



MARVEL MEDICAL SYSTEM DOCUMENTATION

Contact US

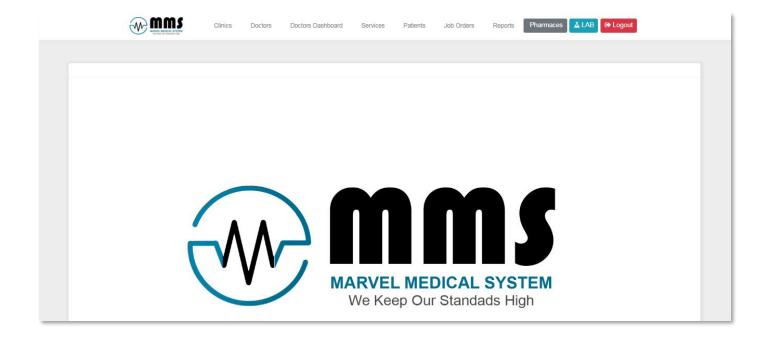
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Summary

First - Clinic System

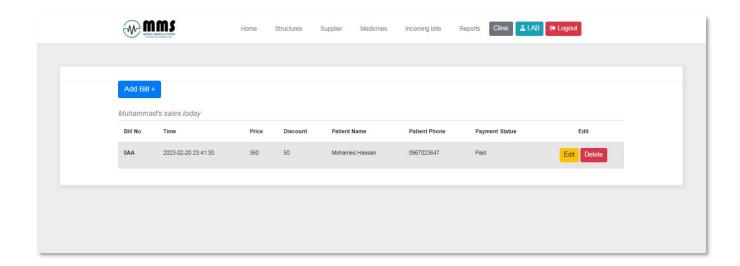
The Marvel clinic system removes any difficulties and complications in relation to the activities of medical clinics, by showing the patient's history very quickly, direct linking with many doctors from different health clinics, and following up on reservations and appointment information for the clinic. It also allows the doctor to request examinations or a prescription for the patient





Second – Pharmacy System

It allows you to fully manage the pharmacy by managing incoming and outgoing bills, managing inventory smoothly, and also controlling the employee's permissions



Third – Laboratory System

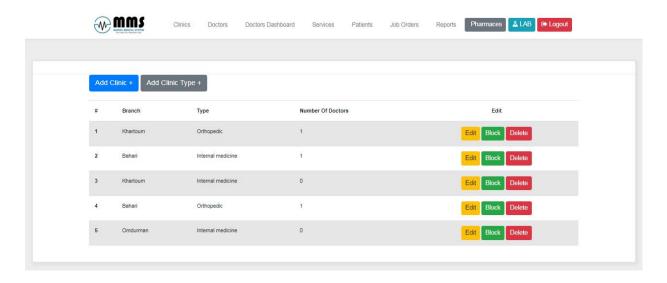
The Laboratory System is a multi-purpose software for medical laboratories. It provides full reports for laboratories in pathology, and various examinations. We, here at Marvel, have sought to study this sector in its various branches and work on designing accurate systems. The laboratory system included all the ideas and requirements that workers, doctors, and administrators in medical analysis centers wish to be available in order to facilitate the daily work movement and obtain quick results. This program has the feature of completing reservation and registration processes, as well as the ability to send results via e-mail to patients.



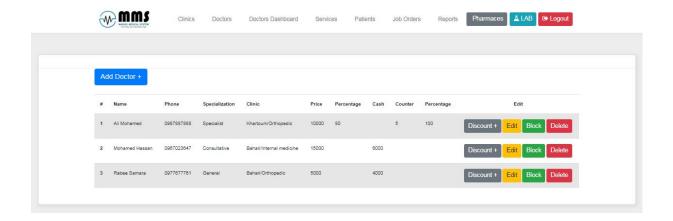
CLINIC SYSTEM

The clinic system contains many advantages and characteristics, including:

