User Manual

For

Dishari

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Chapter One: Introduction

Dishari is a comprehensive digital healthcare platform developed to enhance the medical services provided within Noakhali Science and Technology University (NSTU).

Chapter Two: Dashboard

In this app, there are 5 sections:

1. Patient
2. Admin
3. Doctor
4. Lab
5. Dispenser

Chapter Three: Patient

3.1 Create Patient Account

This section is used by first-time users to register a new account.

Steps:

1. Tap **Sign Up** from the login screen.
2. Enter your **Full Name**.
3. Enter your **institutional email** (nstu.edu.bd).
4. Enter a valid **Phone Number**.
5. Select your **User Role** (Student / Teacher / Staff).
6. Choose your **Blood Group**.
7. Select your **Gender**.
8. Choose your **Date of Birth**.
9. Create a **strong password**.
10. Tap **Confirm** to complete registration.

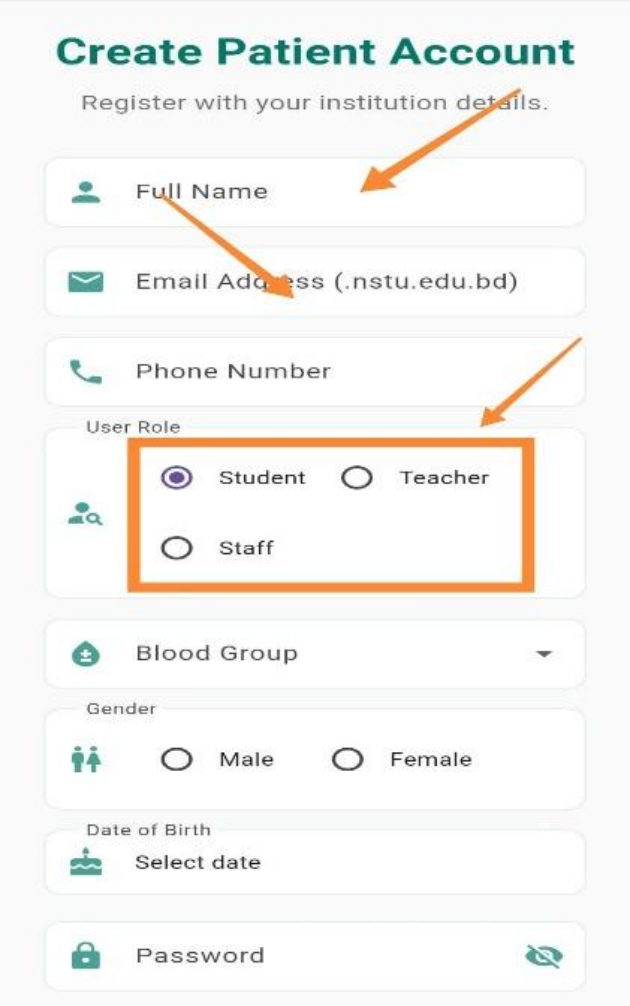

Figure-01: Sign up page

3.2 Log In

Use this section to access your account if you are already registered.

Step 1: Launch the Dishari application. You will see the main welcome screen.

Step 2: Tap the **"Enter your Email"** field and type your registered email address.

Step 3: Tap the **"Enter Your Password"** field and type your security password.

*Note: You can tap the **Eye Icon** (crossed out eye) on the right side of the password field to view the characters you are typing.*

Step 4: Once your details are entered, tap the large **"Log In"** button to access the dashboard.

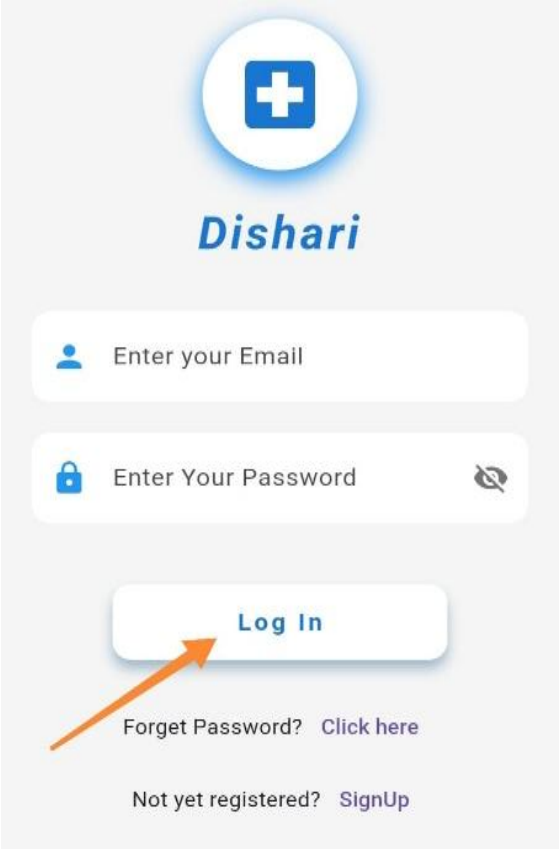

Figure-02: Log in page

3.2 How to Reset Your Password

Use this feature if you have forgotten your login credentials.

Step 1: On the login screen, click the **"Forgot Password?"** link.

Step 2: Tap the **"Enter your email"** field and type your registered email address.

Step 3: Click the **"Send Verification Code"** button to receive a reset code via email.

Step 4: If you remember your password or wish to cancel, click the **"Back"** button to return to the login screen.

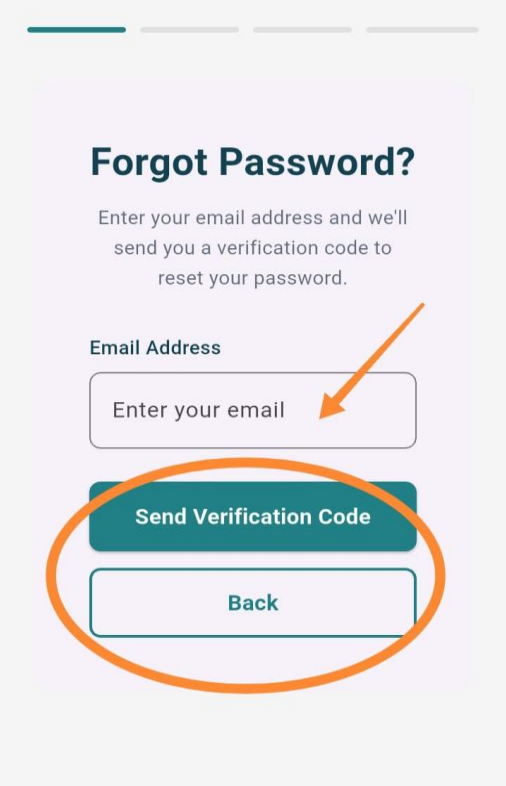

Figure-03: Forgot password

3.3 Patient Dashboard

The patient dashboard allows general users to access their medical history and view available staff.

Step 1: Upon logging in, view the **"Welcome"** banner to check notifications via the **Bell Icon**.

Step 2: Check the **"On Duty Medical Staff"** section to see which doctors or nurses are currently available (e.g., "Doctor • Morning").

Step 3: Use the **"Quick Actions"** grid to navigate to key features:

- **Profile** (View personal details).
- **Prescriptions** (View past prescriptions).
- **My Reports** (Access lab results).
- **Upload Results** (Submit external Reports of Specific test).
- **Lab test Availability.**
- **Ambulance & Staff.**

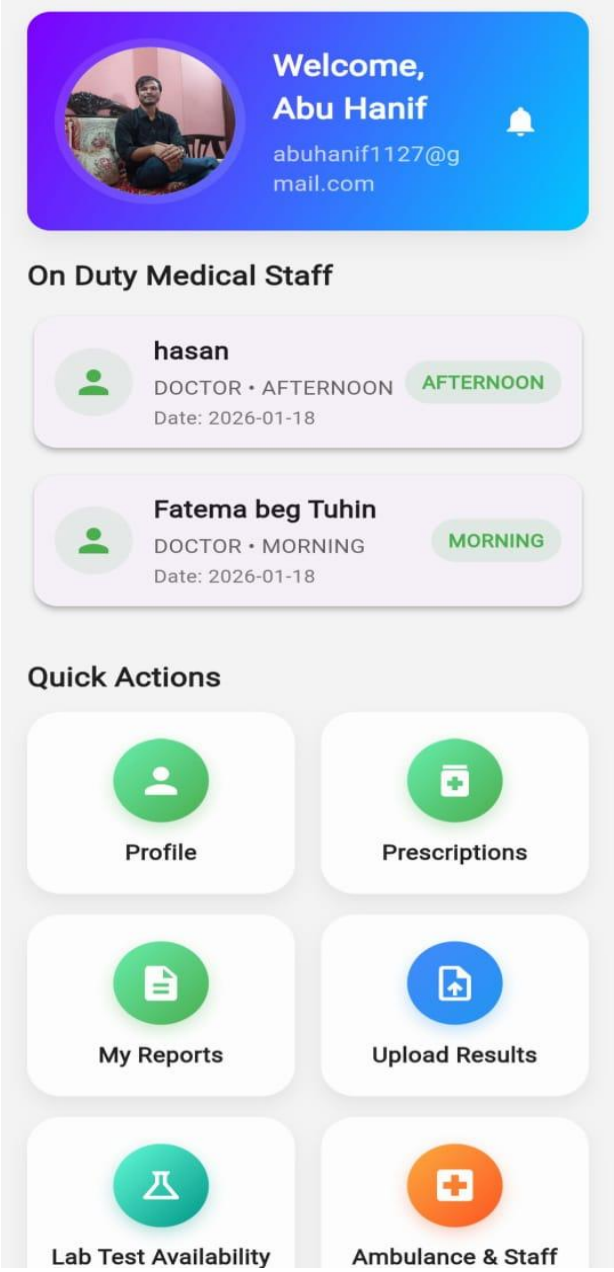

Figure-04: Patient Dashboard

3.3.1 My Profile

This section allows patients to **view and manage their personal information**.

