**ICS Command Assistant: Mobile App Phase 3.5 Design Plan**

**⚙️ Phase 3.5 Overview**

Phase 3.5 introduces field productivity and safety tools focused on **search and rescue efficiency**, **hazard awareness**, and **user experience enhancements**. This phase strengthens the field user's toolkit with tactical aids and better mission control.

**📅 Phase 3.5 Feature Scope**

**1. SAR-Specific Task Types and Tools**

* Search pattern instructions (parallel, grid, etc.)
* GPS breadcrumb recording
* Map overlays for clue markers and sectors
* Support for “Last Known Point” and “Point Last Seen”

**2. Hazard & Safety Reporting**

* Field submission of hazard/safety issues
* Reports include photos, geolocation, and type
* Accessible by Command via safety dashboard

**3. Quick Navigation Tools**

* GPS coordinate access for:
  + Team members
  + Assigned sectors
  + Task destinations
* Option to launch external map apps (Google Maps, Gaia, etc.)

**4. Battery Saving Mode**

* Reduces frequency of GPS and data sync
* Manual toggle with visual indicator
* Prioritizes power conservation in extended ops

**5. Field QR Scan Utility**

* Equipment/location/team QR code scanning
* Supports offline capture and later sync
* Used for check-ins, asset tracking, and location IDs

**📁 Backend/API Additions**

| **Feature** | **Module** | **Endpoint(s)** | **Tables** |
| --- | --- | --- | --- |
| SAR Task Types | Ops / Tasking | GET /api/tasks/sar | Tasks, ClueMarkers |
| Hazard Reports | Safety | POST /api/safety/report | HazardReports |
| Navigation Tool | Location Services | GET /api/location/targets | Users, Tasks |
| Battery Settings | Local Storage | None (local only) | — |
| QR Scan Handler | Equipment / Logs | POST /api/qr/scan, GET /api/qr/history | QRLog |