

Job Map and Listing Tool for Sales Reps - Requirements Document

****App Name:**** Job Map and Listing Tool for Sales Reps

****Purpose:****

The app allows sales representatives to input job location details, upload photos, categorize projects, and visualize them on a map using custom icons based on the job category. The data is also used to generate an SEO-optimized listing of projects by city and category.

****User Interface Features:****

Frontend for Sales Reps:

1. ****Job Input Form:****

- Fields for data entry:
 - ****Street Address****: Full address input including street, city, state, and zip code.
 - ****Short Description****: Free-text field to briefly describe the project.
 - ****Category****: Dropdown selector for job categories (e.g., Flooring, Cabinet, etc.).
 - ****Photo Upload****: Ability to upload multiple photos for each job (unlimited number).
 - ****Google Review Link****: Field to input a link to the project's Google review.
- Validation for required fields.

2. ****Map Display:****

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- Interactive Google Map integration.
- Pins plotted based on the job address.
- Display masked address on hover (e.g., "Redbud Avenue - Odessa, TX").
- Custom icons for pins based on job category.
- Filters:
 - **City Selector**: Dropdown to filter jobs by city.
 - **Category Selector**: Dropdown to filter jobs by category (one, many, or all).
- Option to view all jobs on the map or filtered selections.

3. **Listing Widget**:

- SEO-friendly list of jobs, categorized by city and job type.
- Example format:
 - "Cabinet Installations in Odessa, TX."
 - "Flooring Installations in Midland, TX."
- Automatically updates based on the database.

4. **Integration**:

- Embed widgets for map and listing into websites.

Backend for Admins:

1. **Password-Protected Login**:

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- Secure login for admins.

2. **Job Management:**

- List, edit, or delete existing jobs.
- Add new jobs directly.

3. **User Management:**

- Create, edit, and remove user accounts.
- Assign roles and permissions.

4. **Custom Icon Management:**

- Upload and manage icons for job categories.
- Assign icons to specific categories.

5. **Database Export:**

- Export job data and photos for offline use.

****Additional Features:****

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1. **Photo Optimization:**

- Automatically compress uploaded photos for fast loading.

2. **AI Assistance (Optional):**

- Generate project descriptions based on input data for consistency.

3. **Map Features:**

- Heatmap view to identify high-density job areas.
- Clickable pins to display additional job details and photos in a pop-up.

4. **Search Functionality:**

- Search for jobs by keywords, city, or category.

5. **Notification System:**

- Email notifications for admins when new jobs are added.
- Optional email confirmation for sales reps after job submission.

6. **Mobile Optimization:**

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- Ensure all widgets and forms are mobile-friendly for on-the-go use.

****Technical Requirements:****

Frontend:

- ****Technology:**** HTML, CSS, JavaScript (React or Vue.js preferred).
- ****Google Maps API:**** Integration for plotting job locations.
- ****Widgets:**** Embed code for seamless integration into external websites.

Backend:

- ****Technology:**** Node.js, Python (Django or Flask), or PHP (Laravel).
- ****Database:**** MySQL or PostgreSQL for structured data storage.
- ****Storage:**** AWS S3 or equivalent for photo storage.
- ****Authentication:**** JWT or OAuth 2.0 for secure access.

Hosting:

- ****Platform:**** Low-cost cloud hosting (e.g., AWS, Google Cloud, DigitalOcean).
- ****Scalability:**** Auto-scaling for future growth.

Security:

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- **Encryption:** SSL/TLS for all data transmission.
- **Data Privacy:** Mask full addresses from the public-facing map.

Workflow:

1. Sales rep logs in and inputs job details via the form.
2. Data is saved to the database, and the location is plotted on the map.
3. Photos are uploaded and associated with the job entry.
4. Custom pins appear on the map based on category.
5. Filters allow users to explore jobs by city and category.
6. Listings are automatically updated and formatted for SEO.
7. Google review links are displayed alongside job details when available.

Deliverables for Developer:

1. Fully functional frontend for input, map, and listings.
2. Secure backend for data management.
3. Database schema documentation.
4. Embeddable widgets for map and listings.
5. Admin and user manuals for app usage.

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****Timeline and Budget:****

To be determined based on developer feedback.

Feel free to refine or expand this list based on specific needs.