Steps:

1. Tap **Profile** from the dashboard.
2. View personal details such as **Name, Email, Phone, Blood Group, Gender, and Date of Birth**.

3. Tap the **edit icon** to update editable information.
4. Use the **Back Arrow** to return to the previous screen.

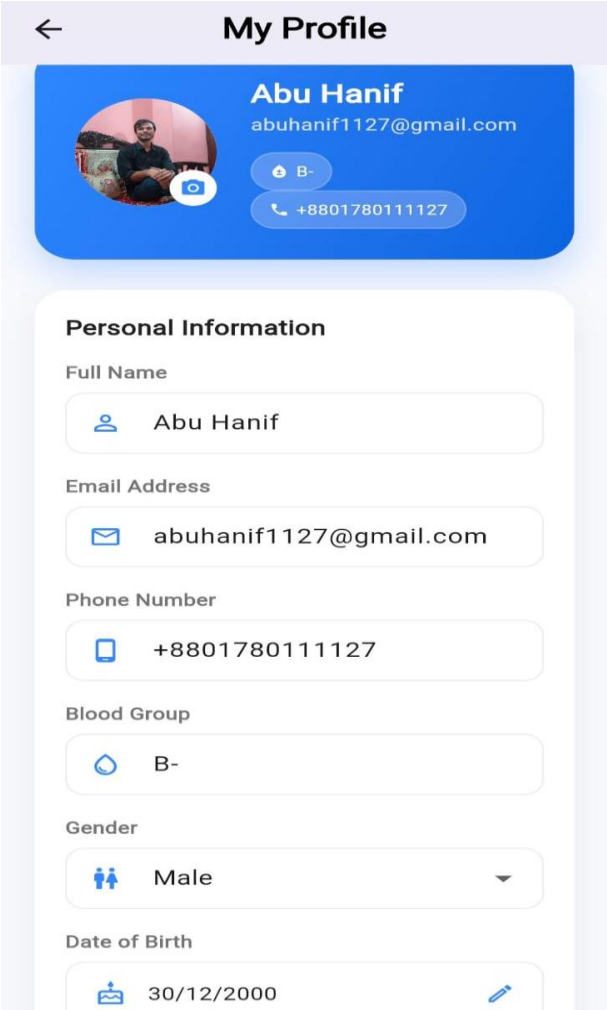

Figure-05: My Profile

3.3.2 My Prescriptions

This section allows patients to **view and download past prescriptions**.

Steps:

1. Tap **My Prescriptions** from the Patient Dashboard.
2. View the list of prescriptions with **doctor name and date**.
3. Tap the **PDF** button to download a prescription.
4. Open, share, or print the downloaded file.
5. Use the **Back Arrow** to return.

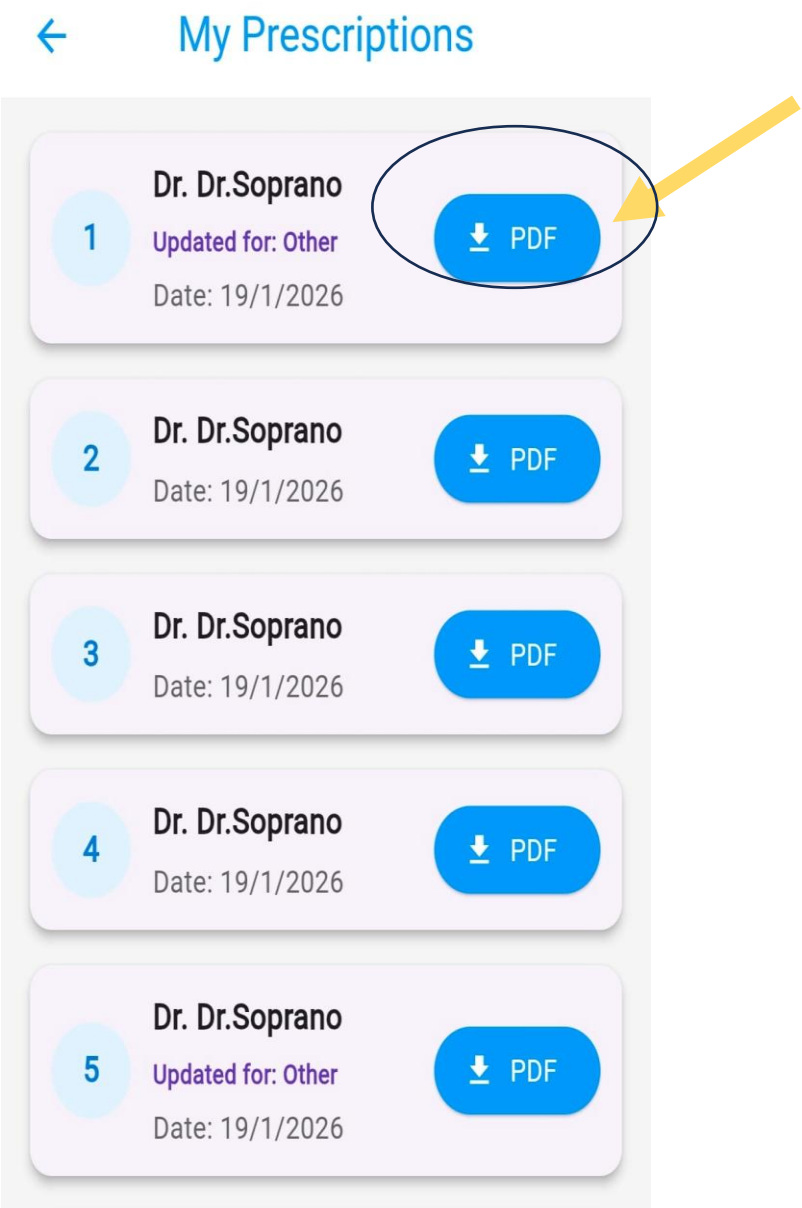

Figure-06: My Prescription

3.3.3 My Reports

This section allows patients to **view and download laboratory test reports**.

Steps:

1. Tap **My Reports** from the Patient Dashboard.
2. View the list of available reports with **test name and date**.
3. Tap **Download** to save a report.
4. Open or share the report when needed.

5. Use the **Back Arrow** to return.

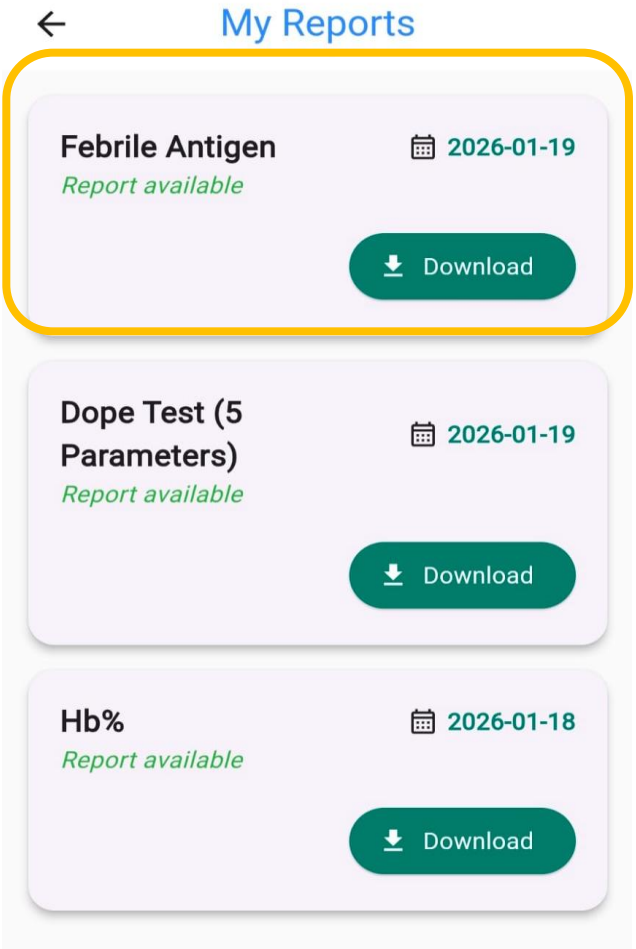

Figure-07: My Reports

3.3.4 Report Management

This section allows users to **upload medical reports and link them to prescriptions**.

