# Rob West Plumbing Inc. - Web Application

A modern, responsive single-page application (SPA) for **Rob West Plumbing Inc.**, built to serve the Chicago area. This application features a mobile-first design, a staff portal for content management, and an integrated AI diagnostic assistant powered by Google Gemini.

## 🚀 Features

* **Responsive Design:** Seamlessly adapts between mobile (app-like drawer navigation) and desktop (grid layouts).
* **AI Diagnostic Assistant:** A floating chat widget powered by the Gemini API that helps customers assess plumbing urgency.
* **Staff Portal:** Secure login for staff (Rob & Rigo) to upload gallery photos and update the "About Us" feature image.
* **Real-time Gallery:** Dynamic photo gallery powered by Firebase Firestore.
* **Review System:** Customer review submission form.
* **Optimized Performance:** Client-side image compression before upload to save bandwidth and storage.

## 🛠️ Tech Stack

* **Frontend:** React (Vite)
* **Styling:** Tailwind CSS + Lucide React (Icons)
* **Backend / Database:** Firebase (Auth, Firestore)
* **AI:** Google Gemini API (via generativelanguage.googleapis.com)

## 📦 Installation & Setup

1. **Clone the repository:**  
   git clone [https://github.com/your-username/rob-west-plumbing.git](https://github.com/your-username/rob-west-plumbing.git)  
   cd rob-west-plumbing
2. **Install dependencies:**  
   npm install
3. Environment Configuration:  
   Create a .env file in the root directory. Do not commit this file.  
   Add your API keys:  
   VITE\_FIREBASE\_API\_KEY=your\_firebase\_api\_key  
   VITE\_FIREBASE\_AUTH\_DOMAIN=your\_project.firebaseapp.com  
   VITE\_FIREBASE\_PROJECT\_ID=your\_project\_id  
   VITE\_FIREBASE\_STORAGE\_BUCKET=your\_project.appspot.com  
   VITE\_FIREBASE\_MESSAGING\_SENDER\_ID=your\_sender\_id  
   VITE\_FIREBASE\_APP\_ID=your\_app\_id  
   VITE\_GEMINI\_API\_KEY=your\_gemini\_api\_key
4. **Run Locally:**  
   npm run dev

## 🔒 Security Note

This repository does not contain active API keys. All configuration is handled via environment variables.

## 📄 License

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