

Mukono Municipal Council, Uganda

(Hospital)

Software Engineering Intern

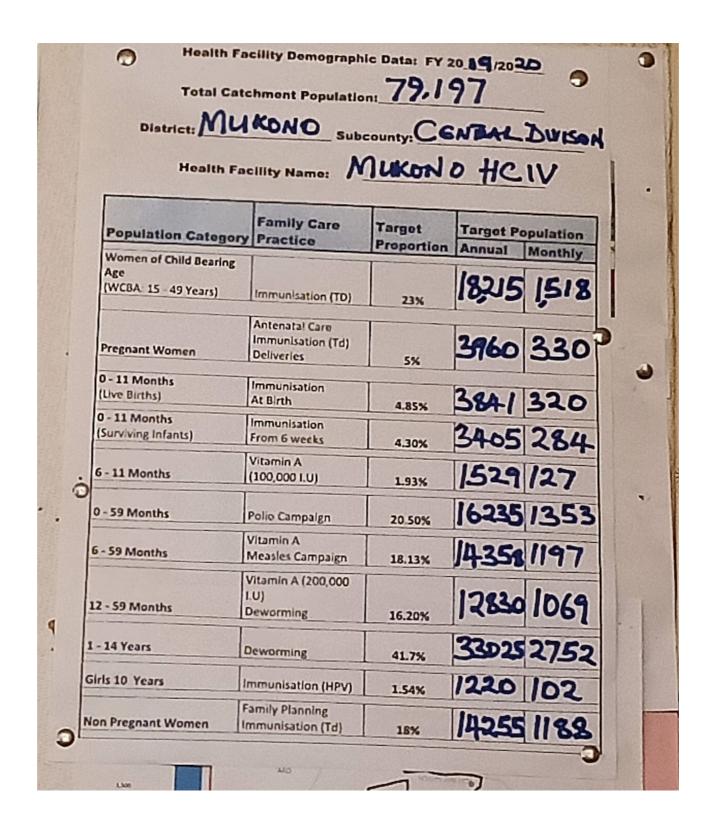
Feb 2020 -Omkar Bahiwal, 23

Mukono Municipal Council

- About https://mukonomunicipalcouncil.go.ug/
- Central Government Organisation for the Town of Mukono.
- Includes all the Parish, Villages Under Mukono Town and Their Health Center
- Placement Under IT Administration Department.

Project Work

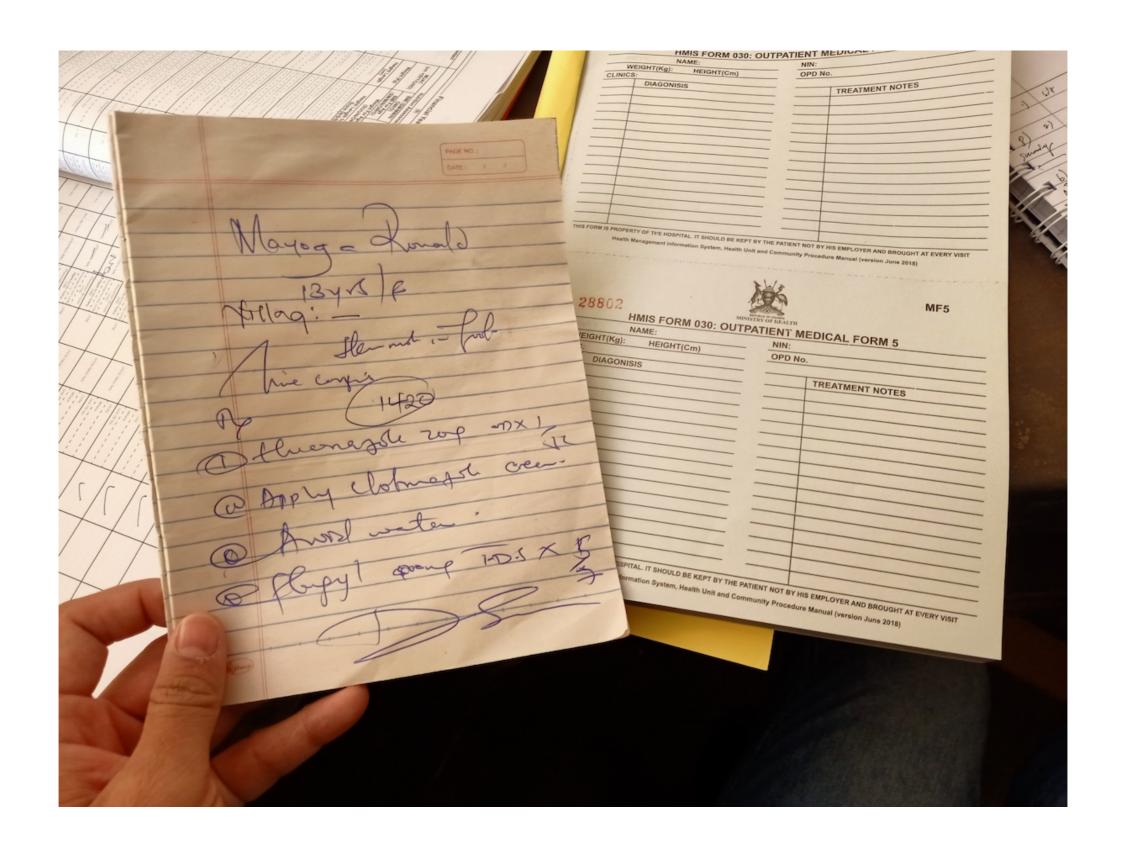
- Development of Local Web Application for OPD Process flow Digitisation.
- Patient Queueing System.
- IT Administration Tasks Automation.
- Network Management.



