

Malaria Check

Capstone 02 · MedTech · Talodabi Academy

1 · Project overview

You are designing a **symptom checklist** that ends in a clear next step. You are **not** replacing a doctor. Strong disclaimers and Low / Medium / High results matter more than adding more symptoms.

Deliverable	Full mobile MVP in Figma (not code)
Platform	Mobile app · Android-first · portrait
Screens	10 screens + 1 unhappy path (11 frames)
Features	3 core features
Bottom navigation	Bottom navigation with 3 items: Check · History · Profile
Prototype	4 linked flows

Build order: Auth (screens 1–4) → nav tabs (5–7) → core flow (8–10) → unhappy path → link prototypes.

2 · Problem & primary user

Millions of Nigerians self-medicate for malaria without confirming their symptoms actually match. People take anti-malarials for typhoid, buy the wrong drug, or delay real treatment. There is no simple, accessible tool that helps someone check their symptoms before heading to a pharmacy.

Primary user

"Emeka, a 28-year-old teacher in Enugu who gets fever regularly, never knows if it is malaria or something else, and self-medicates without any guidance."

Geographic scope: National-level

3 · Goals

User goal: Quickly check if his symptoms match malaria and understand what to do next.

Business goal: Reduce dangerous self-medication and connect users to verified clinics or telemedicine services.

Success: In a quick test, someone finishes a check, understands their **risk level**, and knows whether to **stay home or go to a clinic**.

4 • Market context

QUESTION	ANSWER
Who pays	Emeka will not pay for symptom checks. Payers are more likely pharmacies, HMOs, or public health programs funding triage tools (assumption).
Why not WhatsApp	People already Google symptoms or ask in family WhatsApp groups. That gives scary, conflicting answers. A structured checklist with a clear next step is safer than chat.
Design focus	You are designing education and triage , not diagnosis. Strong disclaimers, Low/Medium/High with plain English, and “go to clinic” beats feature depth.

Competitors to check:

- **Chemist advice + self-medication** (default)
- **Medi-chat, MedCare NG** (AI symptom check + care routing in Nigeria)
- **Febra Diagnostica** (febrile illness tool; more for health workers than consumers)
- **Google / random health blogs** (not guided, not Nigeria-first)

5 • Validate before you design

Interview 3–5 people who match your primary user. Update this brief if interviews contradict it. Do not start hi-fi until you complete the confirmation below.

FIELD	YOUR ANSWER
Validated user (name, age, city)	
Problem in one sentence	
One interview quote	
Success metric for your test	
Primary colour and tone	
One competitor you checked	

Interview prompts

- "Walk me through the last time this happened."
- "What did you use instead? WhatsApp, paper, or nothing?"
- "What would make you trust this on a cheap Android phone?"
- "What would stop you from using this every week?"

6 · Features & scope

v1 · three features

1. Symptom checker: user selects symptoms from a simple list (fever, chills, headache, vomiting, body pain)
2. Risk result: Low, Medium, or High risk with a plain-English explanation
3. Next step: clear advice: rest at home, visit a clinic, or go to a hospital now

Out of scope

- Diagnosis or prescriptions
- Lab booking or telemedicine chat
- Insurance or pharmacy checkout

7 · Screens

Design every row in wireframe, high-fidelity UI, and prototype (where the flow applies).

#	LAYER	SCREEN	WHAT TO SHOW
1	Auth	Splash Screen	App logo, name, and tagline on a clean background.
2	Auth	Onboarding (1 screen)	Explain what the app does and that it is not a replacement for a doctor. Include a 'Start Check' button.
3	Auth	Sign Up Screen	Name, age, and phone number. No password needed. Use a 4-digit PIN.
4	Auth	Sign In Screen	Phone number and PIN to return to previous checks.
5	App shell	Check (tab)	Start Check button and last check date. Show bottom nav with Check active.
6	App shell	History (tab)	List of past symptom checks with date and risk level. Empty state if none.
7	App shell	Profile (tab)	Name, age, phone, and disclaimer link. Show bottom nav with Profile active.
8	Core flow	Symptom checker	Symptom cards selected. Check Now enabled. Show bottom nav on post-sign-in screens.
9	Core flow	Risk result	Low / Medium / High with plain explanation. Feature 2. Show bottom nav on post-sign-in screens.
10	Core flow	Next steps	Advice and nearest clinic CTA. Feature 3 guidance. Show bottom nav on post-sign-in screens.

8 · Prototype flows

Link these in Figma. Examiners should click through without your voice-over.

Flow 1 · App entry

Splash → Onboarding → Sign Up or Sign In → first main tab

Flow 2 · Core task (all three features)

Sign In → Check tab → Symptom checker → Risk result → Next steps

Core flow screens: Symptom checker · Risk result · Next steps

Flow 3 · Navigation

Link every nav tab so examiners can tap each bottom nav item. Tabs: Bottom navigation with 3 items: Check · History · Profile

Flow 4 · Unhappy path

Trigger the unhappy path edge case and link to that screen.

9 · Unhappy path

Design this as its own screen state (frame 11):

User selects no symptoms and taps 'Check Now'. Show a message: 'Please select at least one symptom to continue.'

Link in **Flow 4**.

10 · Design system

RULE	DETAIL
Colour	You choose. Keep it simple and readable.
Type	You choose. Keep body text easy to read on a phone.
Tone	Design for your user, not for a tech audience.

Reuse on every screen:

- Primary button (active and disabled states)
- Input field (empty, filled, and error states)

- Card or list item used across the app
- Navigation bar with correct labels and icons
- Empty state: what the screen looks like with no data

11 · Submit & defense

Deliverables

#	DELIVERABLE	WHAT GOOD LOOKS LIKE
1	Wireframes	Every screen in this brief, plus the unhappy path. Layout and labels clear.
2	High-fidelity UI	Same frames polished. You choose colour and type. Bottom nav on every post-sign-in screen.
3	Prototype	Four linked flows (entry, core task, navigation, unhappy path). Examiners can use the app without your voice-over.
4	AI prototype	Figma Make: at least 2 screens. Share link.
5	Case study (1 page)	Problem · User · Who pays · Competitors · Solution · One design decision
6	Presentation (6–8 slides)	Name · Problem · User · Solution · Key screens · Flow demo · One decision

Before you present

- ☐ Every screen designed in wireframe and hi-fi
- ☐ Unhappy path screen designed and linked in the prototype
- ☐ Four prototype flows linked end to end
- ☐ At least one empty state on a list tab
- ☐ Shared components reused: button, input, card or row, bottom nav
- ☐ Case study names who pays and one competitor you checked
- ☐ You can explain one design decision in critique (why, not what)
- ☐ Completed 5 user interviews or 1 usability test
- ☐ Checked at least one competitor listed under Market context