Steps:

1. Tap **Upload Results / Report Management** from the dashboard.
2. Select the **linked prescription**.
3. Choose the **report type**.
4. Tap **Select File** and choose the report.
5. Tap **Upload** to submit.
6. Edit uploads within **12 hours** if needed.
7. Use the **Back Arrow** to return.

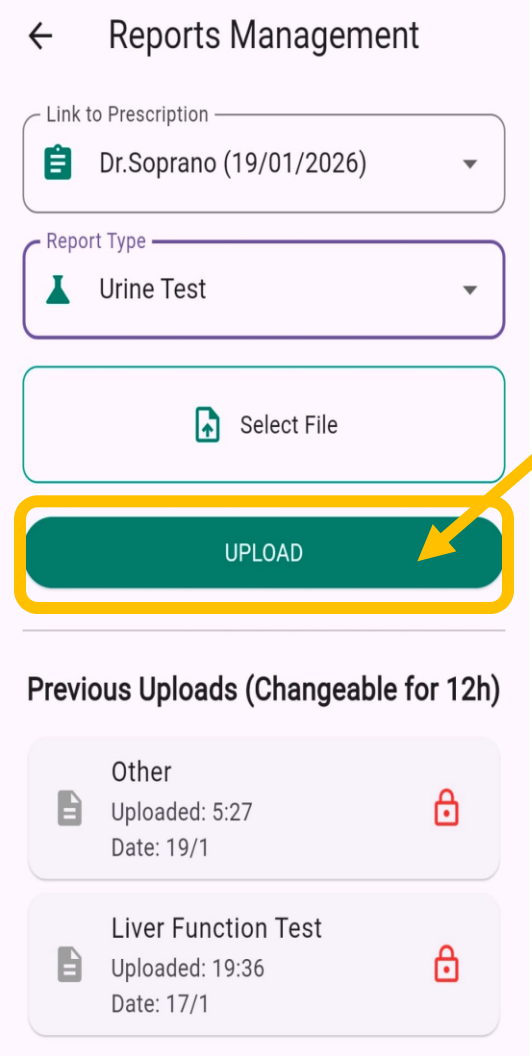

Figure-08: Report Management

3.3.5 Lab Test Availability & Costs

This section allows patients to **check available lab tests and their costs**.

Steps:

1. Tap **Lab Test Availability** from the Patient Dashboard.
2. View the list of tests with **name, fee, and availability status**.
3. Tap **Details** for available tests.
4. Unavailable tests cannot be selected.
5. Use the **Back Arrow** to return.

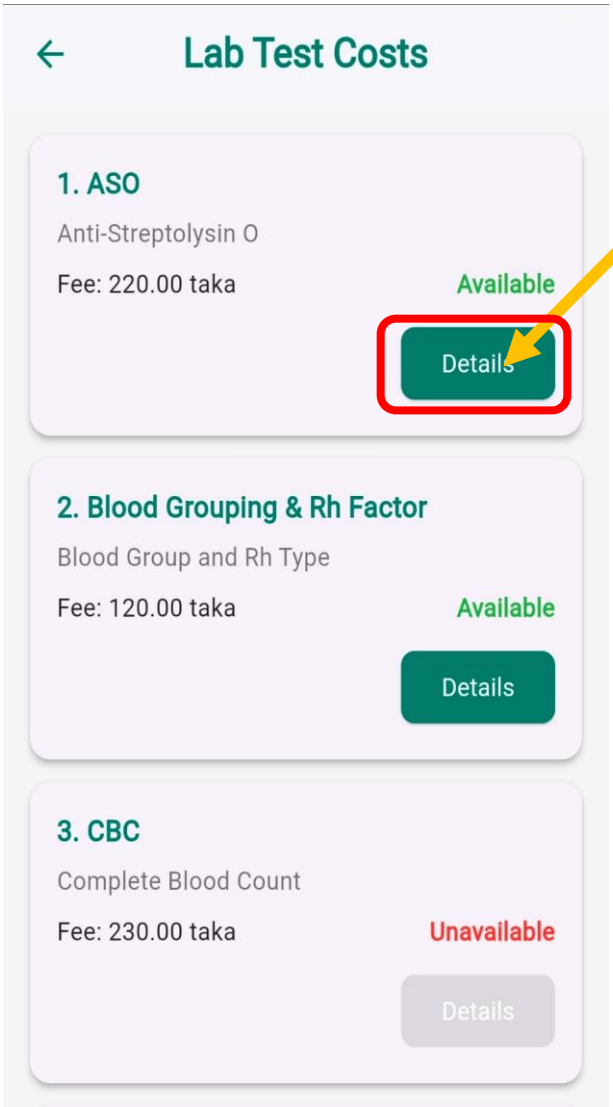

Figure-09: Lab Test Availability

3.3.6 Ambulance & Staff Contact

This section allows users to **quickly contact ambulance services and medical staff**.

Steps:

1. Tap **Ambulance & Staff Contact** from the Patient Dashboard.
2. Use the **red phone icon** to call an ambulance.
3. Scroll to view **medical staff contacts**.
4. Tap the **green phone icon** to call staff.
5. Use the **Back Arrow** to return.

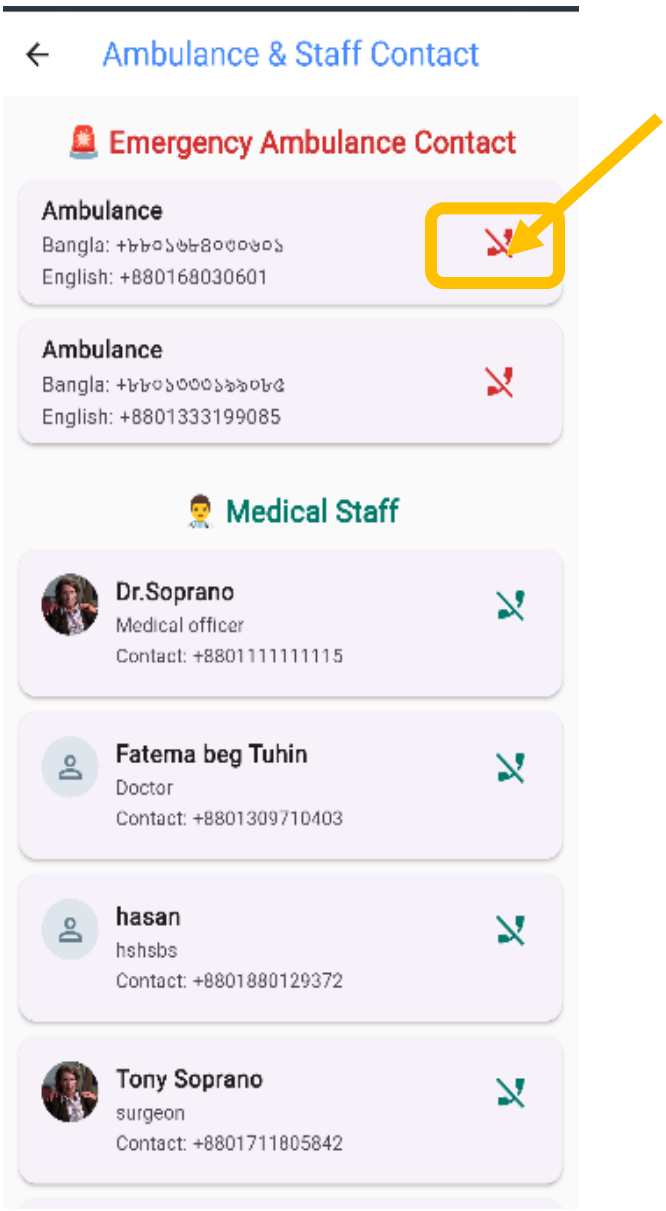

Figure-10: Ambulance & Staff.

Chapter Four: Admin

4.1 Admin Dashboard

The dashboard is the central hub for quick navigation and system status.

Step 1: View the **"Dashboard Overview"** at the top to see high-level stats like "Total Users" and "Total Stock".

Step 2: Use the **"Quick Actions"** grid to navigate to specific modules. Tap the relevant icon to open:

- **User Management** (Manage accounts).
- **Inventory** (Manage stock).
- **Roster** (Manage staff schedules).
- **Report** (View analytics).
- **History** (View logs).
- **Ambulance** (Manage vehicle services).