1. Adding clinics, classifying them, and identifying branches

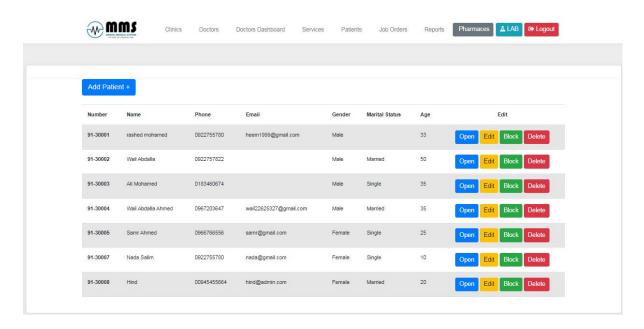


2. Add doctors to clinics and specify their specialties and prices for their services

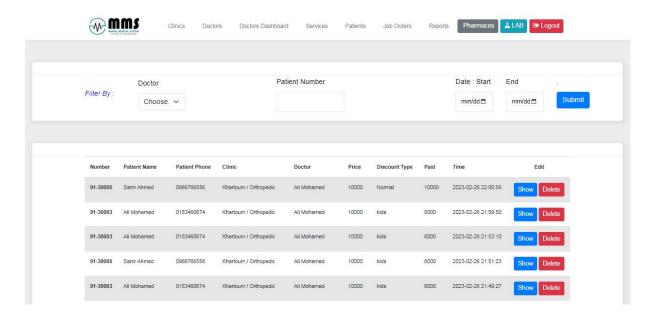




3. Opening a new patient file or searching for a patient already in the system by file number or phone number

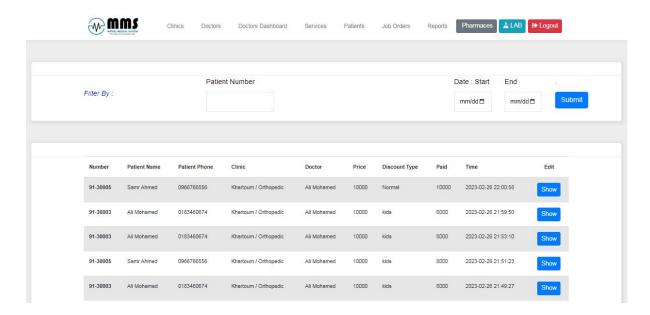


4. Book, confirm, cancel and reschedule a patient appointment and search for patient appointments with ease

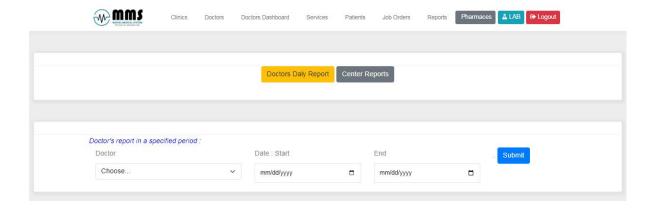




5. Doctor DASHBOARD allows the doctor to review patients' appointment and meet them, and it is also possible to attach laboratory tests or write a prescription for the pharmacy and view patients` history.



6. View many different reports.

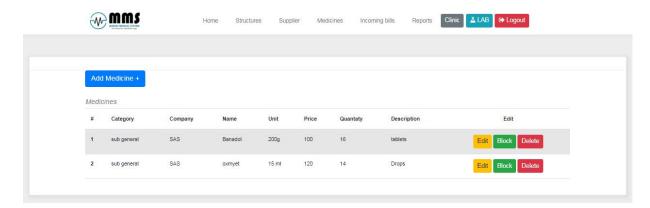




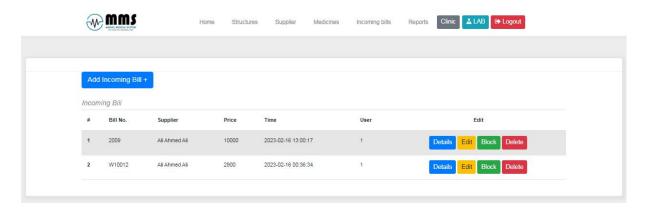
PHARMACY SYSTEM

The pharmacy system contains many features including:

1. Integrated management of pharmacy inventory

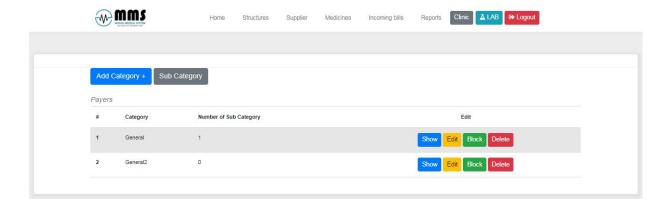


2. Manage incoming invoices and link them to inventory

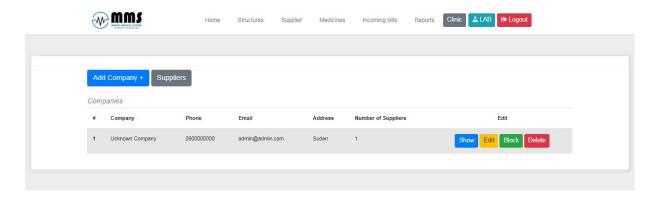




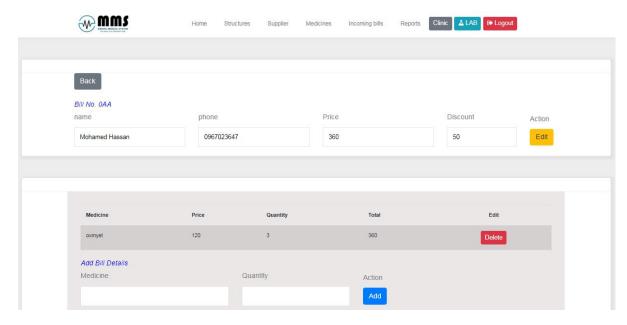
3. Divide and classify medicines into several categories