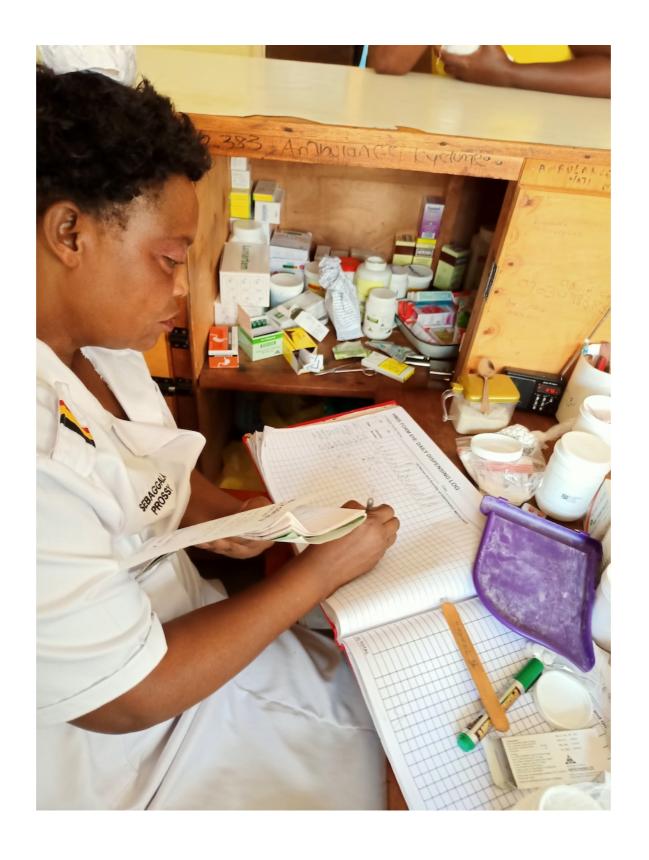
Demographics Data for Pregnancy Ward Shows 1518 Patients Monthly. Records Say Approx. 4500 Patients Monthly in OPD