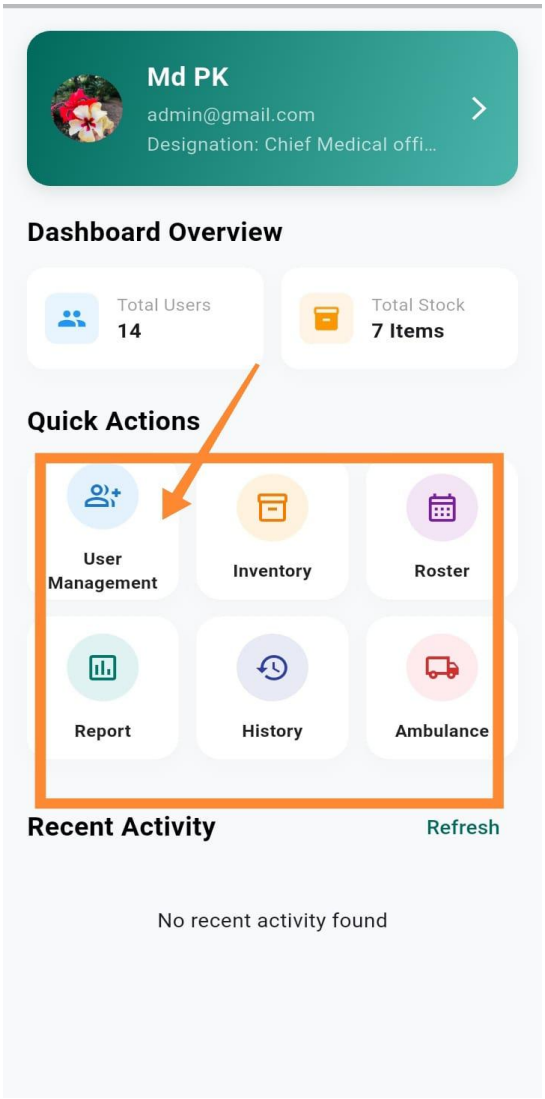

Figure-11: Admin Dashboard

4.1.1 User Management

This section allows Administrators to manage staff accounts.

Step 1: From the dashboard, select **User Management**.

Step 2: Use the search bar at the top to find a specific person.

Step 3: Switch between user roles by tapping the tabs: **Admin**, **Doctor**, or **Dispenser** to filter the list.

Step 4: To add a new user, tap the **"+ Create Account"** button at the bottom right of the screen.

Step 5: On an individual user's card, you can view their status, call them using the phone icon, or use the menu dots for more options.

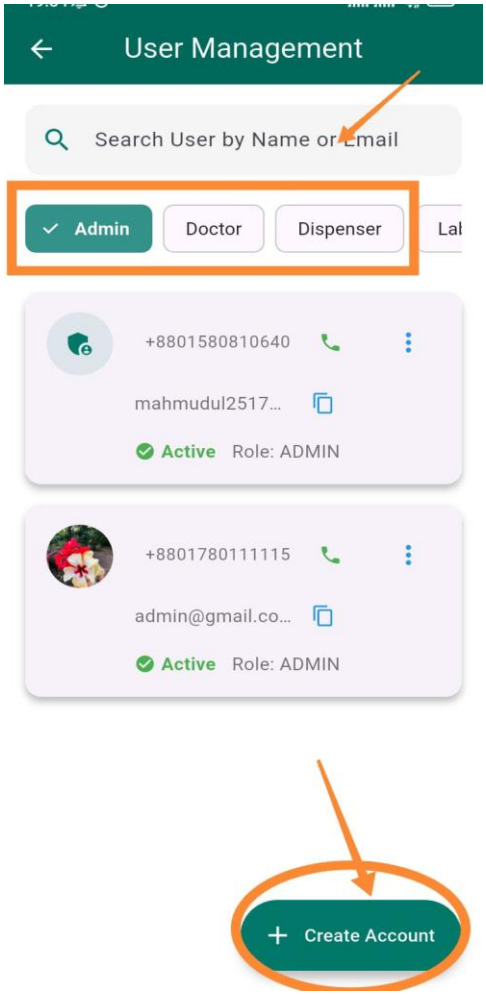

Figure-12: User management

4.1.2 Inventory Management

Use this module to track medicines and equipment.

Step 1: Access the **Inventory** page to view stock statistics like "Total Items," "In Stock," "Low Stock," and "Out of Stock".

Step 2: To organize items, tap the **"+ Add Category"** button at the top.

Step 3: To input new stock, tap the green **"Add Item"** button.

Step 4: Scroll through the "All Inventory Items" list to check specific stock levels .

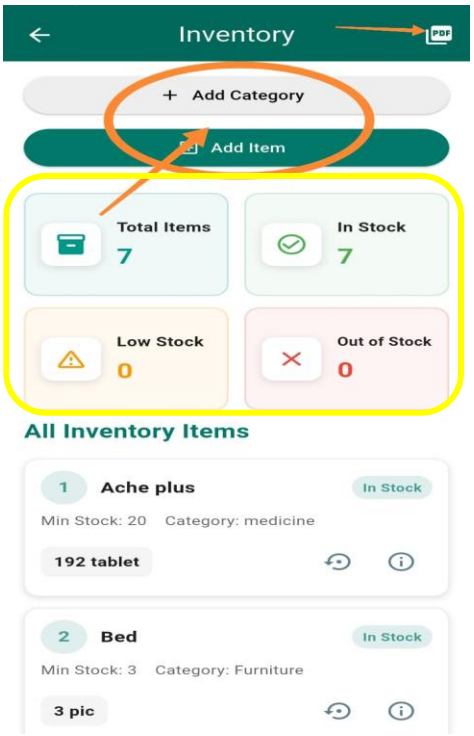

Figure-13: Inventory Management

4.1.3 Staff Rostering

This feature is used to assign shifts to Doctors, Nurses, and Staff.

Step 1: Navigate to the **Staff Rostering** screen.

Step 2: Locate the relevant table (**Doctor Table**, **Nurse Table**, or **Staff Table**).

Step 3: Assign shifts by tapping the checkboxes under the time columns (Morning, Evening, Night) next to a staff member's name.

Step 4: To add a new person to the roster, tap **"+ Add Staff"**.

Step 5: To remove a staff member from the list, tap the red **minus (-)** button.

Step 6: Once shifts are assigned, tap the **"Save Roster"** button to confirm changes.

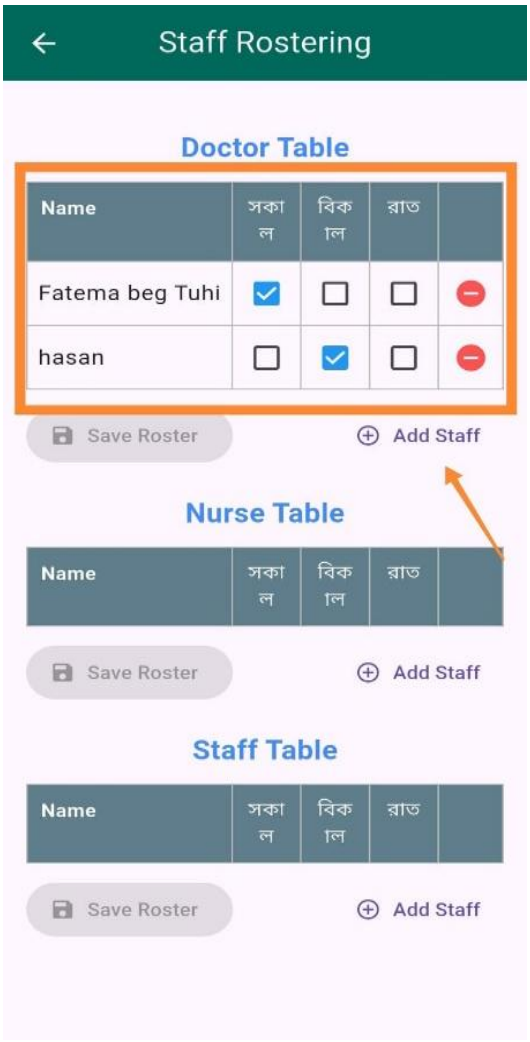

Figure-14: Staff Rostering

4.1.4 Reports & Analytics

This module provides insights into hospital operations and stock usage.

Step 1: Open the **Reports & Analytics** section.

Step 2: View **"Key Metrics"** cards to see summaries for Total Patients, Outpatients, Medicines Dispensed, and Prescriptions.

Step 3: Scroll down to view the **"Doctor-Patient Ratio"** to monitor staffing efficiency.

Step 4: To export data, scroll to the **"Stock Report"** section.

Step 5: Select a date range by tapping **"From date"** and **"To date"**.

Step 6: Click the red **"Export as PDF"** button to download the report for the selected period.

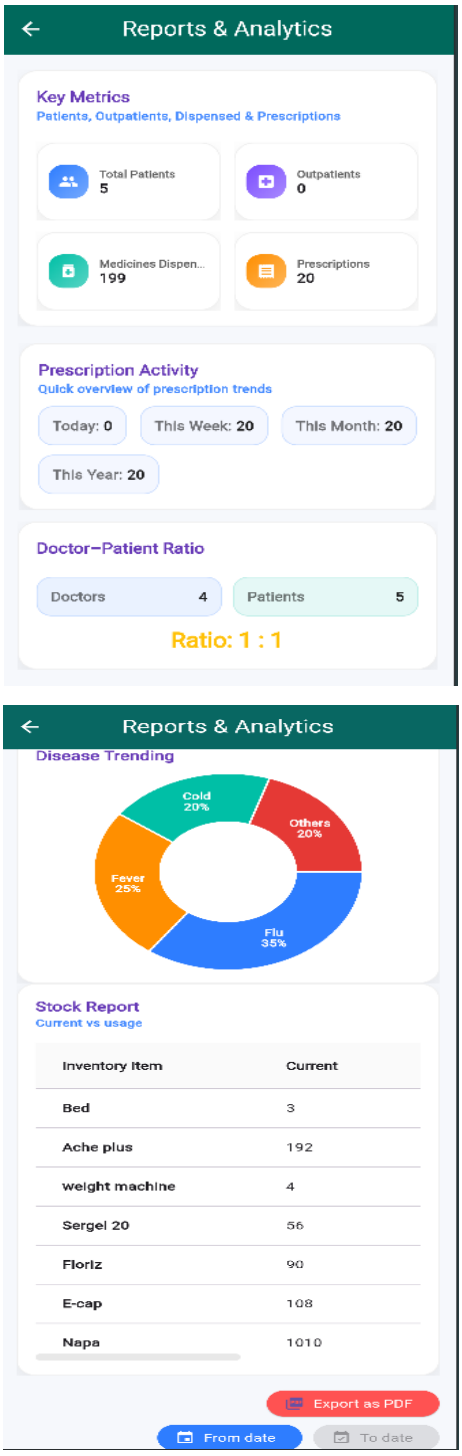

Figure-15: Report & analytics

4.1.5 System History

Use this to track all activities and changes within the application.