4. Adding medicines supplying companies and their data



5. Sales window with invoice printing when needed





LABORATORY SYSTEM

Marvel Medical System – MMS Covers the Following Areas:

- Order entry.
- Patient accounting and insurance management.
- Sample barcode labeling and Tracking.
- Test routing.
- Interface with automated analyzers and middleware.
- Results review and reporting.
- Administrative reports.
- System security.

Marvel Medical System – MMS Features:

- Very easy operation.
- Customizable sample barcode label including patient data.
- · Registration of full patient demographics.
- Supports ICD10, LOINC and CPT4 codes.
- Automated medical necessity check of requested tests against patient diagnosis.
- Supports sample splitting and dilutions.
- Direct interface with analyzers, lab automation, point of care, and preanalytical systems.
- · Automated calculation of reference range according to age and gender.
- Automated calculation of ratio and formula results.
- Automated delta check evaluation.
- Clear color-coded identification of abnormal results.
- Fast and effective search functions that can retrieve recent & old records using many types of search criteria.



- Complete billing module covering: Service price lists, Health Insurance, and Discounts.
- ASTM integration with other systems.
- Timestamps for all operations.
- Multi-user security levels and privileges.

Marvel Medical System - Modules:

Core Module:

MMS core module is the engine that runs basic LIS functions such as:

Patient data management, order entry, front office financials, test necessity check, sample labeling, worklist distribution, results entry, review and release, workflow monitoring, and management reports.

Sample Tracking:

MMS allows you to scan all barcoded samples throughout their full lifecycle going through: Sample collection, distribution, preparation, analysis, storage, and disposal. MMS tracks the location and custody of each individual sample, which enables you to track any lost sample, and follow its chain of custody, while providing valuable reports about the average time consumed in processing station or any other location.

Analyzers Interface:

The automation of data exchange between LIS system and automated laboratory analyzers dramatically speeds up the analysis process and eliminates many potential samples programming and results-typing errors.

Analyzers identify barcoded samples' IDs and receive their work orders from MMS. Results are transmitted from analyzers to MMS as soon as they are available.



System Management & Event Alerting:

MMS system monitors and analyzes all operational and technical events that occur within the system, and then directs important alerts to the designated person.

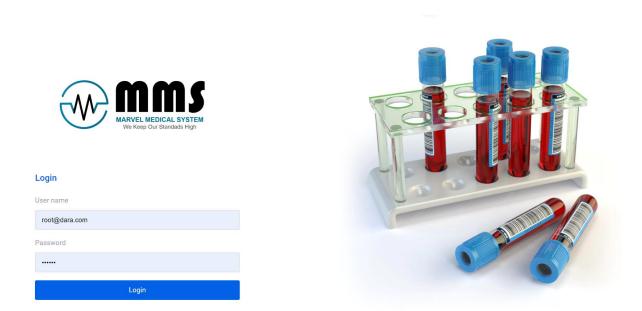
Operational issues like results delays are directed to lab supervisors, QC violations are directed to QC officer, while server issues are directed to IT staff, all with escalation policies if they are not resolved in a defined period.

Billing:

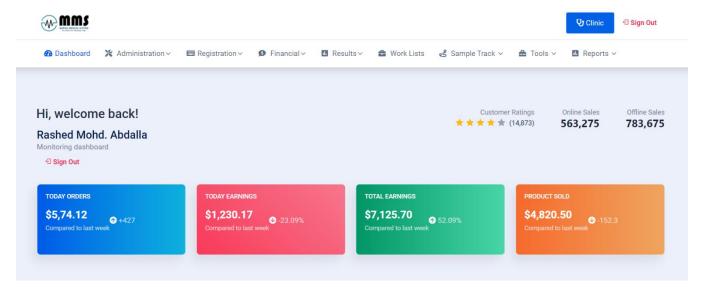
MMS supports multiple pricing policies and price lists. The system monitors credit limits and insurance coverage for all work orders. It captures charges while accounting for credit rules, order merges, order cancelations, and special charging requirements. Client invoices are generated easily and hospital's patient charges are sent automatically to the financial system.



