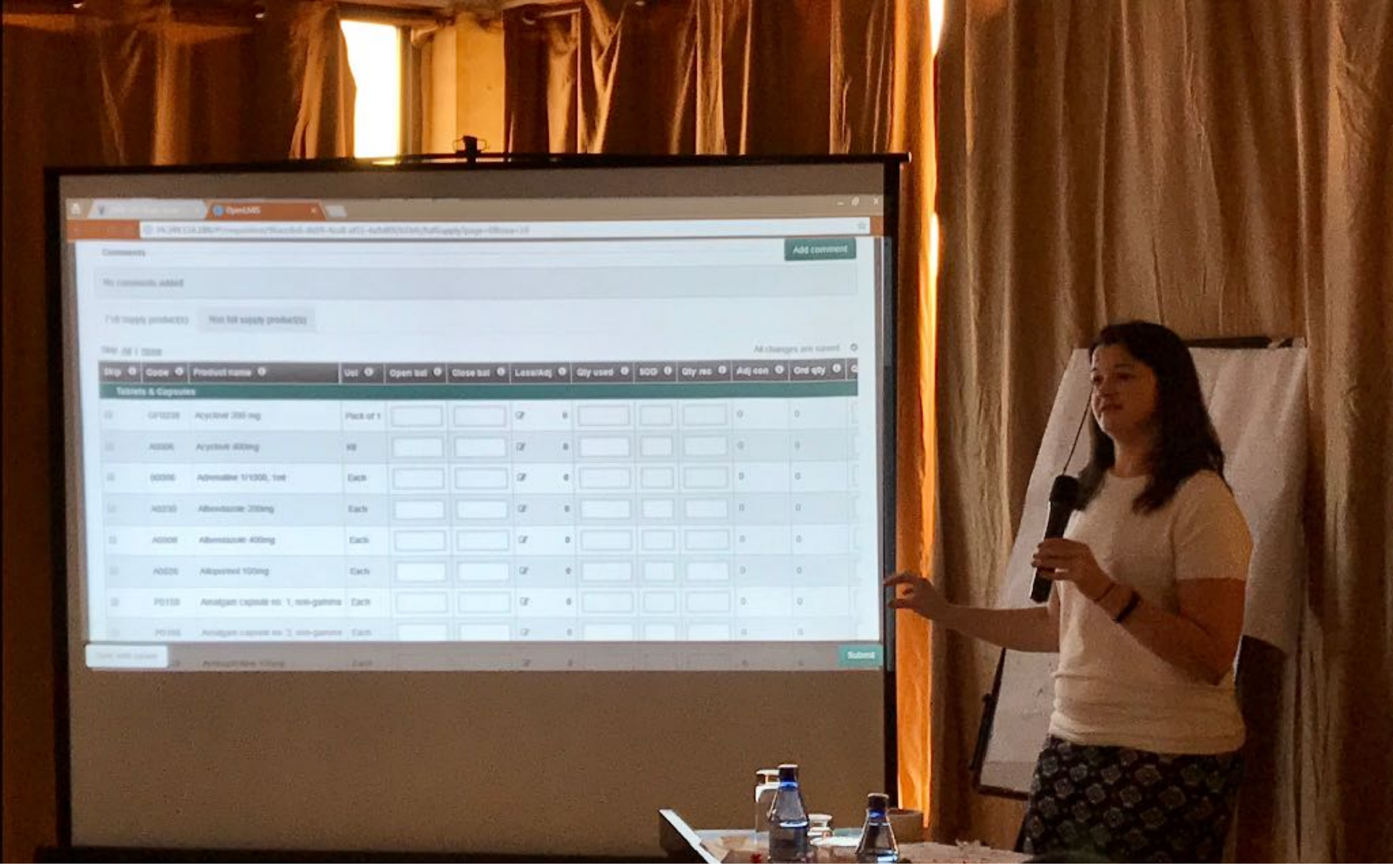
4. HARD TO USE

(All Requisition screens have no status indicator.
Frequent confusion about why/when different buttons at bottom.)