Step 1: Navigate to the **History** screen.

Step 2: Toggle between the tabs at the top:

Inventory Logs: To see stock changes (e.g., "Stock In" or "Stock Out").

General Logs: To see administrative actions.

Step 3: Review the list to see who performed an action and when ("By Fatama beg Tuhin • 1 days ago").

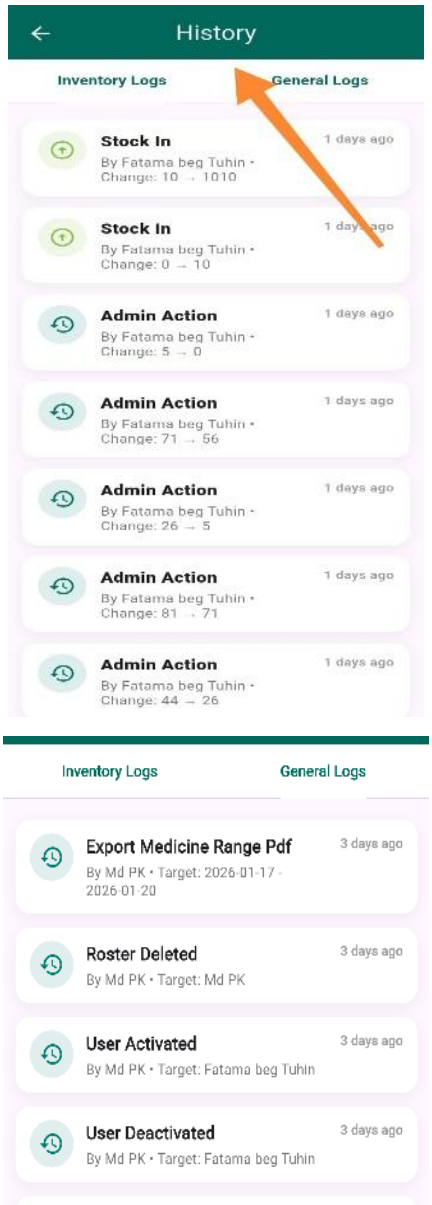

Figure-16: System History

4.1.6 Ambulance Management

This section allows admins to **manage ambulance contact information**.

Steps:

1. Tap **Ambulance** from the Admin Dashboard.
2. View the list of ambulance contacts.
3. Tap the **edit icon** to update a contact.
4. Tap + to add a new ambulance number.
5. Save changes and return using the **Back Arrow**.

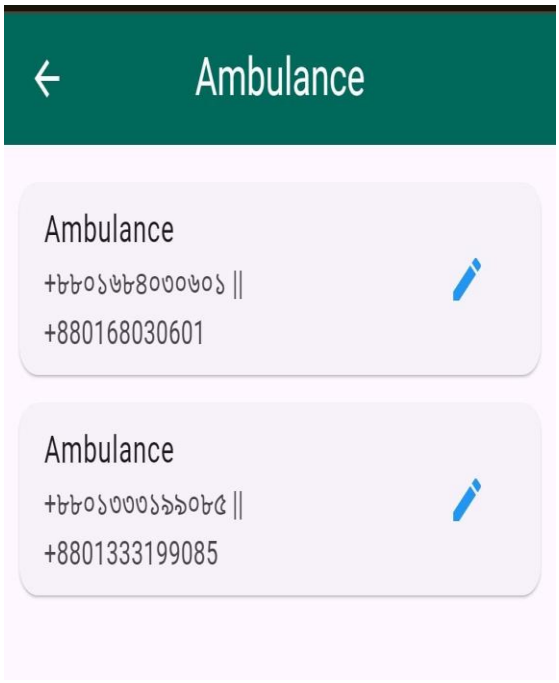

Figure-17: Ambulance Management

Chapter Five: Doctor

5.1 Doctor Dashboard

Doctors have a specialized view to track their activity and patients.

Step 1: View the **"Doctor Profile"** dashboard to see activity stats like "Last Month Prescriptions" and "Last Week Prescriptions".

Step 2: Check the **"Recent Activity"** feed to see a log of actions, such as "Prescription created".

Step 3: Use the bottom navigation bar to switch between main modules: **Home**, **Patients**, **Review Reports**, and **Profile**.

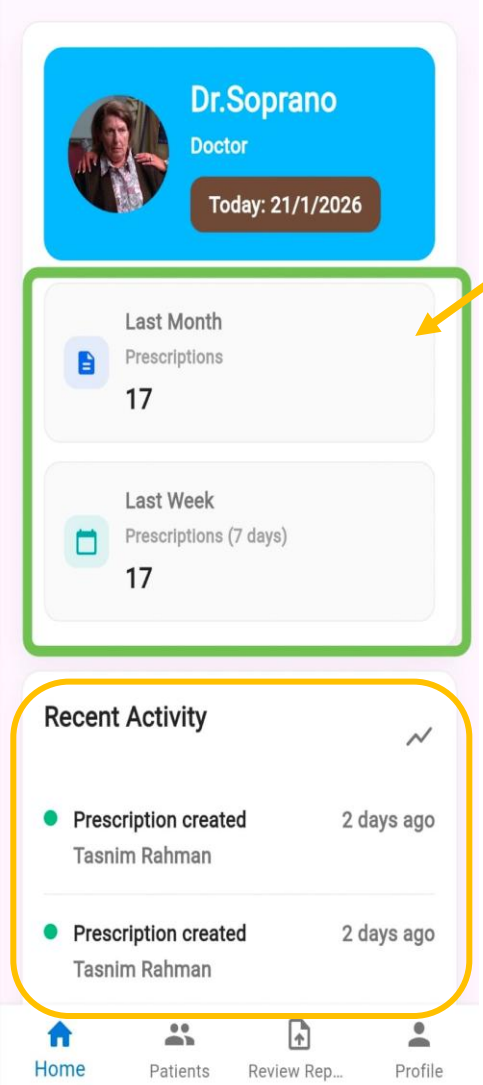

Figure-18: Doctor Dashboard

5.2 Searching Patient Records

Use this feature to locate a patient before creating a prescription.

Step 1: Navigate to the **"Patients Record"** screen.

Step 2: Tap the search bar labeled **"Search by phone number..."** and enter the patient's mobile number.

Step 3: If the patient is new or you wish to start a new action, tap the floating **Plus (+)** button at the bottom right then to create prescriptions.

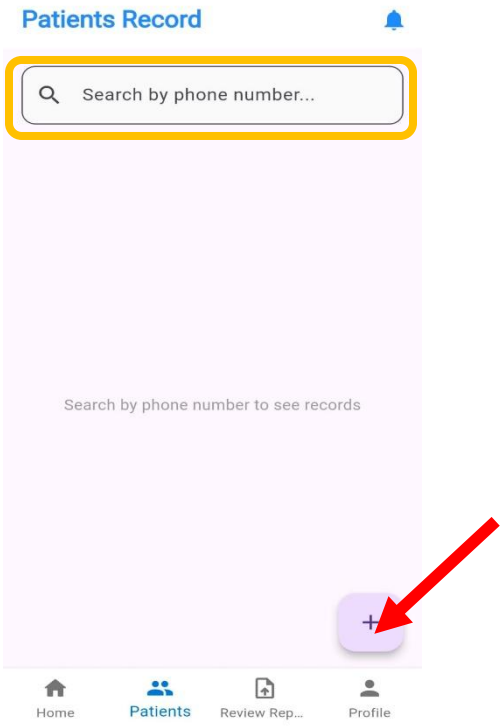

Figure-19: Patient Records

5.2.1 Creating a Prescription

This process allows doctors to generate digital prescriptions for patients.

Step 1: On the **Prescription** form, verify the **"Patient Information"** (Name, Number, Age) and select the **Gender** (M or F).

Step 2: Enter the clinical observations in the provided text fields:

1. **C/C** (Chief Complaint).
2. **O/E** (On Examination).
3. **Adv** (Advice).
4. **Inv** (Investigations).

Step 3: Scroll down to the **"Rx"** section to add medication.

1. Type the name in **"Medication Name"**.
2. Select **"Dosage Times"** by checking the boxes (e.g., Morning, Noon, Night).
3. Select the timing (e.g., Before or After food) and duration (Days or Months).