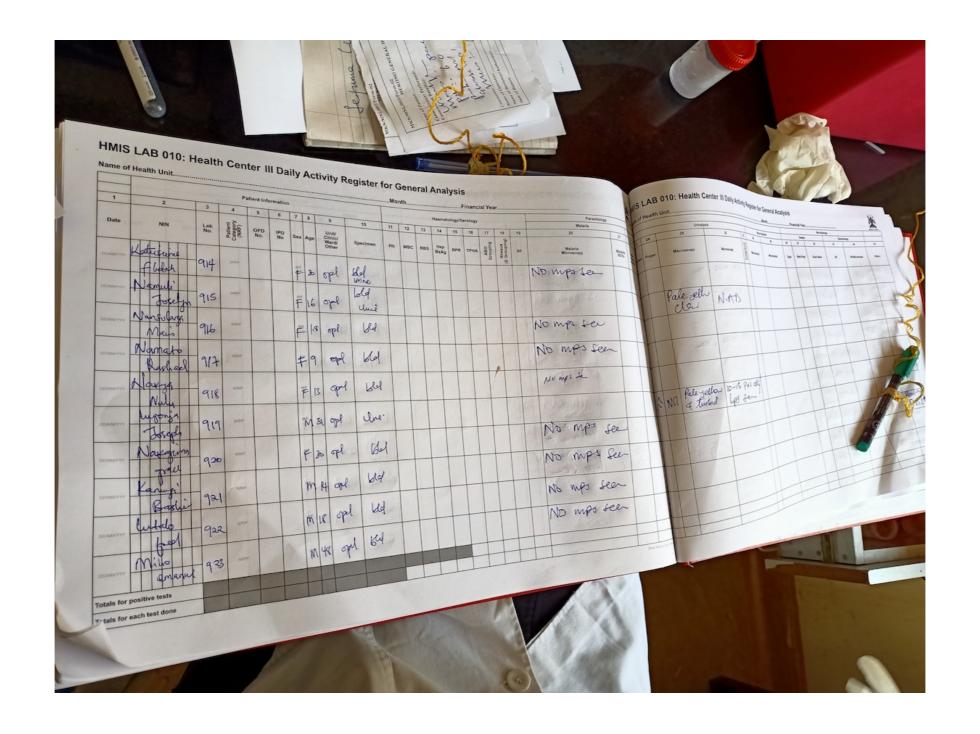
Reception



Doctor's Prescription



Pharmacy



Lab Sample Collection Records

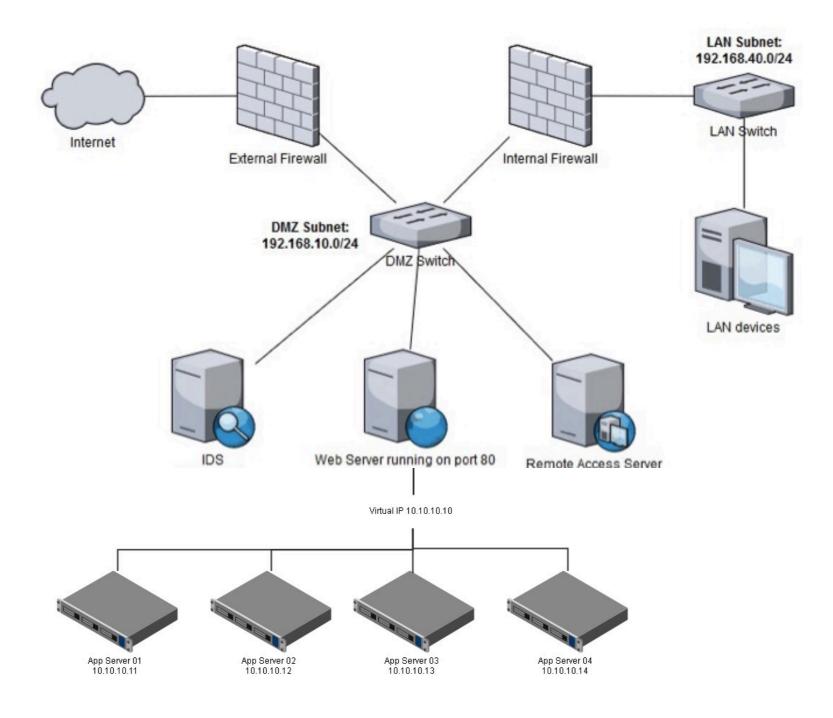
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Ministry Of Health
Ministry Of Health National Tuberculosis and Leprosy Control Program (NTLP) NATIONAL TB REFERENCE LABORATORY (NTRL) Gene Xpert Request and Report Form Pistrict Man Region Canage Region Canage
Referring Health Unit MASSTE HEM District MASS Region CONTINUAL Sex Age 25 Sex Form Age 25 Sex
E/C/2 TYPE OF PATIENT
HIV positive Children (0-14 years) Diabetic Contact of DR TB Smear Pos at 2 months Treatment Failure Relapse Lost to follow up Health workers Pregnant/ lactating mothers Prisoners & refugees Others (specify)
HIV STATUS SPUTUM SMEAR RESULTS Positive Negative Negative Unknown Positive Scanty Positive 1+ positive 2+ positive 2+
HIV STATUS SPUTUM SMEAR RESULTS CHEST X-RAY STATUS Positive Negative unknown
Negative Unknown Positive 1+ Normal Normal
positive 2+ Positive 3+
Unknown
Requesting Clinician Date 25/2/22 Phone No. 0782249893
Gene Xpert site District
Sample Received by Date
5. 18
XPERT MTB/RIF RESULTS XPERT MTB RESULTS RIF RESISTANCE STATUS
Date Tested 26. 2.20 MTB Not Detected Not Applicable Rif Resistance not Detected
MTB DETECTED MEDIUM Invalid Error No result
Name of Lab. personnel Signature Option Date 26-2-20
Version 15th Dec 2016
Version 15th Dec 2016
-
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Lab Results

