

Generator Logbook

Capstone 35 · SME tech · Talodabi Academy

1 · Project overview

Shop diesel and NEPA log on phone.

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	Log · Report · Settings · 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

Shops run hybrid power. UK businesses rarely own generators; Nigerian SMEs track diesel mentally.

Primary user

"Mrs. Okonkwo, a 48-year-old boutique owner in Aba who spends heavily on diesel."

Geographic scope: National-level

3 · Goals

User goal: Log generator hours and diesel cost alongside NEPA availability.

Business goal: Fuel distributors and inverter brands sponsor SME dashboards.

Success: User logs diesel and reads weekly summary.

4 · Market context

QUESTION Talodabi Academy	ANSWER
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Who pays	Fuel distributors and inverter brands sponsor SME dashboards.
Why not WhatsApp	Shop owners estimate diesel spend from memory.
Design focus	Diesel log plus NEPA hours on same weekly report.

Competitors to check:

- **Notebook** (default)
- **NEPA grumbling** (no log)
- **Enterprise energy tools** (too big for shops)

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. Log diesel purchase and hours run
2. Log NEPA on/off for same day
3. Weekly cost summary vs sales note

Out of scope

- Selling fuel
- Smart meter hardware design
- 100-location fleet

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 Generator Logbook.
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	Log (tab)	Quick add: diesel litres/cost or NEPA hours today. Show bottom nav with Log active.
6	App shell	Report (tab)	This week diesel total vs last week bar compare. Show bottom nav with Report active.
7	App shell	Settings (tab)	Shop name, generator capacity, and reminder toggles. Show bottom nav with Settings active.
8	App shell	Profile (tab)	Owner name, phone, and shop location. Show bottom nav with Profile active.
9	Core flow	Diesel · Logged	Litres and cost saved for today. Show bottom nav on post-sign-in screens.
10	Core flow	NEPA · Logged	Grid hours recorded for same day. Show bottom nav on post-sign-in screens.
11	Core flow	Report · Week view	Diesel spend vs last week bars. 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 → Log tab → Diesel logged → NEPA logged → Report tab

Core flow screens: Diesel · Logged · NEPA · Logged · Report · Week view

Flow 3 · Navigation

Link every nav tab so examiners can tap each bottom nav item. Tabs: Log · Report · Settings · 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):

User logs diesel without litres or cost. Show: Enter litres or total cost.

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