Step 4: Tap the green **"+ Add Medicine"** button to include the drug in the list.

Step 5: Once finished, tap the red **"Save"** button to finalize the prescription, or **"Clear"** to reset the form.

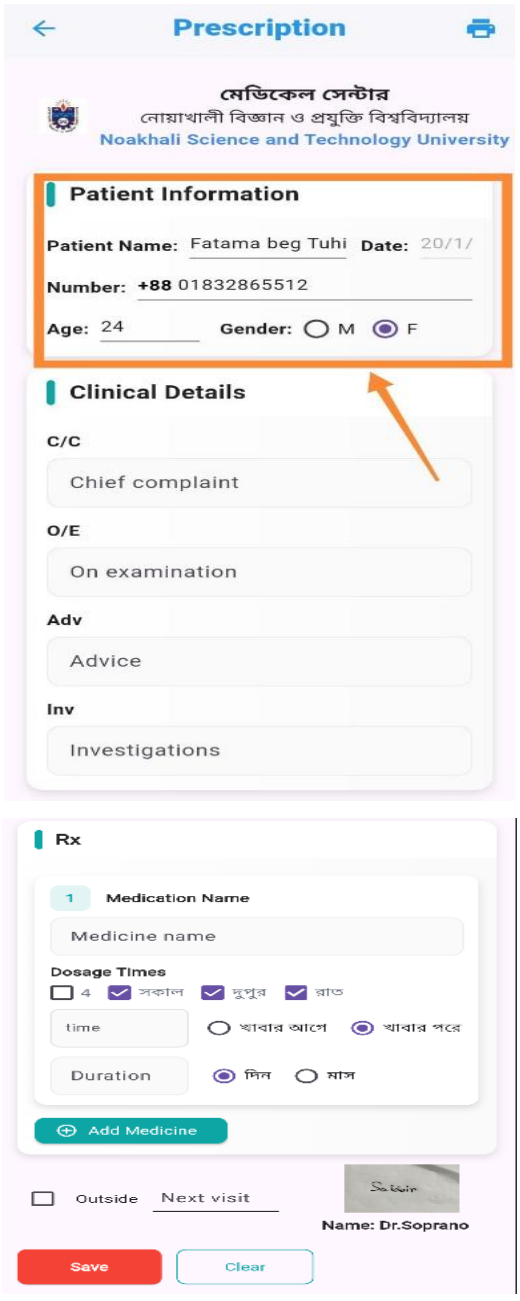

Figure-20: Prescription

5.3 Review Test Reports

This section allows doctors to **view and review laboratory test reports**.

Steps:

1. Tap **Review Reports** from the Doctor Dashboard.
2. View the list of submitted reports.
3. Tap a report to open the **PDF**.
4. Reviewed reports are marked as **Reviewed**.
5. Then update the prescriptions if needed
6. Use the bottom menu to navigate to other sections.

Figure-21: Review Test Reports

5.4 Doctor Profile Management

This section allows doctors to **view and manage profile details and digital signature**.

Steps:

1. Tap **Profile** from the Doctor Dashboard.
2. View personal and professional details.
3. Tap the **camera icon** to update profile photo.
4. Upload or update the **digital signature**.
5. Use the **Back Arrow** to return or Logout.

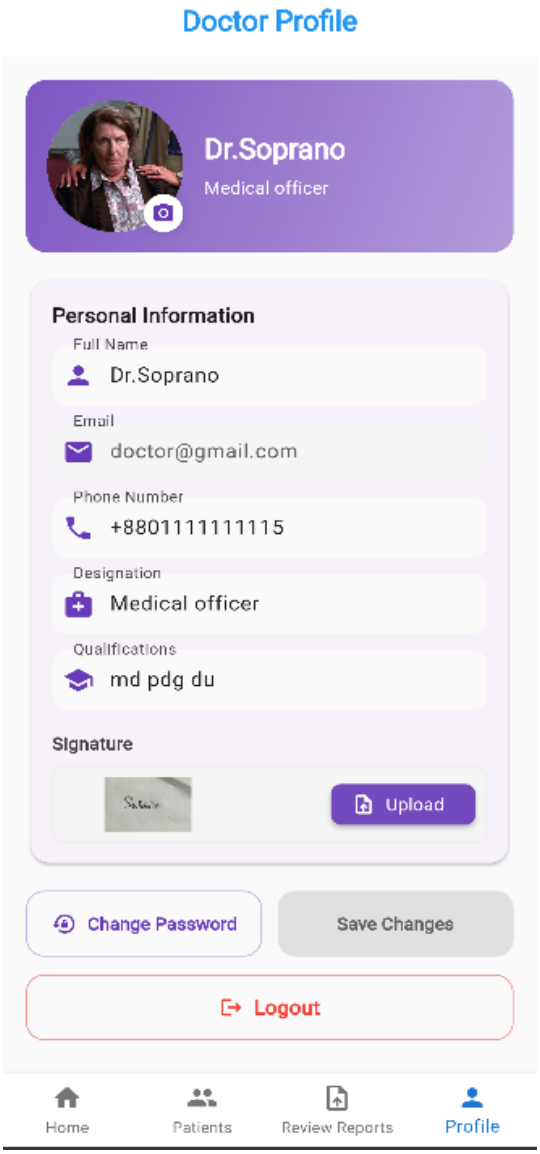

Figure-22: Doctor Profile

Chapter Six: Lab Test

6.1 Lab Dashboard

This module allows lab staff to manage daily test operations, view pending requests, and upload completed reports.

Step 1: Log in using your **Lab Tester account**.

Step 2: On the home screen, review the **Two Day Overview**, which shows the number of **Pending** and **Submitted** tests for today and yesterday.

Step 3: Scroll down to see the **Last 10 Test History** for quick access to recent activities.

Step 4: Use the bottom navigation bar to move between modules: **Home**, **Upload**, **Manage Test**, and **Profile**.

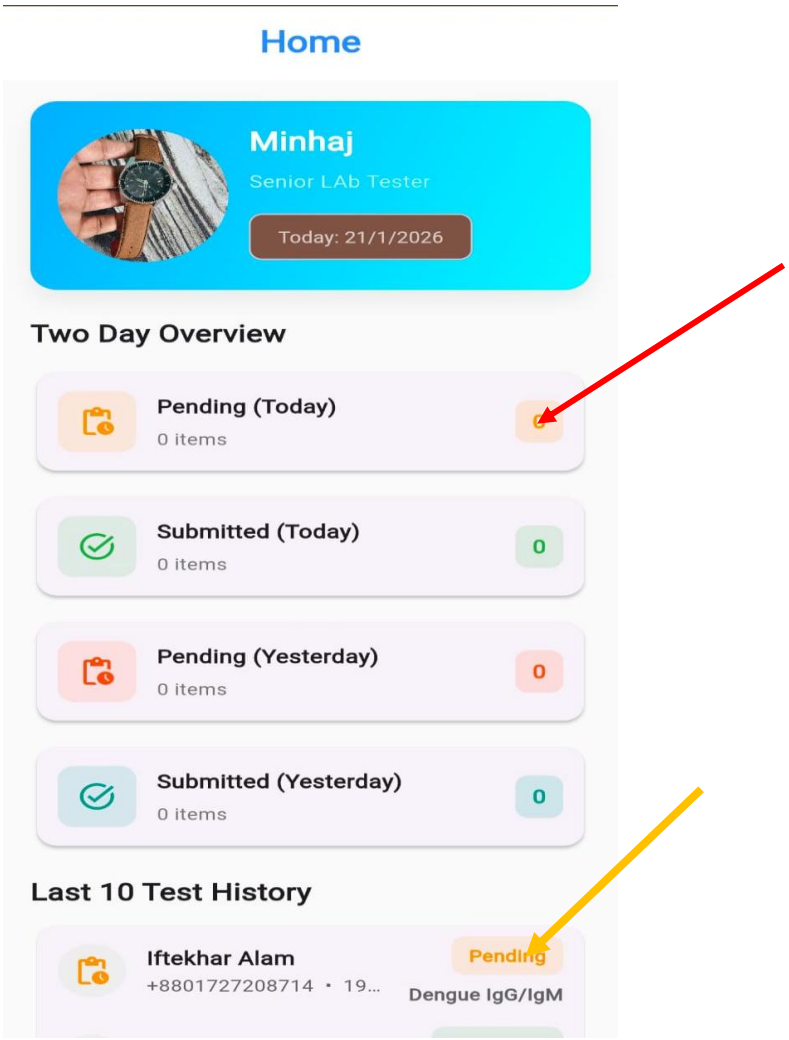

Figure-23: Lab dashboard

6.2. Managing Lab Test

Lab users can manage all incoming test requests from doctors or patients.

Step 1: Tap the **"Manage Test"** tab from the bottom navigation bar.

Step 2: Check the list of all **Pending** tests.

Step 3: Tap a test record to view details such as patient name, test type, and date.

Step 4: After conducting the test, fill in the result values and any necessary remarks.

Step 5: Tap **"Submit Result"** or **"Save Report"** to confirm.

Step 6: Completed tests will move from **Pending** to **Submitted** status and become available.