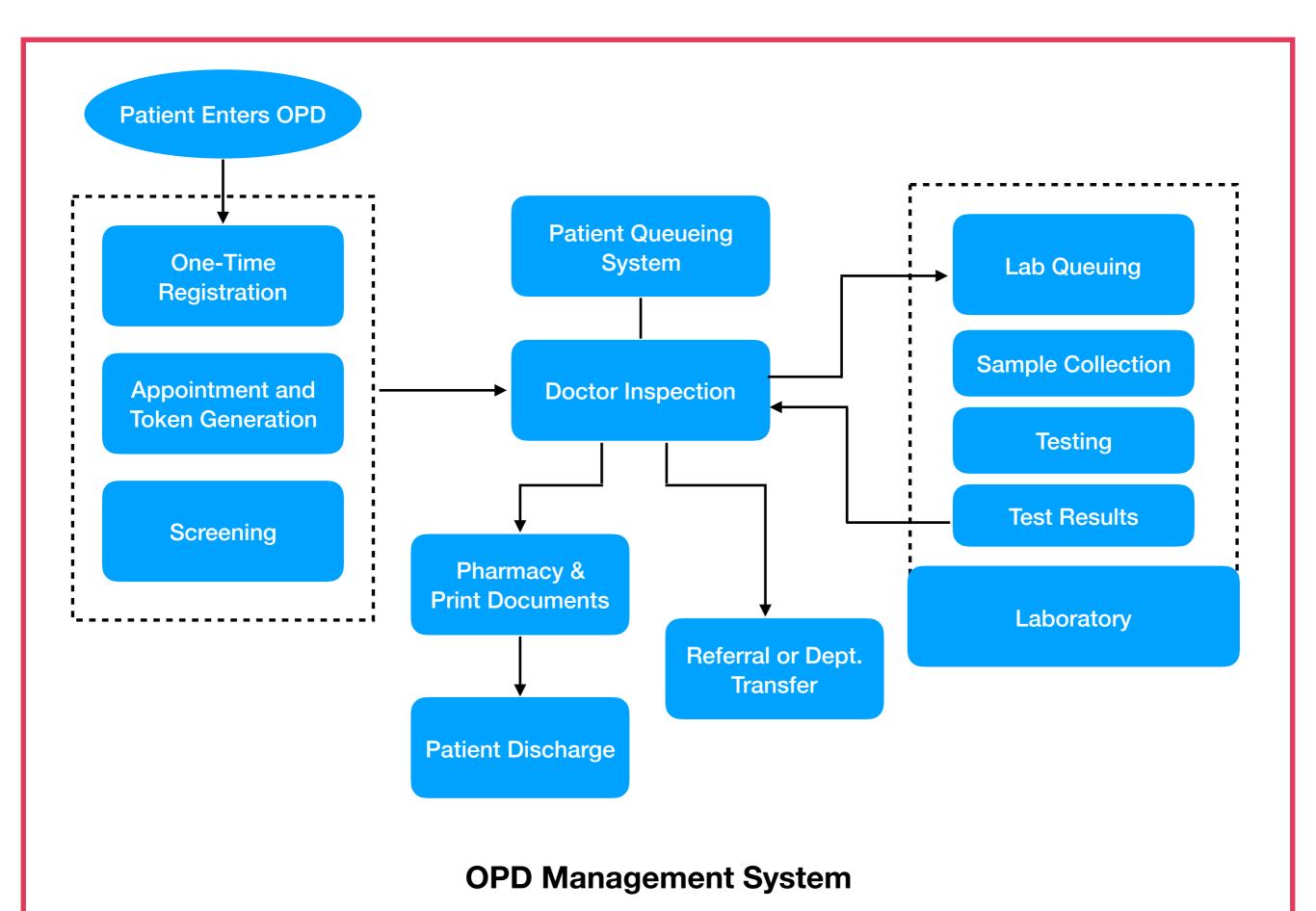
Technical Details

- Implementation of Locally Hosted Web Application.
- Web Server : Apache / IIS 9 with PHP
- Database Server : MySQL
- Windows Server 2019
- According to WHO Standards

