DIALOGFLOW CX REQUEST COST

Understanding the cost associated with Dialogflow CX requests is crucial for budgeting AI chatbot development and deployment.

COST PER REQUEST

Each user message is considered one request. The cost is structured as follows:

1 request = 1 user message

Cost per request = $0.007

Approximate cost in INR = ₹0.58

COST FORMULA

The total cost can be calculated using the following formula:

Cost (₹) = Number of Requests × 0.58

EXAMPLE SCENARIOS (DIALOGFLOW CX)

Here are some examples illustrating the cost based on user volume and message frequency:

Users per Month	Avg. Messages per User	Total Requests	Cost in USD	Cost in INR
100 users	10 messages	1,000	$7	~₹580
1,000 users	10 messages	10,000	$70	~₹5,810
10,000 users	10 messages	100,000	$700	~₹58,100
100,000 users	10 messages	1,000,000	$7,000	~₹5,81,000

COST PER USER SESSION

A typical user session lasts 2-3 minutes, involving approximately 8-12 user messages. This leads to the following cost per session:

Cost per message: $0.007 (₹0.58)

For 8 messages: 8 × $0.007 = $0.056 ≈ ₹4.65

For 12 messages: 12 × $0.007 = $0.084 ≈ ₹6.95

Therefore, 1 user session costs about ₹5–7 on average.

AUDIO ADD-ON COST

If voice capabilities are used (Speech-to-Text and Text-to-Speech), an additional cost is incurred:

Cost: $0.001 per second of audio

For 120 seconds (2 minutes): 120 sec × $0.001 = $0.12 per user

This adds approximately ₹10 per user extra for voice interaction.

FINAL TAKEAWAY (DIALOGFLOW CX)

Text bot only: ~₹5–7 per user session (8 to 12 req).

Voice bot (STT+TTS): ~₹15–17 per user session.

ATLAS CLUSTER COST ESTIMATE WITH BENEFITS

MongoDB Atlas offers various cluster tiers with associated costs and benefits, suitable for different application needs.

Cluster	RAM	Storage	Price/month (USD)	Approx INR	Be
M0 (Free)	512 MB	512 MB	$0	₹0	- Fr Sha Go dev tes bac Lin per sto
M2	2 GB	10 GB	$9	₹750	- Lo lev Sha bet per M0

					sm bo Ma Gr rea
M5	5 GB	20 GB	$25	₹2,100	- Su pro Sha hig per Ma sup rep har tra bo
M10	10 GB	40 GB	$57	₹4,800	- D → & p Au ba set ava har an use bo
M20	20 GB	80 GB	$114	₹9,600	- H per de Au ba tim Sh sup ho Be lev an loa

ABSTRACT API PRICING

Abstract API provides pricing based on the number of requests per month.

Plan	Requests/Month	Price (USD)	Approx INR
Free	500 requests	$0	₹0
Starter	10,000 requests	$9	₹750
Professional	50,000 requests	$39	₹3,250

DLT REGISTRATION COST (INDIA)

This section details the one-time annual costs associated with DLT (Distributed Ledger Technology) registration in India, necessary for sending bulk SMS.

ONE-TIME PER YEAR COSTS

Registration is required once per entity and works across all Indian telecom networks.

Entity Registration: ₹5,900 (including GST, valid for 1 year).

Header (Sender ID): ~₹1,000 each.

Template Approval: ~₹500 per template.

EXAMPLE COST BREAKDOWN (FOR A HOSPITAL)

Entity Registration: ₹5,900

Header (e.g., “ASAHLT”): ₹1,000

2 Templates (OTP + appointment alert): 2 × ₹500 = ₹1,000

Total for the first year: ~₹7,900 🌐 Public Web Hosting Costs (2025)

Hosting cost depends mainly on **size of your app/website, traffic, and type of hosting**.

---

1. **SHARED HOSTING** (BASIC ENTRY-LEVEL)

What it is: Your website sits on the same server as hundreds of other sites.

Best for: Small websites, landing pages, personal projects, very low traffic.

Cost:

₹150–₹400/month in India

$2–$10/month worldwide

Pros: Cheap, beginner-friendly, easy setup.

Cons: Slow, limited resources, not good for apps or high traffic.

---

2. **VPS (VIRTUAL PRIVATE SERVER)**

What it is: A server is split into virtual machines, you get dedicated CPU/RAM.

Best for: Medium apps, hospital systems, bots, moderate traffic.

Cost:

₹1,000–₹3,000/month (India)

$10–$30/month worldwide

Pros: More power, root access, better performance.

Cons: Requires technical knowledge, you manage updates & security.

---

3. **CLOUD HOSTING (AWS, GOOGLE CLOUD, AZURE, DIGITALOCEAN, ETC.)**

What it is: Pay-as-you-go, scalable hosting on cloud servers.

Best for: Apps like your **Hey Doc! system** (appointments, SMS/email).

Cost:

Small instance (1 CPU, 1–2 GB RAM) → **$8–$15/month** (₹700–₹1200)

Medium instance (2 CPU, 4 GB RAM) → **$20–$40/month** (₹1600–₹3200)

Pros: Scalable, reliable, works with APIs (email/SMS).

Cons: More complex setup, costs increase with traffic/usage.

---

4. **DEDICATED SERVER**

What it is: You rent the whole physical server.

Best for: Very high traffic (10,000+ daily visitors).

Cost:

₹7,000–₹20,000/month (India)

$80–$300+/month worldwide

Pros: Maximum control, high performance.

Cons: Expensive, needs server admin.

✅ QUICK RECOMMENDATION FOR YOU (HOSPITAL BOT & APPOINTMENT APP)

Since your app:

Uses **FastAPI** + **MongoDB**

Needs **Cloud Run + Twilio (SMS) + Gmail (email)**

Will scale slowly (patients booking appointments)

👉 **Best choice = Google Cloud Run (serverless cloud hosting)**

Free tier: 2 million requests/month free.

Paid: After free tier, **₹700–₹1500/month ($8–$15)** for small scale usage.

Scales automatically (you don't pay when nobody is booking).

💰 CLEAR-CUT COST RANGES

Small personal site → **₹150–₹400/month** (Shared)

Medium web app (like yours) → **₹700–₹3000/month** (Cloud/VPS)

Large traffic (hospitals across India) → **₹7,000+/month** (Dedicated/High Cloud)