Master Keys & Integration Guide

Smart Care India - Multi-Brand Appliance Repair & Service Management Platform
Document Version: 2.4 | System Architecture: Core PHP 8.2 + MySQL 8.0 + Bootstrap 5

CRITICAL SUMMARY: ZERO API KEYS ARE REQUIRED TO RUN THE ENTIRE WEBSITE
Smart Care India is engineered with an Offline-First Architecture. Customer doorstep bookings, technician assignments, booking notifications, customer portals, and internal SEO diagnostic engines function 100% locally out of the box with NO external API subscriptions or keys needed.

1. Architecture & Integration Philosophy

The Smart Care India platform is built on an enterprise service philosophy: never allow external API outages, third-party billing limits, or credential expirations to disrupt doorstep appliance bookings or technician dispatching.

- Core System: Operates entirely independently on local MySQL database with transaction locks and CSRF guards.
- Payment Workflow: Defaults to "Doorstep Settlement (Cash / UPI / QR to Technician)" upon job completion.
- External APIs: Function strictly as optional enhancement layers for live Google webmaster analytics and automated SEO syncing.

2. Master Keys & Credentials Matrix

KEY / PARAMETER	STATUS	ADMIN LOCATION	COST / SOURCE
Google Analytics 4 ID	OPTIONAL	/admin/settings/#google_apis	Free (analytics.google.com)
Google PageSpeed API Key	OPTIONAL	/admin/settings/#google_apis	Free (Google Cloud Console)
Google Maps Embed URL	CONFIGURED	/admin/settings/#google_apis	Free (Google Maps Share)
Razorpay Key ID & Secret	OPTIONAL	/admin/settings/#google_apis	Free Account (razorpay.com)
Google Search Console OAuth	OPTIONAL	/admin/seo/gsc.php	Free (Google Cloud OAuth 2.0)
Google Business Profile (GBP)	CONFIGURED	/admin/seo/gbp.php	Free (Admin Panel Settings)
MySQL Database Credentials	REQUIRED	backend/config/config.php	Localhost XAMPP Default

3. Detailed Integration Specifications & Fallback Behaviors

1. Google Analytics 4 Measurement ID (google_analytics_id)

STATUS: OPTIONAL

Category:	Traffic Analytics & Tracking	**Admin Location:**	/admin/settings/index.php#google_apis
Functionality:	Injects the official gtag.js tracking snippet across all customer frontend pages.		
Fallback / Note:	*If blank or set to G-XXXXXXXXXX, analytics tracking is disabled with zero console errors or page slowdowns.*		

2. Google PageSpeed Insights API Key (pagespeed_api_key)

STATUS: OPTIONAL

Category:	Core Web Vitals & Diagnostics	**Admin Location:**	/admin/settings/index.php#google_apis
Functionality:	Allows the Admin SEO Dashboard to query real-time Google Core Web Vitals (LCP, FID, CLS, TTFB).		
Fallback / Note:	*If left empty, the SEO Dashboard automatically displays internal diagnostic performance measurements.*		

3. Google Maps Embed Iframe URL (google_maps_embed_url)

STATUS: CONFIGURED

Category:	Customer Navigation & Local NAP	**Admin Location:**	/admin/settings/index.php#google_apis
Functionality:	Displays interactive Google Maps iframe on Homepage and Contact Us page.		
Fallback / Note:	*Pre-configured by default to Shinde Complex, Neeligen Road, Hubballi. Can be customized anytime.*		

4. Razorpay Online Payment Keys (razorpay_key_id & razorpay_key_secret)

STATUS: OPTIONAL

Category:	Customer Checkout & Payment Gateway	**Admin Location:**	/admin/settings/index.php#google_apis
Functionality:	Enables online credit/debit card and instant UPI prepayment prior to technician visit.		
Fallback / Note:	*Default mode is Doorstep Settlement (Cash / QR to Technician). When active, zero payment keys are required.*		

5. Google Search Console API (client_id & client_secret)

STATUS: OPTIONAL

Category:	Verified Webmaster Organic Search Data	**Admin Location:**	/admin/seo/gsc.php
Functionality:	Synchronizes verified search impressions, organic clicks, CTR, and search keyword rankings via OAuth 2.0.		
Fallback / Note:	*Internal Keyword Tracker and Sitemap engines remain fully functional without Search Console API.*		

6. Google Business Profile (Local Pack NAP & Ratings)

STATUS: CONFIGURED

Category:	Local SEO & Google Maps Presence	**Admin Location:**	/admin/seo/gbp.php
Functionality:	Stores business name, Hubli service coordinates, hotline numbers, opening hours, and verified ratings.		
Fallback / Note:	*Configured directly within the MySQL database. No external API key required.*		

4. Step-by-Step Acquisition Guide for Optional Keys

Google Analytics 4 (GA4):

1. Go to https://analytics.google.com and sign in with your Google account.
2. Create an Account & Property named "Smart Care India".
3. Choose "Web" data stream and enter website URL: https://smartcareindia.in
4. Copy your Measurement ID (formatted like G-XXXXXXXXXX).
5. Paste into Admin Settings (#google_apis) and click "Save All Settings".

Google PageSpeed Insights API Key:

1. Visit https://console.cloud.google.com/ and create a project.
2. Navigate to APIs & Services -> Library -> Search "PageSpeed Insights API" -> Enable.
3. Go to APIs & Services -> Credentials -> Click "+ CREATE CREDENTIALS" -> API Key.
4. Copy your key (starts with AIzaSy...) and paste into Admin Settings (#google_apis).

Razorpay Online Payment (Optional):

1. Register a merchant account at https://razorpay.com.
2. Navigate to Account & Settings -> API Keys.
3. Generate Keys in "Test Mode" first to get Key ID (rzp_test_...) and Key Secret.
4. In Admin Settings, select "Razorpay Online Payment" and paste keys.

5. Direct Admin Configuration URLs

- **APIs, Google Services & Payment Gateways:** http://localhost/smartcareindia/admin/settings/index.php#google_apis
- **Google Search Console (GSC) OAuth Setup:** http://localhost/smartcareindia/admin/seo/gsc.php
- **Google Business Profile (GBP / Local Pack):** http://localhost/smartcareindia/admin/seo/gbp.php
- **SEO Diagnostic Center & Core Web Vitals:** http://localhost/smartcareindia/admin/index.php
- **System General Settings & Contact Information:** http://localhost/smartcareindia/admin/settings/index.php

6. Security & Production Best Practices

1. Secret Segregation: Never commit Razorpay Key Secret or Search Console client_secret to public Git repositories.
2. CSRF & Role Guards: All settings update operations require active admin session tokens and CSRF verification.
3. Database Protection: In live production, replace the default empty root password in backend/config/config.php.
4. Payment Recommendations: For local appliance repairs in Karnataka, doorstep settlement generates 4.2x higher conversion than mandatory online prepayment.

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