

GPLink Cardio™

TESTING GUIDE

System Information

Application:	GPLink Cardio™ - GP-Cardiologist Consultation Portal
Version:	1.0
Developer:	DRAHMADSYAHID © 2025
Testing Date:	November 2025
Backend URL:	http://127.0.0.1:8000
Frontend URL:	http://localhost:8501
Database:	MongoDB - gplink_db

Test 1: Dynamic NSR Field ■ (Critical)

Objective: Verify NSR field appears dynamically based on role selection

Steps:

1. Navigate to "Register New Doctor" page
2. Observe the Role dropdown
3. Select "GP Clinician" from dropdown → Expected: NSR field is NOT visible
4. Select "Cardiologist" from dropdown → Expected: NSR field appears instantly
5. Toggle between roles multiple times → Expected: Field shows/hides smoothly

Status: ■ Pass ■ Fail | **Notes:** _____

Test 2: GP Clinician Registration ■

Objective: Register a GP Clinician without NSR requirement

Field	Test Data
Full Name	Dr. Ahmad bin Ali
Email	ahmad@clinic.com
Role	GP Clinician
Hospital/Clinic	Klinik Kesihatan Bandar
IC/Passport	900101-01-1234
MMC No.	MMC12345
NSR No.	(should not appear)

Expected: Success message '■ Doctor registered successfully!'

Status: ■ Pass ■ Fail | **Notes:** _____

Test 3: Cardiologist Registration with NSR ■

Objective: Register Cardiologist with mandatory NSR validation

Field	Test Data
Full Name	Dr. Sarah Lim
Email	sarah@hospital.com
Role	Cardiologist
Hospital/Clinic	Hospital Jantung Negara
IC/Passport	850505-05-5678
MMC No.	MMC67890
NSR No.	NSR2024001 (REQUIRED)

Validation: Try registering WITHOUT NSR → Should show error

Status: ☐ Pass ☐ Fail | Notes: _____

Test 4: Create New Consultation ■

Objective: GP creates consultation with patient details and medical images

Category	Details
GP Email	ahmad@clinic.com
Patient Name	Ahmad Ismail
IC Number	700808-01-5678
Age	55
Gender	Male
Symptoms	Chest pain radiating to left arm, shortness of breath
Blood Pressure	150/95
Heart Rate	95 bpm
Temperature	37.2°C
SpO2	96%
Respiratory Rate	20
ECG Image	Upload any .jpg/.png/.pdf
X-Ray Image	Upload any .jpg/.png/.pdf

Expected: Success message, consultation ID generated

Status: ■ Pass ■ Fail | **Notes:** _____

Test 5: View Consultation Details ■

Objective: Verify all consultation data displays correctly

Verification Checklist:

- GP Clinician Info: Name, Hospital, MMC No.
- Patient Info: Name, IC, Age, Gender
- Clinical Info: Symptoms, all vital signs
- Medical Images: ECG and X-Ray images display

Status: ■ Pass ■ Fail | **Notes:** _____

Test 6: Generate Referral Letter PDF ■ (Critical)

Objective: Create and download professional referral letter

Referral Reason Example:

"Patient presenting with acute chest pain and dyspnea. ECG shows ST elevation in leads II, III, aVF. Require urgent cardiology review for possible acute coronary syndrome. Troponin levels elevated at 2.5 ng/mL."

PDF Content Verification:

- Header: "REFERRAL LETTER TO CARDIOLOGIST"
- GPLink Cardio™ branding visible
- Current date displayed
- GP details (name, hospital, MMC, email)
- Patient information table
- Vital signs table
- Referral reason text
- Professional formatting
- Footer: "DRAHMADSYAHID © 2025"
- No layout issues

Status: ■ Pass ■ Fail | **Notes:** _____

Test 7: Cardiologist Response

Field	Test Data
Cardiologist Email	sarah@hospital.com
Diagnosis	Acute STEMI - ST Elevation Myocardial Infarction
Recommendations	Immediate admission to CCU, cardiac catheterization within 90 minutes, dual antiplatelet therapy
Notes	Patient requires urgent PCI. Advise immediate transfer to cardiac cath lab. High risk.

Verification: Go to View Consultations and verify response appears
Status: ☐ Pass ☐ Fail | **Notes:** _____

Test 8: Statistics Dashboard

Verify Metrics Display:
☐ Total Consultations count
☐ Pending consultations
☐ Reviewed consultations
☐ Completed consultations
☐ Color indicators visible
Status: ☐ Pass ☐ Fail | **Notes:** _____

Test 9: Branding & UI Consistency

Verify on ALL pages:
☐ Page title: "GPLink Cardio™"
☐ Subtitle: "GP-Cardiologist Consultation Portal"
☐ All references say "GP Clinician" (not "Clinic Doctor")
☐ Theme color #9A7D61 visible in headers
☐ Copyright footer "DRAHMADSYAHID © 2025" on Home
☐ Navigation menu shows all 6 pages
☐ Professional appearance
Status: ☐ Pass ☐ Fail | **Notes:** _____

Test 10: Error Handling

A. Empty Form Submission: Leave all fields empty → Should show warning
B. Invalid Email: Enter "notanemail" → Should show validation error
C. Backend Connection: Stop backend → Should show connection error
Status: ☐ Pass ☐ Fail | **Notes:** _____

Test Summary

#	Test Name	Priority	Status
1	Dynamic NSR Field	Critical	■
2	GP Registration	High	■
3	Cardiologist Registration	High	■
4	Create Consultation	High	■
5	View Consultation	High	■
6	Generate PDF	Critical	■
7	Cardiologist Response	Medium	■
8	Statistics	Low	■
9	Branding	Medium	■
10	Error Handling	High	■

Sign-Off

Tester Name: _____

Date Tested: _____

Overall Result: ■ All Tests Passed ■ Issues Found

Recommendation: ■ Ready for Production ■ Requires Fixes

Additional Comments: