

Community Internet Share

Capstone 56 · Connectivity · Talodabi Academy

1 · Project overview

Access and outage coordination for one existing community network.

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	Access · Usage · Report · Profile
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

Schools, estates, and underserved communities may share a local internet connection. Passwords, data use, outage reports, and operator notices are difficult to coordinate through group chats alone.

Primary user

"Chisom, a 20-year-old student who uses a community Wi-Fi point to attend online classes."

Geographic scope: State-level (One pilot state)

3 · Goals

User goal: Know whether the network is available, see access balance, and report an outage.

Business goal: Community networks, local ISPs, schools, estates, and NGOs pay for access coordination.

Success: User sees access status and data balance, then reports an outage that the operator can update.

4 · Market context

QUESTION	ANSWER
Who pays	Community networks, local ISPs, schools, estates, and NGOs pay for access coordination.
Why not WhatsApp	Users report outages in chats and share passwords manually, with no clear uptime or data balance view.
Design focus	Simple access pass, usage summary, shared outage status, and fault report that works on weak connections.

Competitors to check:

- **Shared Wi-Fi password** (default)
- **Router admin page** (technical)
- **ISP support call** (individual, not community status)

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. See network availability and access-pass status
2. Review simple session and data-use summary
3. Report an outage and follow operator updates

Out of scope

- Building telecom infrastructure
- Becoming an ISP
- Unlimited free data

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 for Community Internet Share.
2	Auth	Onboarding (1 screen)	Explain the app in one sentence. One Get Started button.
3	Auth	Sign Up Screen	Name, phone number, state, and PIN. No email required.
4	Auth	Sign In Screen	Phone number and PIN. Forgot PIN link.
5	App shell	Access (tab)	Network status, access-pass expiry, and connect instructions. Show bottom nav with Access active.
6	App shell	Usage (tab)	Simple session history and remaining data where the operator provides it. Show bottom nav with Usage active.
7	App shell	Report (tab)	Outage or slow-speed report with location point and pending status. Show bottom nav with Report active.
8	App shell	Profile (tab)	User name, community, pass details, and notification preference. Show bottom nav with Profile active.
9	Core flow	Access · Network status	Availability and access-pass expiry visible. Show bottom nav on post-sign-in screens.
10	Core flow	Usage · Summary	Recent sessions and operator-provided balance. Show bottom nav on post-sign-in screens.
11	Core flow	Report · Outage queued	Outage sent or stored with SMS fallback shown. 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 → Access tab → Network status → Usage tab → Report tab → Outage queued

Core flow screens: Access · Network status · Usage · Summary · Report · Outage queued

Flow 3 · Navigation

Link every nav tab so examiners can tap each bottom nav item. Tabs: Access · Usage · Report · 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 12):

The network is down and the report cannot send. Show an SMS fallback code and keep the report queued.

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