To make this app survive a multi-day disaster (like an earthquake or massive flood), we have to treat **Battery Life** as a literal survival resource. If the phone dies, the "Beacon" dies.

Here is how we design the **"Survival Mode" UI**—it's the low-power, high-contrast, high-utility version of the "Tinder for Disaster" concept.

1. The Visual Design: "OLED Stealth"

Most modern phones have OLED screens. On an OLED screen, **black pixels use zero power**.

- **The Theme:** Pure black background with high-contrast text.
- **Colours:** * **Neon Orange:** For "Critical Needs" (High visibility).
  - **Neon Green:** For "I am Safe" or "Resources Found."
  - **White:** For essential text.
- **No Animations:** We strip away all sliding animations and fades. When you "swipe," the card just snaps to the next one to save CPU cycles.

2. The "Pulse" Logic (The Backend Power-Saver)

Instead of the phone constantly searching for GPS and Bluetooth Mesh signals, the app enters **"Pulse Mode."**

- **Active Window:** The app wakes up for 30 seconds every 10 minutes.
- **The Action:** In those 30 seconds, it sends out its "SOS Heartbeat," scans for nearby "Tinder Cards" (needs), and updates the offline map.
- **The Rest:** For the other 9.5 minutes, the radios (Bluetooth/GPS) go completely dark.
- **Visual Indicator:** A small "Countdown to next Pulse" timer on the home screen.

3. The "Survival Mode" Interface Map

Header: The Vitals

- **Battery %:** Displayed in large numbers.
- **Signal Strength:** Shows "Mesh" (Local) or "Cloud" (Internet).
- **Status:** "Broadcasting SOS" or "Hidden."

Center: The "Action Card" (The Tinder Part)

Instead of photos (which drain battery to download), we use **Vector Icons and Data**.

[ICON: WATER DROP]

NEED: Potable Water (3 People)

LOCATION: 150m East (Near the Park Statue)

TIME: Reported 12 mins ago

[BUTTON: I'M COMING] [BUTTON: IGNORE]

Footer: The Three Essential Tools

1. **SOS Strobe:** A button that flashes the phone's LED flash in the "SOS" Morse code pattern.
2. **The "Check-In" Button:** A single button that says, "I'm still okay." Tapping this updates your timestamp on the mesh network for rescuers.
3. **Compass:** A simple, static needle pointing toward the nearest "Match."

---

4. Hardware Integration: "The Brightness Lock"

When the app enters Survival Mode, it overrides the phone settings:

- **Auto-Dim:** The screen stays at the lowest readable brightness.
- **Kill Background Apps:** It gives the user a prompt to "Kill all other apps" to ensure every drop of juice goes to the Beacon.

---

5. Summary Table: High-Power vs. Survival Mode

Feature	Standard Mode (Peace Time)	Survival Mode (Disaster)
Colours	Full colour, photos, maps.	Pure Black + Neon Text.
Refresh Rate	Instant / Real-time.	10-minute "Pulse" windows.
Data Usage	High-res images & video.	Text-only (JSON strings).
Map Style	Google Satellite View.	Simple "Stick-Map" (Lines only).