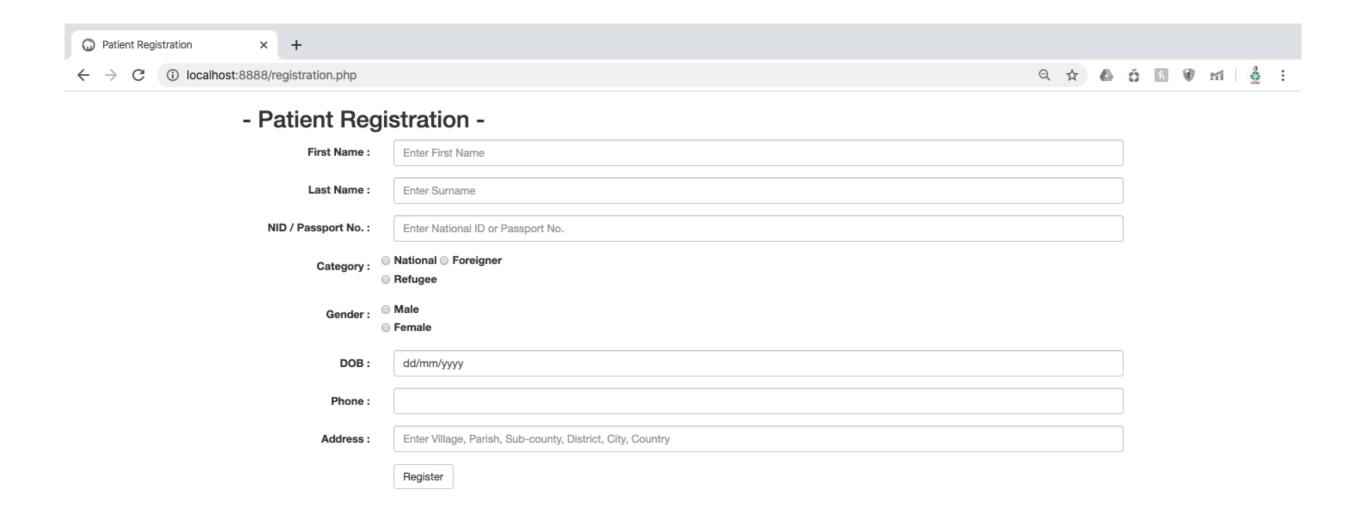




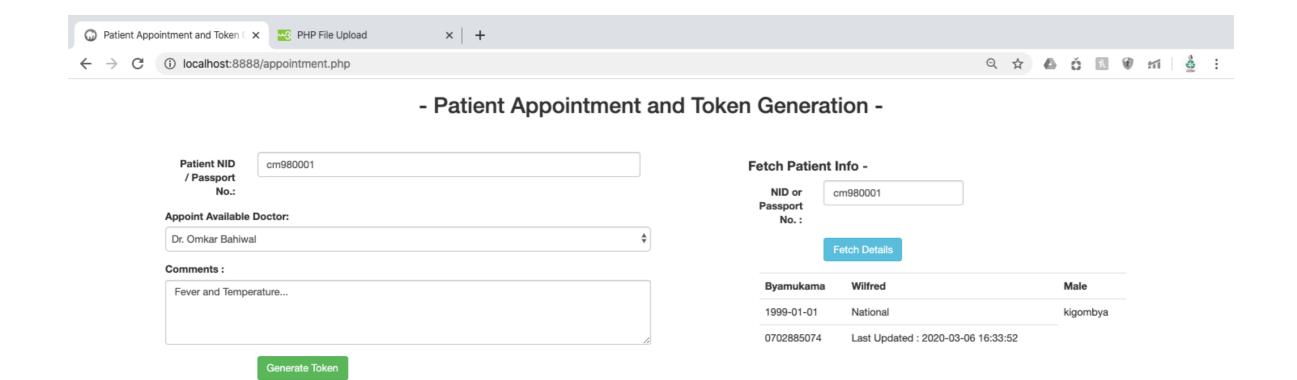
LAN and Hosting Infrastructure in the Hospital



