

Danfo Tracker

Capstone 16 · Consumer tech · Talodabi Academy

1 · Project overview

You are designing **Lagos danfo directions** commuters can trust: from, to, fare, and steps. Contributor flow when a route is missing is part of the product.

Deliverable	Full mobile MVP in Figma (not code)
Platform	Mobile app · Android-first · portrait
Screens	11 screens + 1 unhappy path (12 frames)
Features	3 core features
Bottom navigation	Bottom navigation with 4 items: Routes · Map · Reports · Contribute
Prototype	4 linked flows

Build order: Auth (screens 1–4) → nav tabs (5–8) → core flow (9–11) → unhappy path → link prototypes.

2 · Problem & primary user

Lagos has one of the busiest and most confusing public transport systems in Africa. Danfos (yellow minibuses) and BRT buses have no official schedule, no app, and no route map. Millions of commuters navigate entirely by memory and word of mouth. New residents and visitors are completely lost.

Primary user

"Amara, a 23-year-old NYSC corper newly posted to Lagos who has no idea which danfo goes from Yaba to CMS, how much it costs, or where to stand to board it."

Geographic scope: State-level (Lagos)

3 · Goals

User goal: Find the right bus route, know the fare, and locate the correct bus stop, all before leaving the house.

Business goal: Build the first community-powered public transport database for Lagos and expand to Abuja and Port Harcourt.

Success: In a quick test, someone finds a **route**, reads **fare breakdown**, and understands **submit a missing route**.

4 • Market context

QUESTION	ANSWER
Who pays	Amara will not pay. Ads, transport unions, or city mobility data later (assumption).
Why not WhatsApp	Commuters ask colleagues at the park. WhatsApp does not store step-by-step danfo legs and fare searchable from Yaba to CMS.
Design focus	Design contributor route submit (in brief) and step fare breakdown . Lagos-only honesty in copy.

Competitors to check:

- **Ask at bus stop / word of mouth** (default)
- **NaijaRoute** (crowdsourced danfo/BRT/keke routes; web SaaS)
- **Google Maps** (roads, not danfo legs and fares)
- **Cowry Card / BRT guides** (formal BRT only)
- **Shuttlers** (office shuttles, not danfo)

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. Search bus routes by start point and destination
2. Show estimated fare, number of bus changes, and popular bus stop locations
3. Community traffic report: users flag if a route is currently congested

Out of scope

- Ride-hailing or BRT ticketing
- Abuja / PH in v1 unless you state it in case study
- Real-time GPS bus tracking

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	Bold yellow and black, Lagos energy. App name clearly visible.
2	Auth	Onboarding (2 screens)	Screen 1: 'Lagos routes, figured out for you.' Screen 2: 'Routes are contributed by commuters like you. Help us grow.' Enter your area to get started.
3	Auth	Sign Up Screen	Name, phone number, home area in Lagos, and PIN.
4	Auth	Sign In Screen	Phone number and PIN.
5	App shell	Routes (tab)	Two fields: From and To. A large 'Find Route' button. Show 3 popular routes in your area below.
6	App shell	Map (tab)	List of route options. Each card shows: buses to take (e.g. Yaba → Ojuelegba → CMSJ), number of stops, estimated fare, and journey time.
7	App shell	Reports (tab)	Step-by-step directions: which bus to board, where to board it, where to drop, and the fare for each leg. Show a simple map if possible.
8	App shell	Contribute (tab)	Three buttons: Traffic is Bad · Traffic is Normal · Route is Blocked. After reporting, show 'Thanks. We've updated this route for your neighbours.'
9	Core flow	Route results	From/to routes with fare and stops. Show bottom nav on post-sign-in screens.

10	Core flow	Route detail	Step-by-step boarding instructions. Show bottom nav on post-sign-in screens.
11	Core flow	Traffic reported	Thanks for updating route status. Show bottom nav on post-sign-in screens.

Layers: Auth = 1–4 · App shell = 5–8 · Core flow = 9–11

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 → Routes tab → Route results → Route detail → Reports tab

Core flow screens: Route results · Route detail · Traffic reported

Flow 3 · Navigation

Link every nav tab so examiners can tap each bottom nav item. Tabs: Bottom navigation with 4 items: Routes · Map · Reports · Contribute

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 12):

Route not found in the database. Show: 'We don't have this route yet. Help us add it!' Show a simple form to submit the route and reward the user with a 'Contributor' badge.

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