Marvel Medical System - Lab Internal screens:

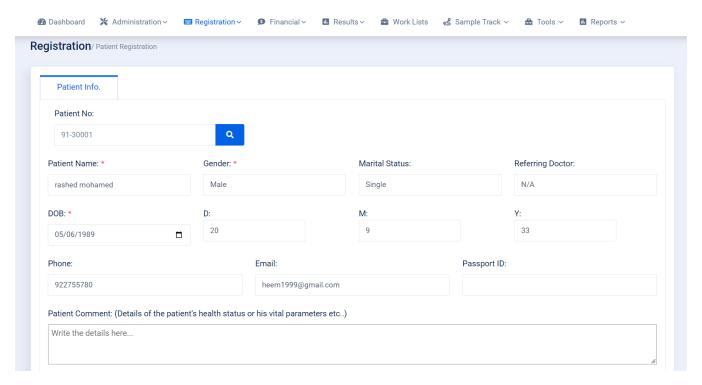


Login screen with user authorization privileges.

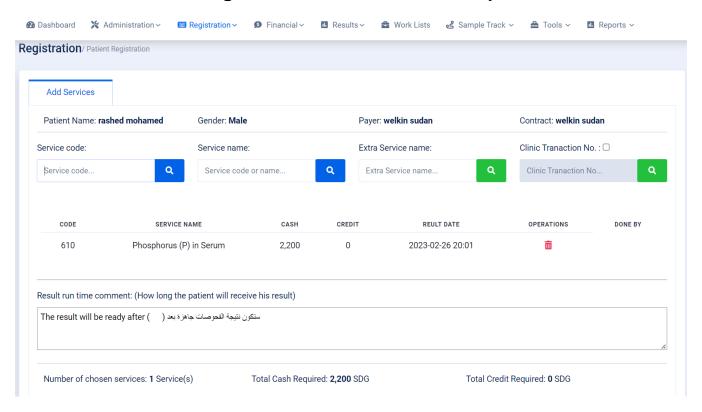


Dashboard – shows system status & statistics.



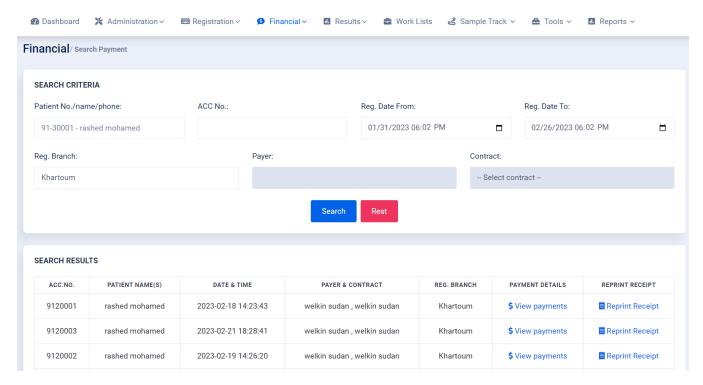


Patient registration form for new or old patients.

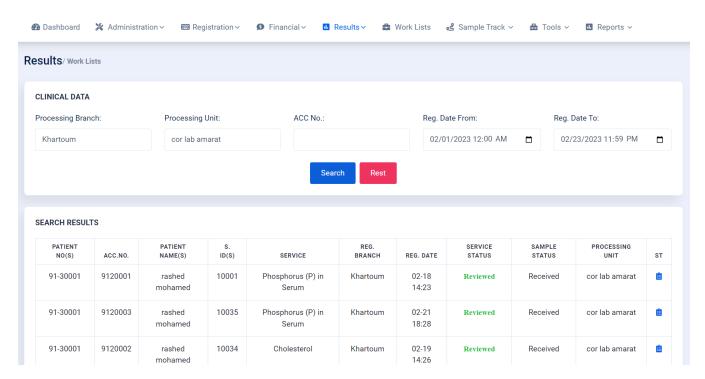


Add services to the patient with the result date and make the payment process.



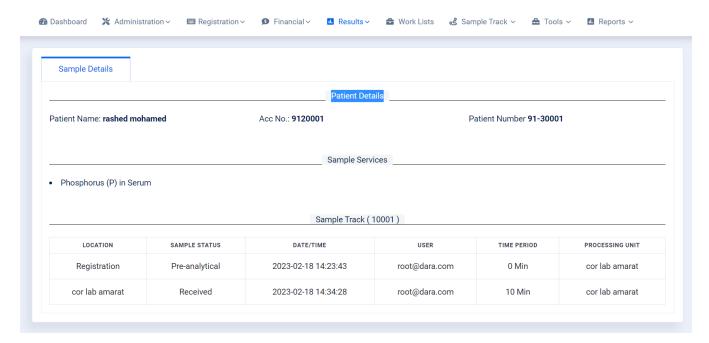


Search payment's view, edit and print.