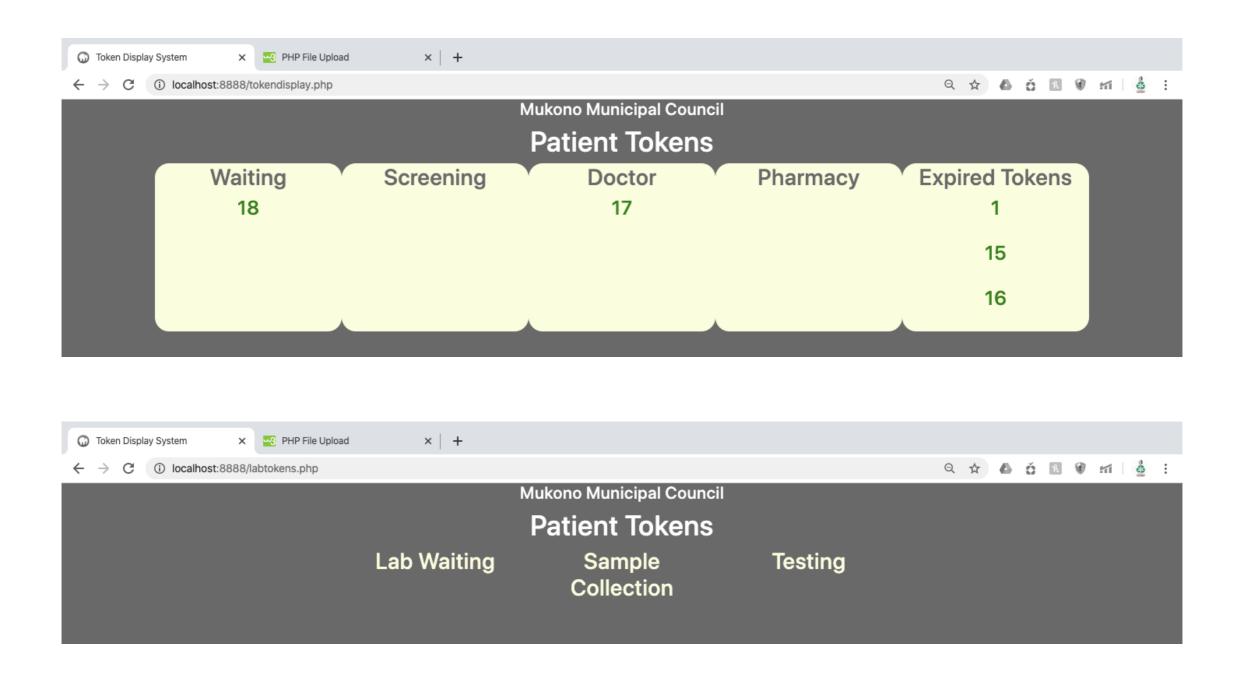
ScreenShots



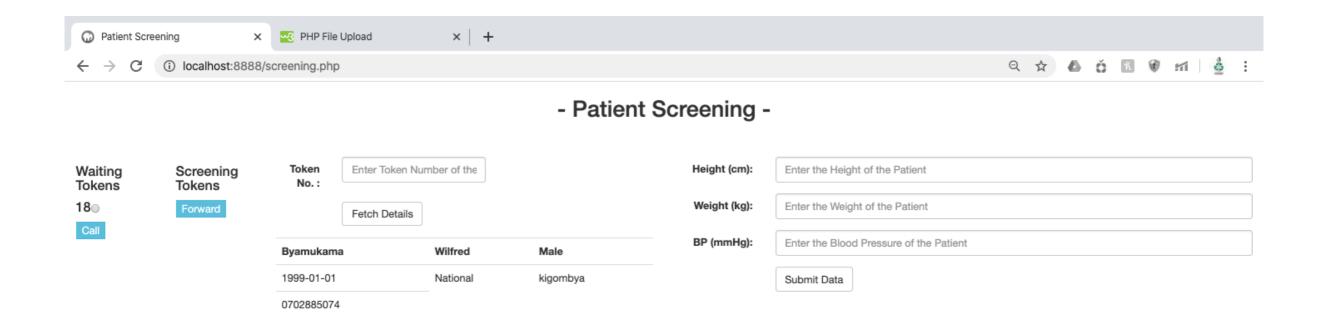
Patient One Time Registration using National ID or Passport (at Reception)



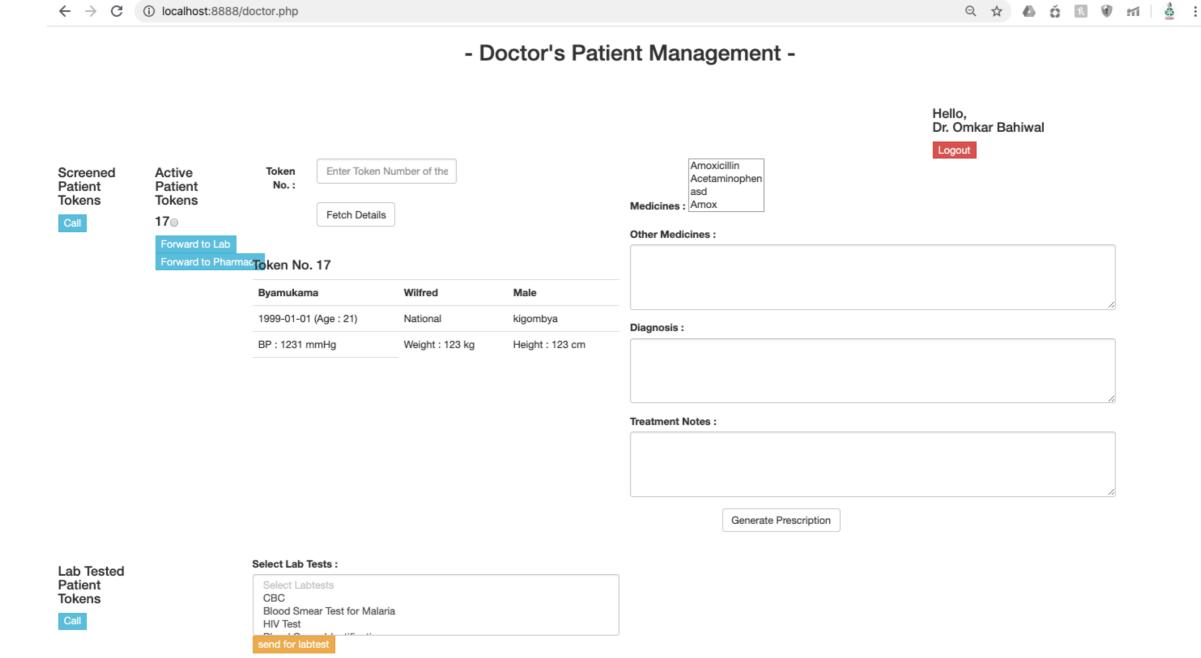
Appointment and Token Generation (at Reception)



