Feature 4: Daily Site Diary Module

# 1. Feature Overview

The Daily Site Diary enables field engineers to log day-to-day site activity, including weather, workforce, completed work, equipment usage, incidents, and attached images. Each entry is tied to a project and date.

# 2. Diary Entry Fields

- Date (auto-filled)  
- Weather (text/select)  
- Labor count  
- Tasks completed  
- Materials used  
- Equipment in use  
- Incidents or delays  
- Attach photo (optional)  
- Author (auto-tagged)

# 3. User Interface Components

- Mobile-first form with expandable sections  
- Calendar view of submitted diaries  
- Filters: project, date, submitted by  
- Exportable logs in PDF/Excel

# 4. Database Schema

Table: site\_diary\_entries  
- id (PK)  
- project\_id (FK)  
- user\_id (FK)  
- date  
- weather  
- labor\_count  
- work\_done TEXT  
- equipment\_used TEXT  
- incidents TEXT  
- photo\_url (optional)  
- created\_at

# 5. API Endpoints

POST /diary/submit  
- Auth required  
- Accepts diary fields + optional photo  
  
GET /diary/{project\_id}  
- Returns diary entries by project  
- Optional filters: date range, user

# 6. Technical Notes

- Diary form autosaves offline on mobile (PWA)  
- Photo stored like other uploads  
- Only one diary allowed per user per day per project

# 7. Benefits

- Improves field reporting discipline  
- Creates a legal/audit trail  
- Helps planners understand delays  
- Central source for site documentation