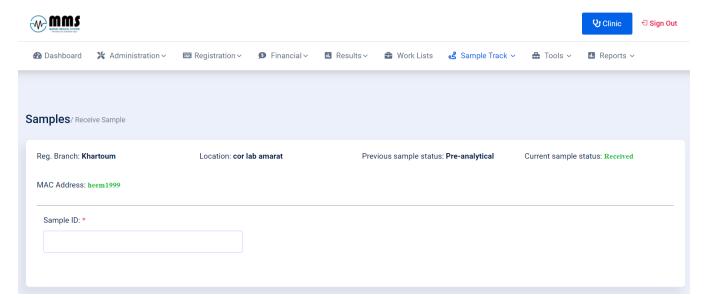


Search results view registered test with patient name, sample Id, service name, test status and with sample tracking option.



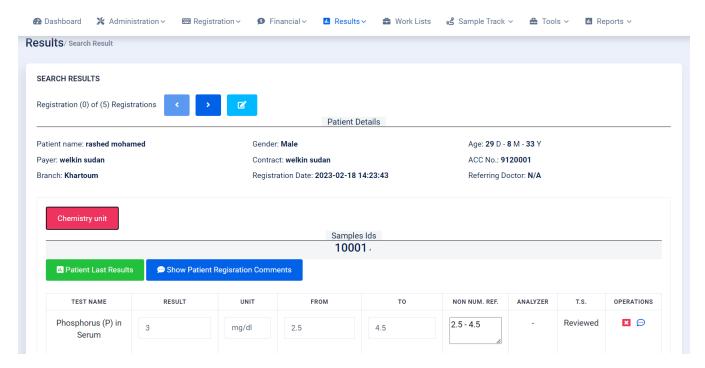


Sample tracking screen

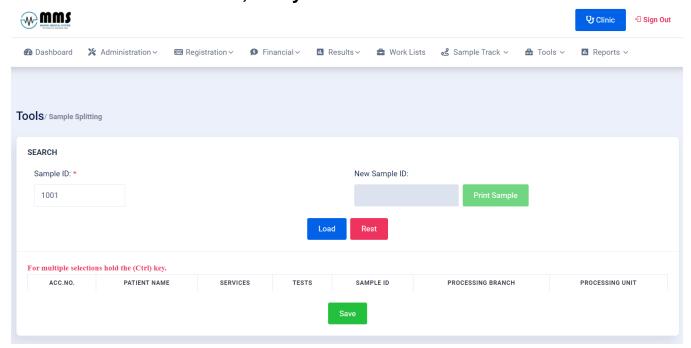


Receiving the sample at the designated unit



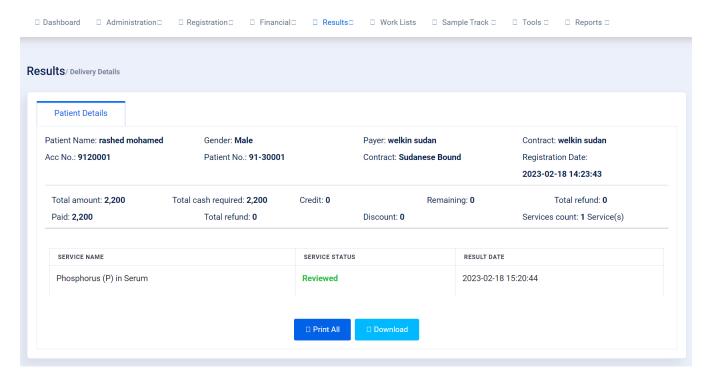


Write the test result, view patient last results and comments with ability to save, verify and review the result



Samples splitting window.





Search, view, print and download result.



Printed by: Rashed Mohd. Abdalla

Company Name

Printed date: 6:08:33 PM 2/26/2023

إسم الشركة

Khartoum Khartoum

Patient Name rashed mohamed Patient No. 91-30001

ACC No. 9120001 Patient Sex Male

Age 33 Year Patient Mobile 922755780

Payer welkin sudan Branch Khartoum

Sample Date welkin sudan Report Date Khartoum

Referring Doctor N/A

Chemistry unit

Test	Result	Unit	Ref. Rang
Phosphorus (P) in Serum	3	mg/dl	2.5 - 4.5

Comments:

Reviewed By:

Rashed Mohd. Abdalla

Actual result.

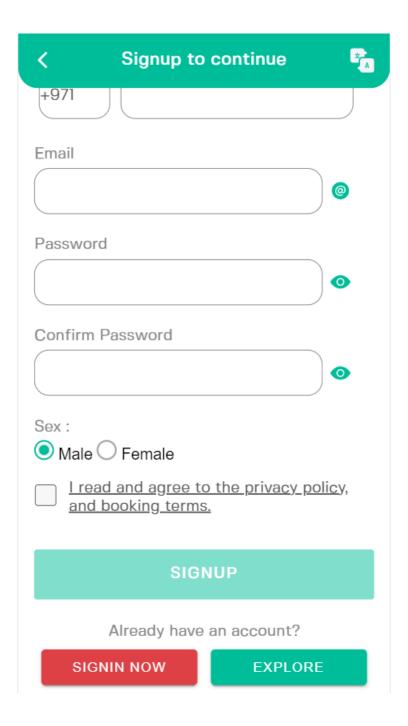


Patients Booking App.

