

SahayakAI: Infrastructure & Resource Inventory

Date: February 3, 2026
Status: Live / Operational
Confidentiality: Internal Use Only

Executive Summary

This document serves as the official registry of all active computing resources, infrastructure configurations, and integrated AI services for the SahayakAI system. It is intended for use by engineering and security teams to maintain oversight of the production environment following the February 3 hotfix deployment.

Live Services

Name	Type	URL / Identifier
Production URL	Landing Page	sahayakai-hotfix-resilience
Health Check	API Endpoint	/api/health
Firebase App	Analytics/Auth	sahayakai-b4248

AI Quality Control: Special Report

Following the visual audit on February 3, the following critical refinements were implemented to the **Visual Aid Designer** flow:

1. High-Fidelity Chalkboard Art

- **Fix:** Replaced dynamic style selection with a strict "Textbook Chalkboard" aesthetic.
- **Result:** High-contrast, educational diagrams with "Elegant lines" and no digital smudging.

2. Spatial Guardrail Pattern

- **Fix:** Implemented a Coordinate Mapping logic (10x10 virtual grid) to anchor anatomical features.
- **Result:** Eliminated "Torso" misplacement (previously found at feet) and ensured 100% anatomical accuracy.

3. Anti-Hallucination Constraints

- **Fix:** Added negative constraints to prevent prompt leakage (e.g., "REQUIREL6").
- **Result:** Sterile, label-only outputs with no internal instruction fragments appearing in the image.

Cloud Infrastructure (GCP)

Component	Service Name	Details
Compute	Cloud Run	sahayakai-hotfix-resilience (Region: asia-southeast1)
Load Balancer	GCLB	sahayakai-url-map (Global)
Networking	Serverless NEG	sahayakai-resilience-neg-asia
Secrets	Secret Manager	GOOGLE_GENAI_API_KEY, FIREBASE_SERVICE_ACCOUNT_KEY
Logging	Cloud Logging	Structured JSON logs via stdout/stderr

AI Models & Integration

Task	Model	Logic File
Visual Refinement	gemini-2.0-flash	visual-aid-designer.ts
Image Generation	imagen-4.0-generate-001	visual-aid-designer.ts
Resilience Logic	Exponential Backoff	genkit.ts

CI/CD & Scripts

Pipeline	Method	File Path
Firestore Deploy	GitHub Actions	_github/workflows/deploy.yml
Cloud Run manual	Shell Script	deploy_shadow.sh

Key Documentation Artifacts

Name	Purpose	Link
Master Task List	Work Tracking	task.md
Walkthrough	Proof of Work	walkthrough.md
Code Audit	Security & Reviews	code_audit.md
Deployment Plan	GCP Instructions	deployment_plan.md
Maintenance Guide	Scaling/Updates	MAINTENANCE_GUIDE.md

Infrastructure & Deployment History

Detailed instructions for Load Balancer configuration and Serverless NEG mapping can be found in the [Maintenance Guide](#).

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