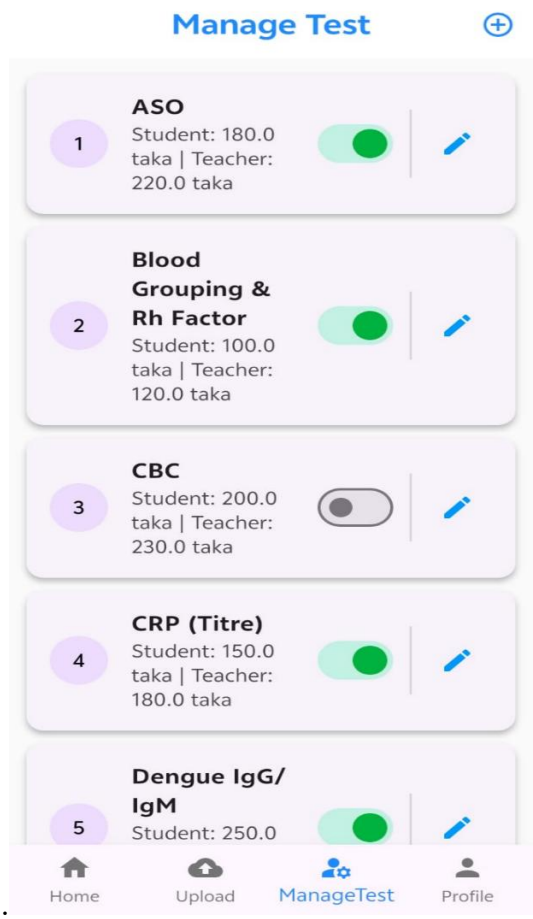

Figure-24 : Managing lab test

6.4 Uploading Report

This feature allows lab testers to upload digital copies of laboratory results.

Step 1: Open the **"Upload"** tab from the bottom navigation bar.

Step 2: Select the patient or prescription to which the report belongs.

Step 3: Tap **"Choose File"** or **"Upload Report."**

Step 4: Browse your device and select the corresponding PDF or image file.

Step 5: Confirm the report name, test date, and file type.

Step 6: Tap **"Submit"** to upload the report. It will then be visible to the relevant doctor and the patient.

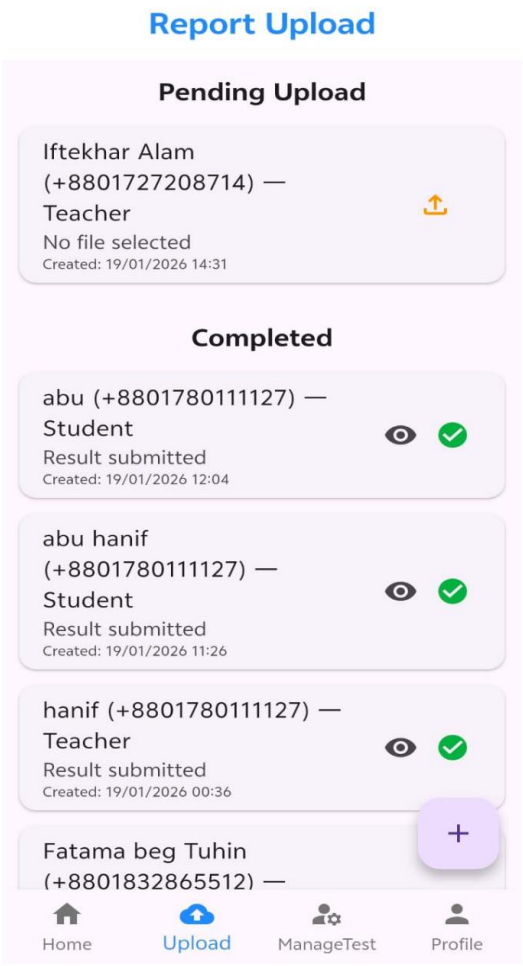

Figure-25: Uploading Report

6.5 Lab Test Profile

This section allows laboratory staff to **view and manage their profile information**.

Steps:

1. Tap **Profile** from the bottom navigation bar.
2. View personal and professional details such as **Name, Email, Phone, Qualification, and Designation**.
3. Tap the **edit icon** to update profile information if allowed.
4. Use **Change Password** to update account security.
5. Navigate to other sections using the bottom menu.

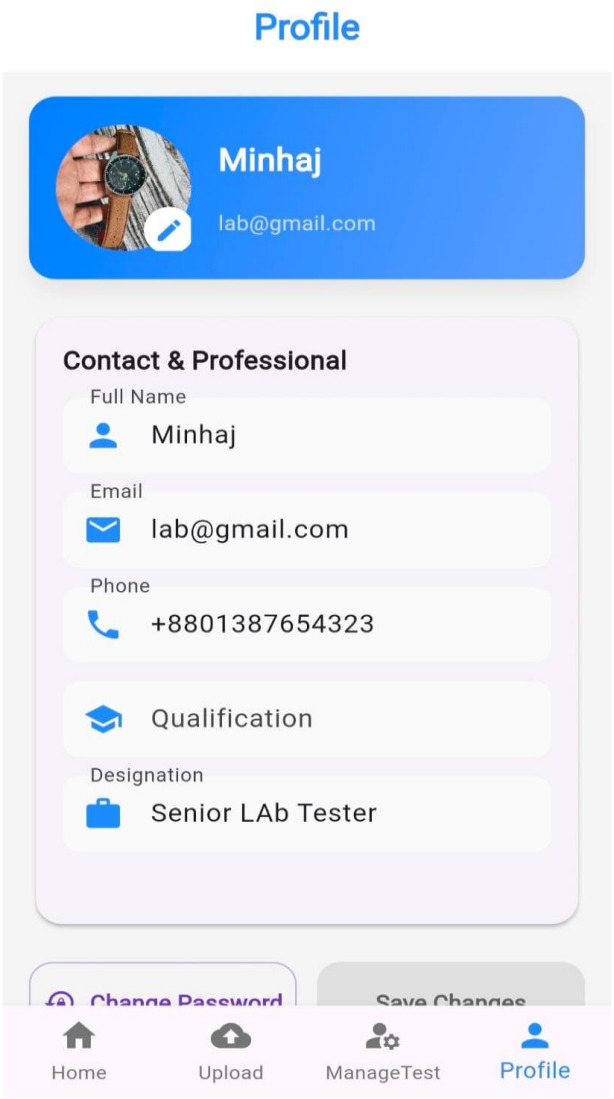

Figure-26: Lab Test Profile

Chapter Seven: Dispenser

7.1 Dispensary Dashboard Overview

This module helps dispensary staff manage prescriptions and stock.

Step 1: Log in using your **Dispenser** account. The dashboard will appear.

Step 2: At the top, view your profile card and quick summary, including:

- **Pending Prescriptions**
- **Dispensed Today**

Step 3: Scroll down to see **Recent History (Last 7 Days)**, which lists recent prescriptions and their status.

Step 4: Use the bottom navigation bar to switch between **Home**, **Dispense**, **Inventory**, and **Profile**.

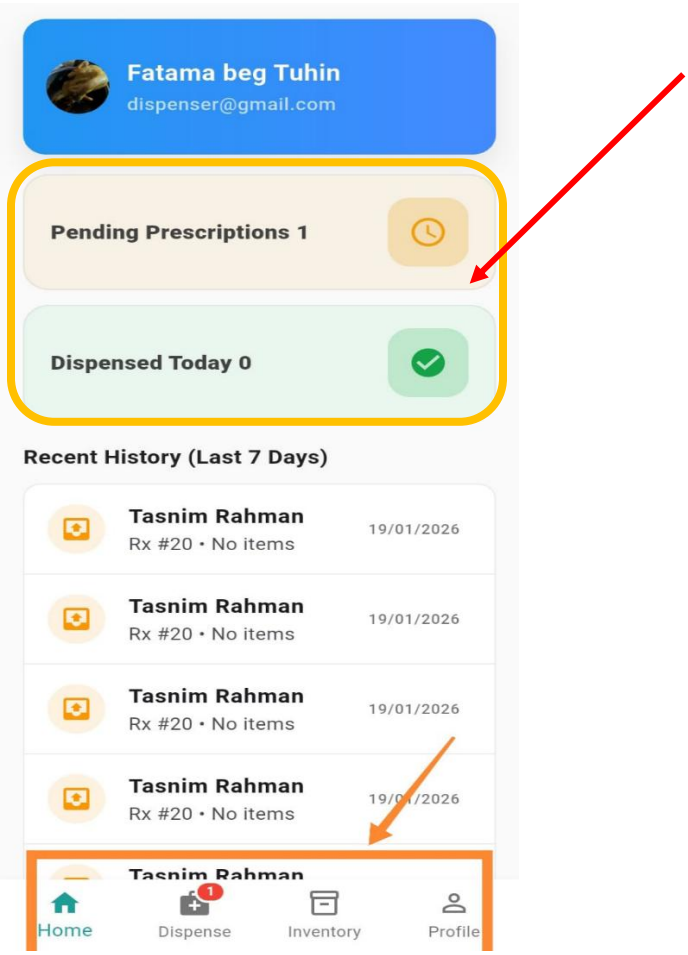

Figure 27 : Dispensary Dashboard

7.2 Dispensing Medicine

Dispensary users fulfill medicine requests based on doctors' prescriptions.