Patients will use a user-friendly mobile application to:

- Place requests for sample collection.
- Upload prescriptions.
- View and manage their health records.

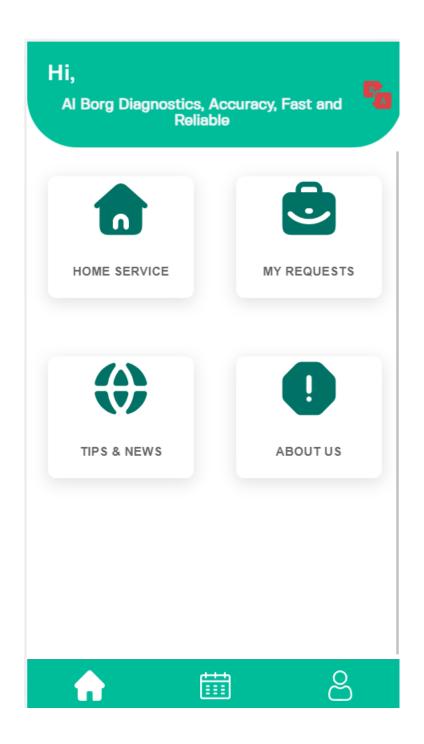




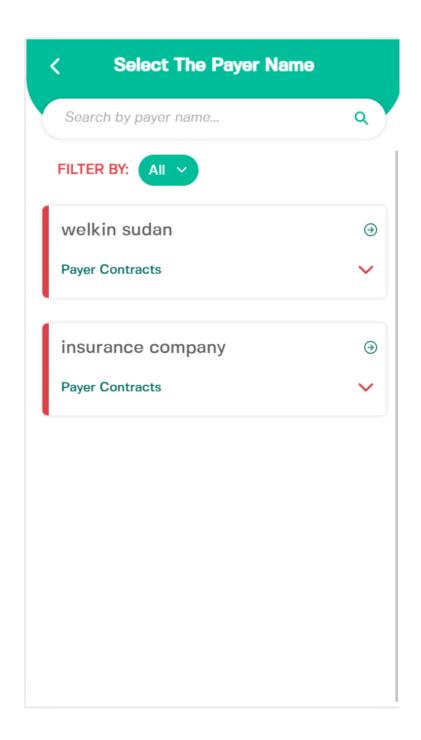


Signin to	continue		
Enter your mobile num +971 Password	ber without(0)		
	•		
Forgot Password?			
SIGNIN			
Don't have an account?			
SIGNUP NOW	EXPLORE		

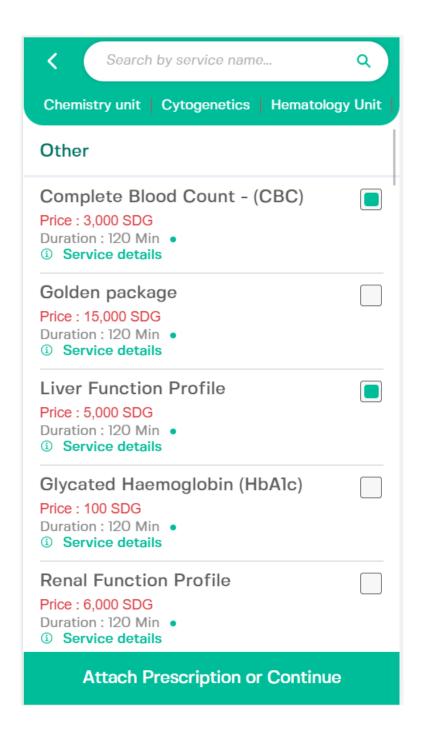
















" Selected Services

Complete Blood Count - (CBC)

Price: 3,000 SDG Duration: 120 Min

Bill Detail

The total price will be calculated after validating your attachments.

Attach files

Attach insurance card, prescription, etc...