Token Display Near Waiting Area (Patient Queueing)

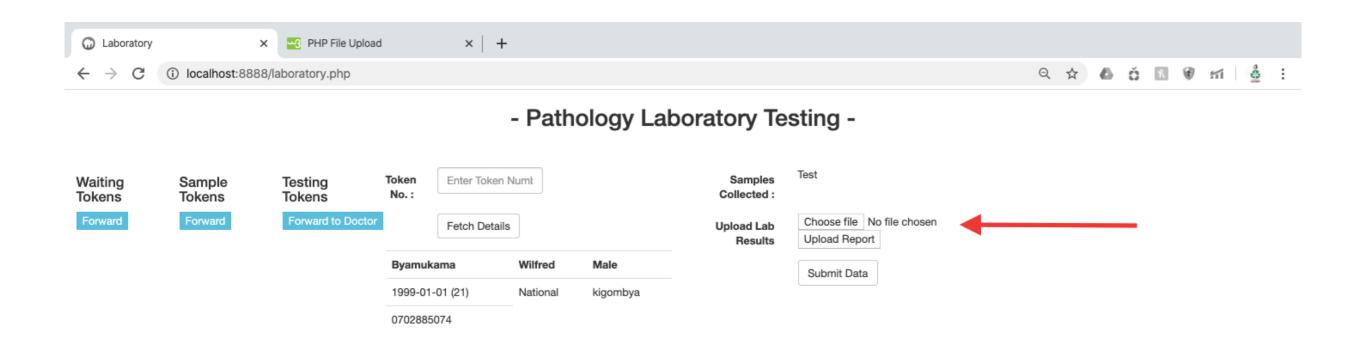


Screening

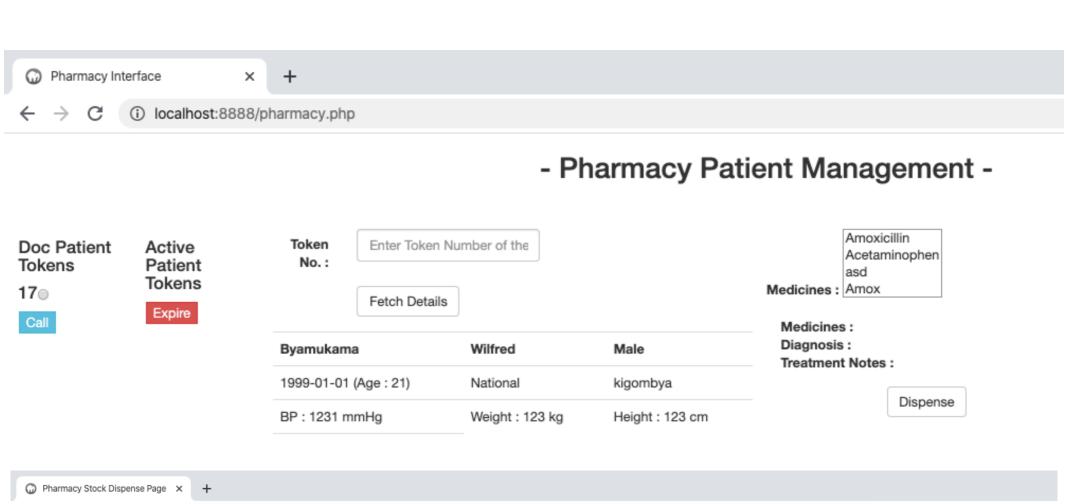


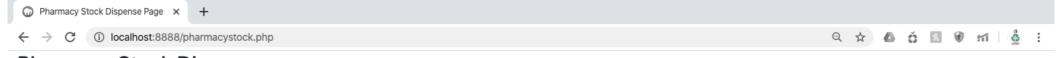
Doctor's Interface

Doctor's Interface



Lab (Test) Interface





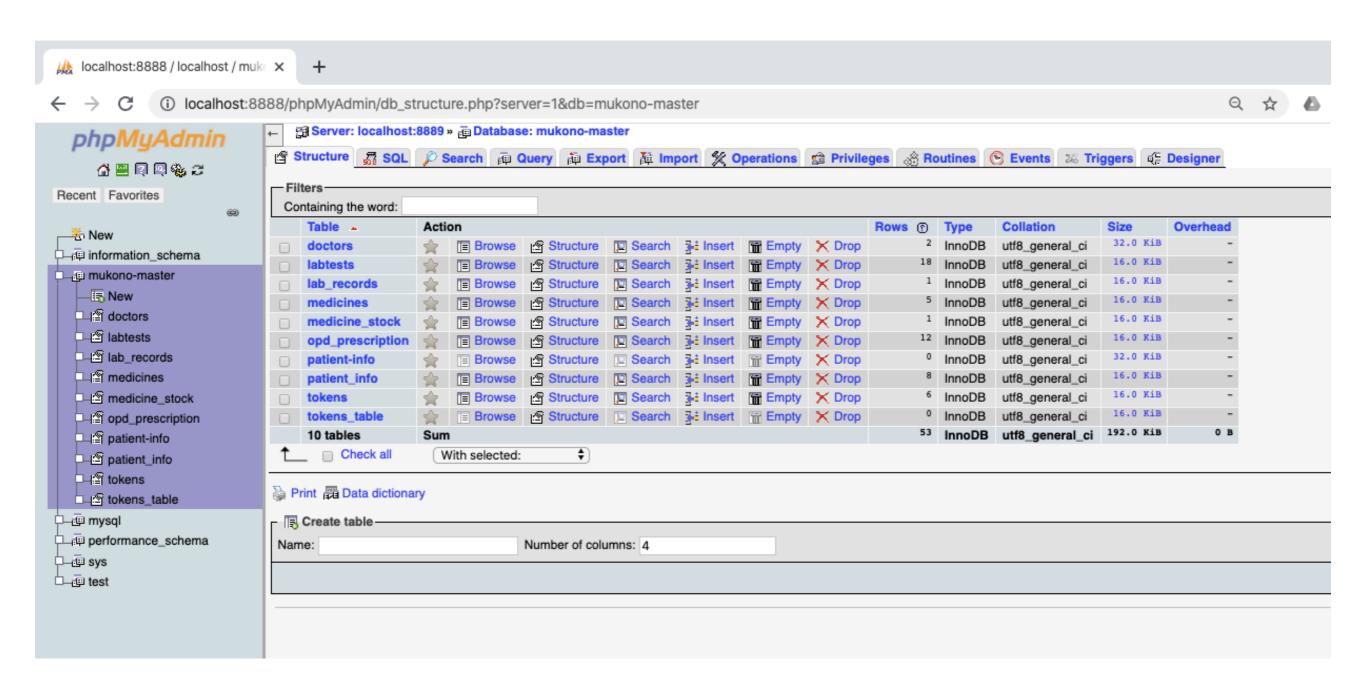
Pharmacy Stock Dispensary.

Displaying the current stock of medicines.

SNo.	M-ID	Medicine	Dosage	Stock	Desc	Date of Expiry	Personnel Initials	Date of Issue	Last_Updated	Dispense Quantity	Confirm?
1	1	Amoxicillin	500mg	1000	Antibiotic				2020-03-09 15:59:22		
2	2	Acetaminophen	500mg	500	Analgesic - Paracetamol				2020-03-09 16:12:44		0
3	6	asd	asdasd	33	sdsa	2030-03-12	asdas	2020-03-10	2020-03-18 15:12:56		
4	7	Amox	Test	12	asdasd	2020-03-25	ОВ	2020-03-19	2020-03-18 15:20:00		
5	8	crocin	500mg	1000	Head Ache anti Inflamatory	2020-03-31	ОВ	2020-03-18	2020-03-18 16:19:17		

Submit

Pharmacy and Dispensary



Database in MySQL

Next Stages and Scope

- Healthcare Analytics and DSS
- Cloud Based hosting for remote supervision.
- Implementation of the OPD System in Other Healthcare Centres in MMC

Thank You!