

RALLY FIELD TECHNICIAN APP

SRS + UI SPECIFICATION (Developer Document)

1. INTRODUCTION

This document defines the complete Software Requirement Specification (SRS), UI specifications, riser logic, complexity logic, database structure, and workflows for the Rally Field Technician Application.

2. PRIMARY FEATURES

- Building search by name, address, technology.
- Full building detail view (parking, floors, risers, ONT PDFs).
- Floor selector with smart riser detection.
- Single riser OR dual riser (East/West) logic.
- Complexity & required technician auto calculation.
- Admin panel to manage buildings, floors, risers, images & PDFs.

3. BUILDING DETAIL UI SPECIFICATION

Includes:

- Building name, address, technology tags.
- Complexity score and required technicians.
- Parking instructions + parking images.
- Floor selection dropdown:
 - User selects floor.
 - System displays:
 - Nearest riser above.
 - Nearest riser below.
- Riser results:

Case A: Single riser → show that one only.

Case B: Dual risers (East/West):

- "East Side Riser → Riser #"
- "West Side Riser → Riser #"
- Buttons:
 - View Parking Images
 - View Riser Details
 - View ONT Configuration PDFs

4. COMPLEXITY LOGIC

Input examples: "1", "2", "60%1 and 40%2"

Weights:

- 1 tech = 30%
- 2 tech = 80%

Weighted Formula:

$$\text{complexity} = (p1 * 30 + p2 * 80) / 100$$

Required Techs:

If $p2 \geq 50 \rightarrow 2$ techs

Else $\rightarrow 1$ tech

5. DATABASE STRUCTURE

Tables:

- users(id, name, email, role)
- buildings(id, display_name, address, technology, infrastructure_type, techs_raw, complexity, required_techs)
- floors(id, building_id, floor_label)
- risers(id, building_id, side, floor_id)
- images(id, building_id, category, file_url)
- tech_pdfs(id, building_id, technology, file_url)

6. RISER LOGIC

Case A: Only one riser:

Display single riser only.

Case B: East/West risers:

Show both risers:

- East side \rightarrow Riser name
- West side \rightarrow Riser name

Case C: Floor-based logic:

For selected floor X:

nearest above = lowest riser floor $> X$

nearest below = highest riser floor $< X$

7. ADMIN PANEL

Admin can:

- Add/Edit buildings
- Assign infrastructure + tech count
- Add floors

- Add risers (select: Single / East / West)
- Upload images (parking & riser)
- Upload ONT PDFs
- Override complexity if needed

8. TECHNICIAN WORKFLOW

Login → Building List → Search/Filter → Select Building →

Floor Selector → Riser Guidance (single/east/west) → ONT PDF → Job Completion.

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