Continue



Forgot Password

<

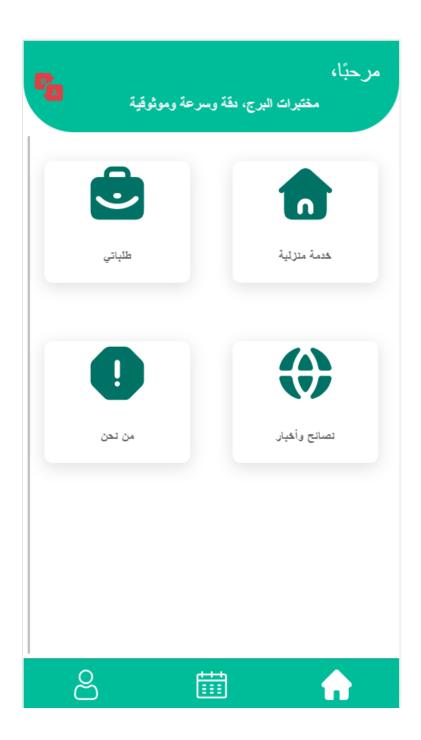


Please enter your phone

Enter your mobile number without(0)

Next









Upcoming Past Cancel

What does the status mean?

UNDER REVIEWING

Patient Name: Hana Mohd. Visit Date: 2023-03-22

Visit location: Kanon Hotel, Khartoum, Sudan Request Date: 16 March 2023 - 10:07 PM

Total: 7,725.6 SDG

View details

UNDER REVIEWING

Patient Name: Hana Mohd. Visit Date: 2023-03-22

Visit location: Kanon Hotel, Khartoum, Sudan **Request Date:** 16 March 2023 - 02:05 PM

Total: 00 SDG

View details

UNDER REVIEWING

Patient Name: واشد محمد عبدالله









Order Details



COMPLETED

What does the status mean?

<u>Total</u> 18,100 SDG

Patient Name: lkjldvd Visit Date: 2023-03-30

Visit location: Kanon Hotel, Khartoum, Sudan Request Date: 16 March 2023 - 10:19 PM

Services

<u>Price</u>

Cholesterol 5,000SDG
Phosphorus (P) in Serum 2,200SDG
Home visit service 10,900SDG

Attachments

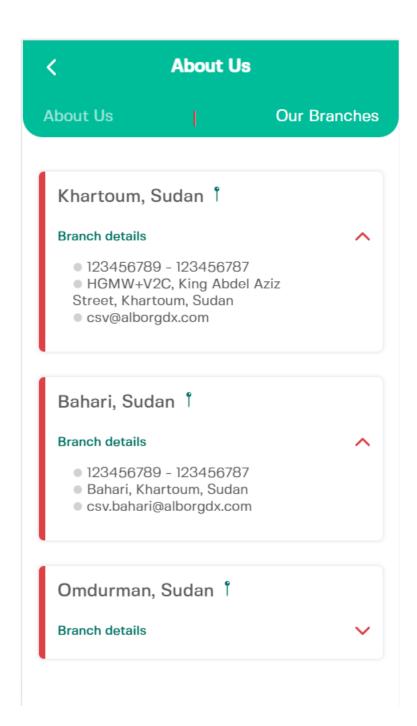


Request No. 90005

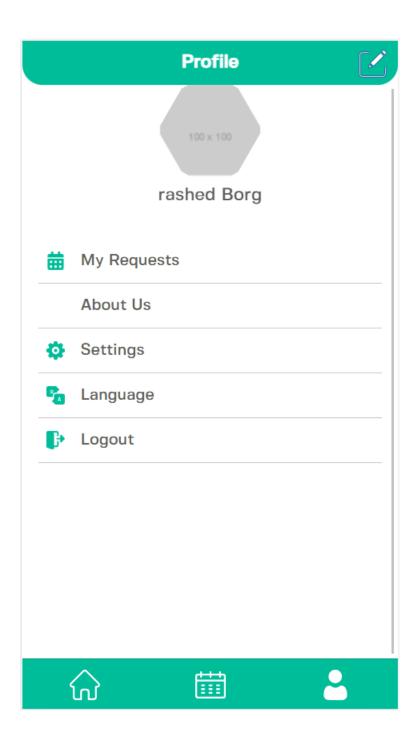
Payment Status

Completed (18,100 SDG)





