Cardiovascular Analytics in Your Own Cloud

A proposal from IrshadOS for hospital heart and vascular programs

The problem

Heart programs already collect rich data for NCDR, STS and GWTG, plus cost per case and EMR documentation. Turning it into answers still takes analysts, spreadsheets and weeks of slide-building, and outsourced analytics platforms are priced as long subscriptions.

What we deliver in 4 weeks

- **CV data mart** in your own Google Cloud project: registry exports, cost per case and (later) EMR feeds in one model.
- **Dashboards** for volume, length of stay, complications, discharge timing and cost per case by physician, site and period.
- **Opportunity list** ranked by bed days and dollars, compared with your own baseline and the registry benchmarks you already receive.
- **AI analyst:** ask “why did TAVR length of stay rise last quarter?” in plain English; every answer shows its query and numbers.
- **Documentation-gap flags** where registry risk fields and EMR diagnoses disagree, for your CDI team to review.
- **Initiative tracker and scorecard** with owners, milestones and measured impact.
- **One-click quarterly deck** for leadership, with draft commentary your team edits.

Optional next blocks: echo report reader that flags possible severe aortic stenosis not yet referred; Epic Clarity / Caboodle feeds; EP, vascular, heart failure and stroke areas.

Scope of the 4-week build: one service-line area (for example CathPCI + TAVR) with up to two registries. The 4 weeks start once we have access to the cloud project and the first data export.

How we work

Week	Outcome
1	Your GCP project set up under Google’s BAA; secure access; first registry export loaded (synthetic data for development)
2	Data mart for one area (e.g. CathPCI + TAVR) and core dashboards; numbers checked against your registry reports
3	AI analyst and documentation-gap flags
4	Initiative tracker, scorecard, quarterly deck, training and handover

Investment

Item	Cost
Build	$2,400 (20 hours a week x 4 weeks at $30 per hour), billed weekly
Maintenance (optional)	$30 per hour; we suggest 20 hours a month ($600) for refreshes, fixes and small changes
Google Cloud	Usage-based on your own Google Cloud bill, typically $30-200 a month for one program
Contract	Direct freelance contract with IrshadOS, signed electronically (services agreement, statement of work and BAA); no marketplace fees
You own	All code, data, dashboards and the cloud account from day one

Security and privacy

- Everything runs in your Google Cloud organization under Google Cloud’s BAA; we sign a BAA with you.
- Development uses synthetic or de-identified data; production data loads are run by your team or under your written approval.

- Least-privilege access, audit logging, no patient data in logs; the AI model sees table structure and aggregate results, not patient rows.
- Validation against your registry outcome reports before anything is shared with leadership.

About IrshadOS

IrshadOS is a small engineering team led by Muhammad Kashif Irshad, an AI integration and data engineer with 18+ years of experience, including database architecture for a US EHR / practice-management platform, healthcare cost analytics, BigQuery / dbt / Airflow data pipelines and production AI assistants with cited answers. We use AI-assisted engineering (Claude) to keep hours, and your cost, low.

Learn more about us at **irshados.com** (about the team: irshados.com/about/). Our agency profile, with client ratings and work history, is on Upwork: **upwork.com/agencies/irshados/**.

How we contract

A **direct freelance contract with IrshadOS**, signed electronically through a digital contract platform (for example DocuSign or PandaDoc): a short services agreement, a statement of work for the 4-week build, and a BAA, all signed in one envelope. We send weekly invoices with time records; payment by international bank transfer. Contracting directly keeps marketplace fees out of your price, so you pay for development hours only.

Next step

A 30-minute call to pick the first area (for example CathPCI + TAVR) and see a demo on synthetic data. We then send the agreement, statement of work and BAA for e-signature.

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