Step 1: Tap the **"Dispense"** tab from the bottom navigation bar.

Step 2: Review the list of **Pending Prescriptions.**

Step 3: Tap a prescription card to see full details, including patient information and the list of medicines.

Step 4: Check each medicine in the store.

- If all items are available, issue them to the patient.
- If some medicines are not available, dispense only what you have.

Step 5: Tap **"Dispense"** to mark the prescription as completed, or **"Partial Dispense"** if only part of the prescription was supplied.

Step 6: The prescription will now appear in **Recent History** and in the **Stock History** section with updated quantities.

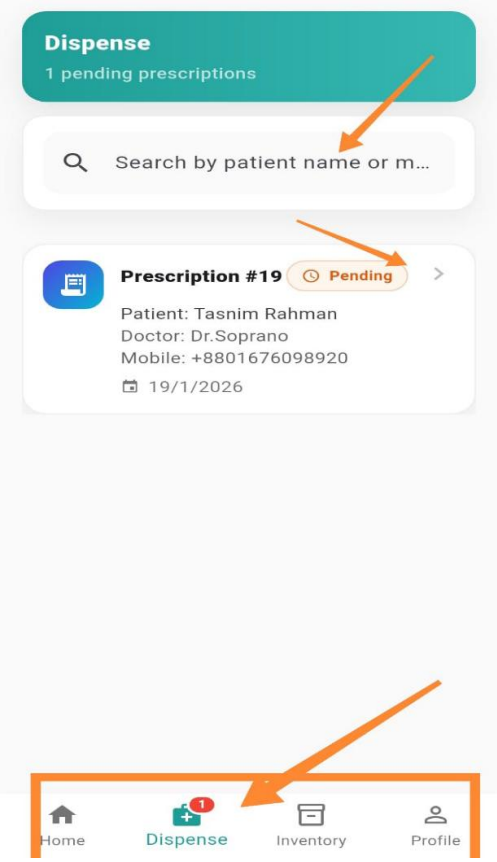

Figure-28: Dispensing Medicine

7.3 Inventory Restock

This feature helps dispensary staff manage and review medicine stock.

Step 1: Go to the **"Inventory"** tab from the bottom navigation bar.

Step 2: Check the **Low Stock Alert** area at the top to see how many items are below the minimum level.

Step 3: Scroll through the list of medicines. For any item you need to update, tap the **"+ Restock"** button.

Step 4: Enter the quantity being added and confirm.

Step 5: To monitor changes, scroll down to the **"Stock History (Last 1 Month)"** section, which shows each **ADD_STOCK** and **DISPENSE** action with old and new quantities.

Step 6: Use this history for stock planning, auditing, and reporting.

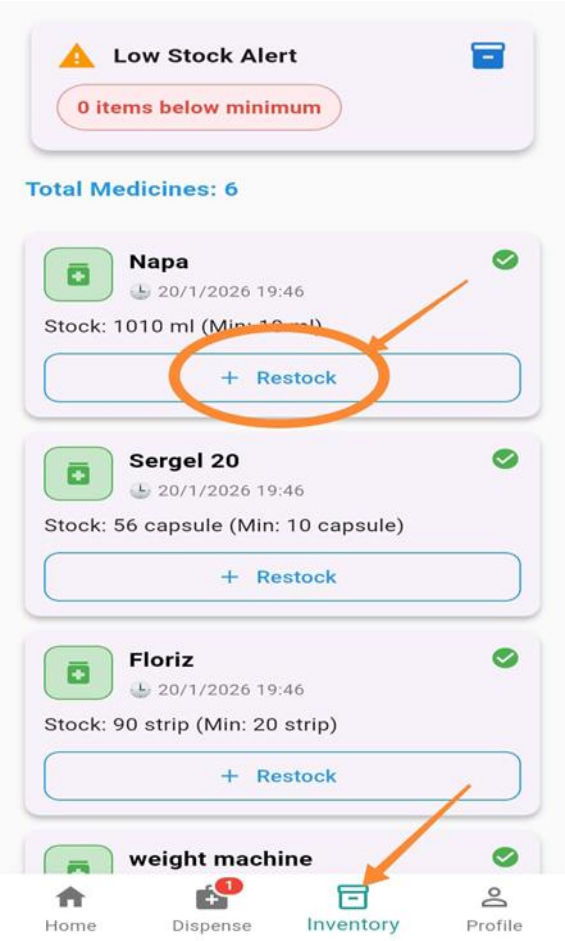

Figure-29:Inventory restock

7.4 Dispenser Profile Management

Dispensary users can manage their own profile and security.

Step 1: Tap the **"Profile"** tab in the bottom navigation bar.

Step 2: Review your **Name**, **Email**, **Designation**, **Phone**, and **Qualification** fields.

Step 3: If needed, update your information and tap **"Save Changes."**

Step 4: To update your password, tap **"Change Password"** and follow the prompts.

Step 5: To securely exit the application, tap the red **"Logout"** button.

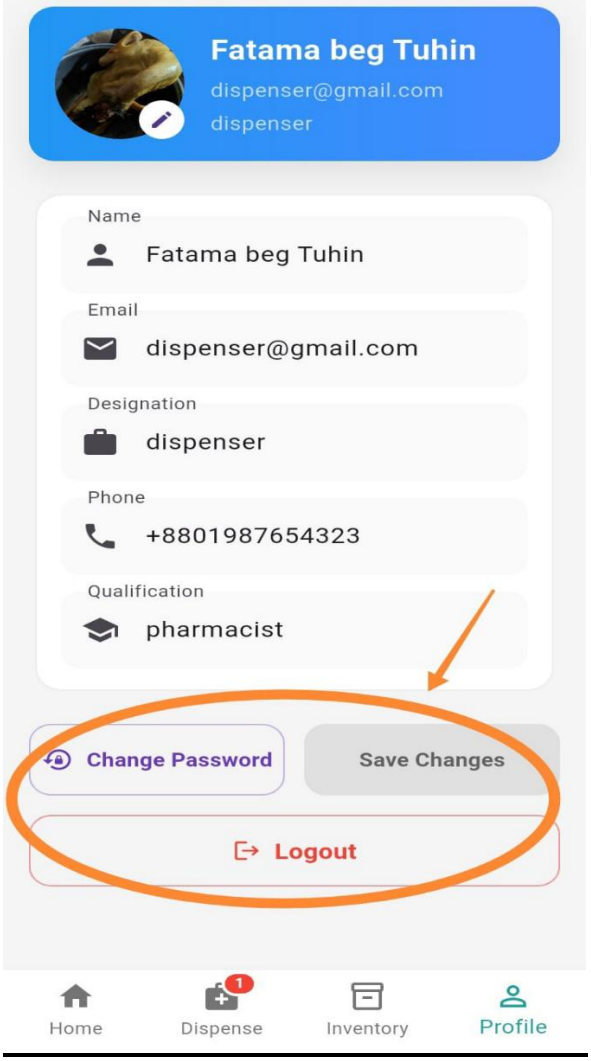

Figure-30: Dispenser Profile Management

Chapter Eight: System Requirements

To use the Dishari application smoothly, users must ensure the following requirements are met:

- An **Android smartphone** or compatible device
- **Active internet connection** (Wi-Fi or mobile data)
- Valid **NSTU institutional email** for registration
- Updated version of the Dishari application

Chapter Nine: User Roles and Permissions

Dishari uses **role-based access control** to ensure system security and proper operation.

User Role	Permissions
Admin	Manage users, inventory, staff roster, reports, ambulance services
Doctor	Search patients, create prescriptions, review reports, manage profile
Patient	View prescriptions, reports, lab tests, upload documents
Lab	Manage lab tests, upload reports, view test history
Dispensary	Dispense medicines, manage inventory, view stock history

Chapter Ten: Security and Privacy

Dishari ensures user data safety through the following measures:

- Secure **login authentication**
- **Password-protected accounts**
- **Role-based access** to restrict unauthorized actions
- Medical records are accessible **only to authorized users**
- Uploaded reports are **locked after a fixed time** to prevent misuse

Chapter Eleven: Common Errors and Troubleshooting

Users may face minor issues during usage. Common problems and solutions include:

- **Invalid login credentials** → Check email and password
- **No internet connection** → Enable Wi-Fi or mobile data
- **File upload failed** → Ensure correct file format and size
- **Page not loading** → Restart the app and try again

Chapter Twelve: Logout Procedure

To safely exit the application:

1. Go to the **Profile** section.
2. Tap the **Logout** button.
3. Confirm logout to end the session securely.

Chapter Thirteen: Help and Support

For assistance or system-related issues:

- Contact the **system administrator**
- Reach out to **medical staff** using the Ambulance & Staff section
- Use provided emergency contact numbers for urgent cases

Chapter Fourteen: Conclusion

Dishari is a **secure and efficient digital healthcare system** designed for Noakhali Science and Technology University.

It simplifies medical services by integrating **patients, doctors, labs, dispensaries, and administrators** into a single platform.

The system reduces paperwork, improves accuracy, and ensures timely medical support for all users.

The End