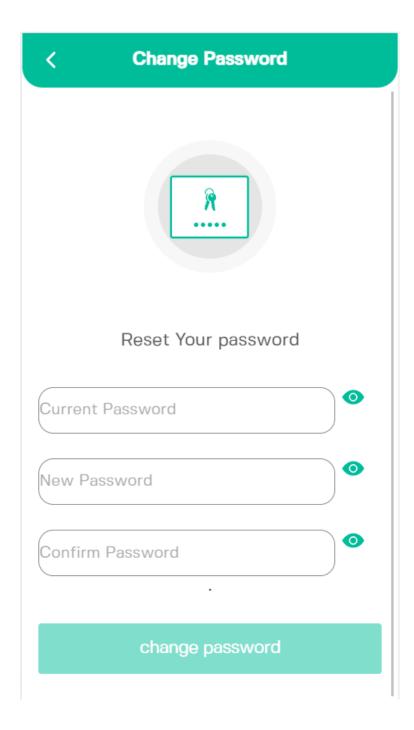






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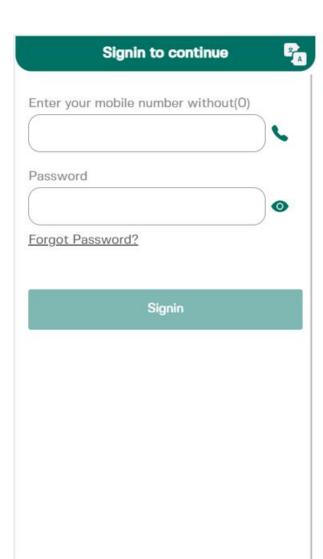


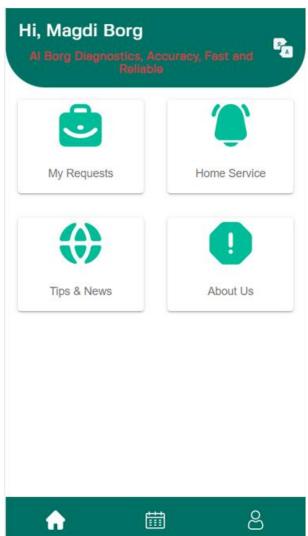
Phlebotomist App.

Laboratory staff will have access to a robust backend dashboard where they can:

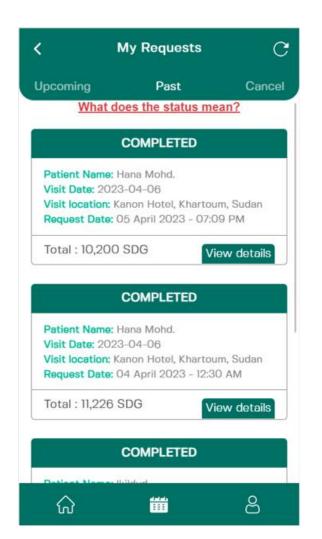
- Receive and manage patient requests.
- Select appropriate tests based on uploaded prescriptions.
- Send requests for patient approval.
- Process and analyze collected samples.
- Electronically deliver results to patients.

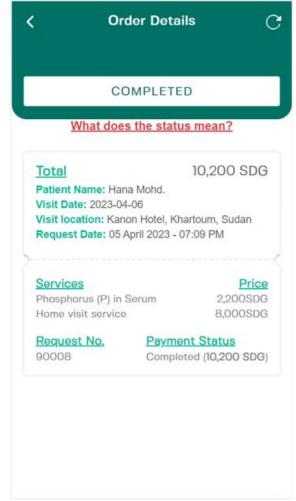




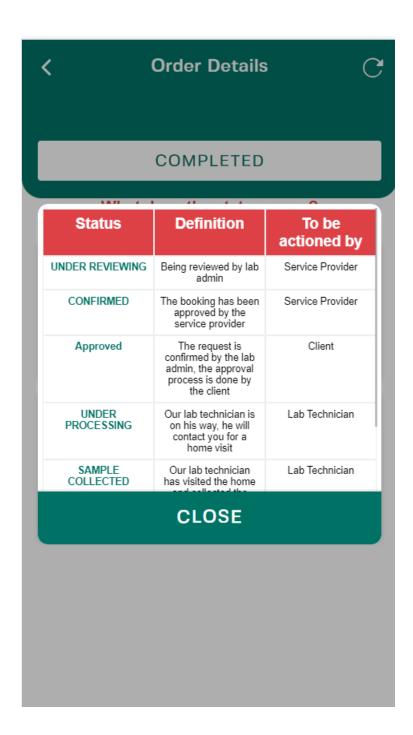




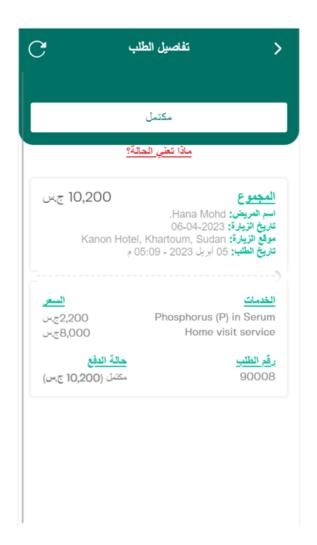














Backend Dashboard for Laboratories (Booking App.)

Laboratory staff will have access to a robust backend dashboard where they can:

- Receive and manage patient requests.
- View and manage their health records.
- Select appropriate tests based on uploaded prescriptions.
- Send requests for patient approval.
- Process and analyze collected samples.
- Electronically deliver results to patients.