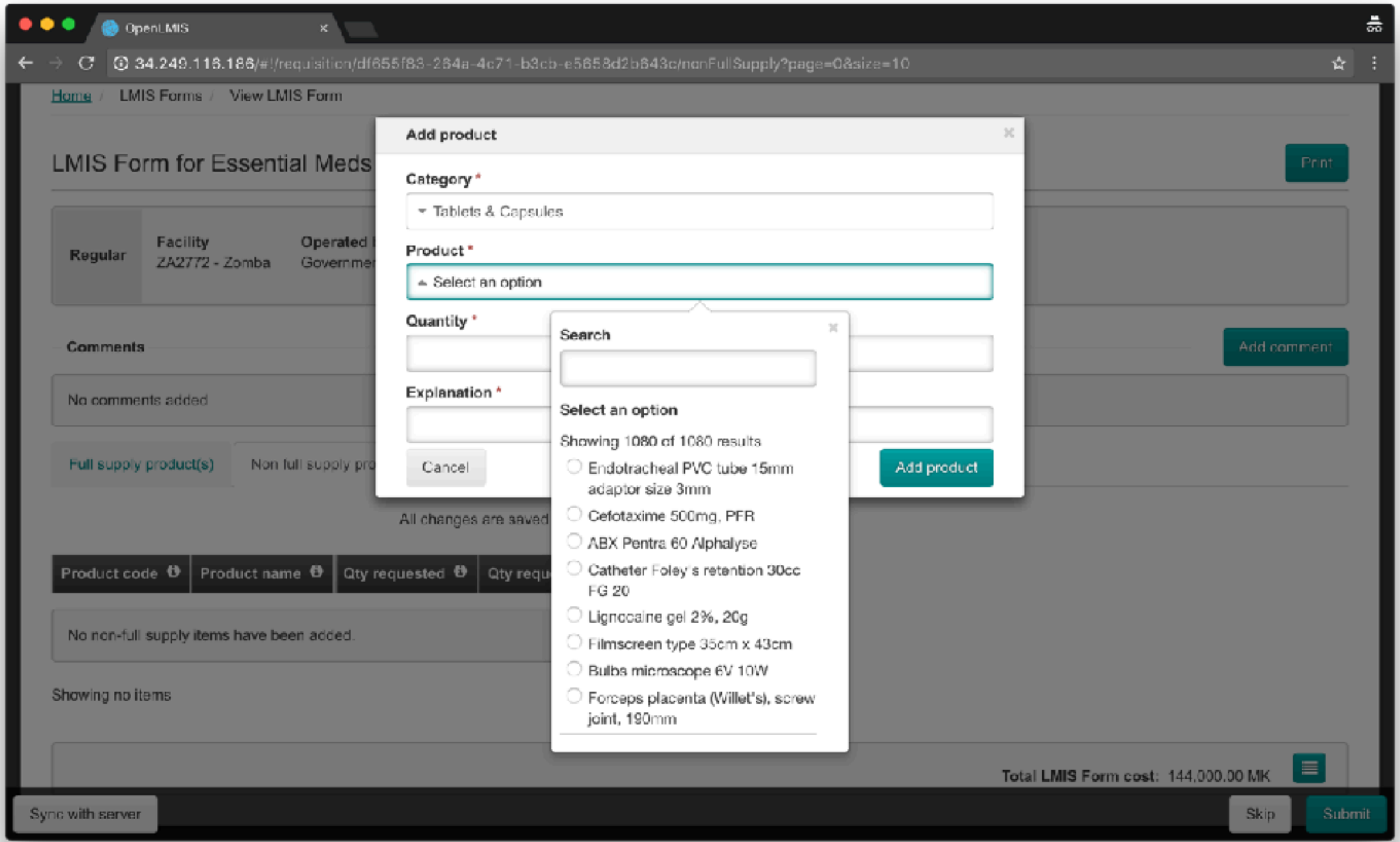
Viewing a Requisition shows no Status MW-242

(Requisition that are Rejected show as "INITIATED".)

Rejected requisitions not indicated MW-244



Scrolling both ways/hard to check math MW-207



Dropdowns: MW-217, 159, 186, 178, 214

POSSIBLE SOLUTIONS

1. Buggy	1. Testing. Test UI? Tests with each bug fix?
2. Brittle	2. Manage configurability. Docs? On-screen docs?
3. Slow	3. Optimize. Test. (Idea for a rate-limit hotspot.)
4. Hard to use	4. Spend more time with our users. "Rocket Surgery at a Distance"

THINK ABOUT IMPLEMENTORS

- Using the components; not ref-distro
  - versioning and release cycle
  - nginx, requisition; implementors need fast pull request and release timing, not 3-month cycle

THINK ABOUT IMPLEMENTORS

- Over-riding whole UI screens/files of code?
  - core would fix something but they would not get fix because they had "forked" that file
    - make sure our UI overrides are component-based, "atomic" or "granular"

UAT RESULTS

- Another round of UAT before sign-off to go live
- Possible timeline adjustment
- Lots of bugs to address
- Lots of master data issues
- Excitement and optimism by stakeholders about implementing OpenLMIS
  - "Made lemonade out of lemon peels and dirty water"