

AI Voice Agent MVP

Comparable to: AI Voice Agent / MegChem

A voice-first AI assistant for hands-free internal queries and task execution over company knowledge.

Estimated MVP cost

\$15,866

Estimated effort

283 hours

To get your own customised cost for an app like this, visit www.chatstack.app and start a ChatStack interview describing how you want it customised.

Key Features

- Speech-to-text and text-to-speech pipeline
- RAG over internal documents
- Action tools (booking, lookups, drafts)
- Session history
- Usage analytics

Out of Scope for This MVP

- Low-latency US/EU hosting
- Noise-tolerant STT
- Telephony integration deferred

Full Cost Breakdown

Item	Hours	Cost
Voice UI, STT/TTS integration, RAG backend, and admin analytics.	182	\$10,010
Planning	20	\$1,101
Project Management	16	\$901
Testing	9	\$501
DevOps	7	\$400
Design & Frontend Build	24	\$1,301
AI Tokens	0	\$250
Security	9	\$501
Risk (10% Contingency)	16	\$901
Total	283	\$15,866

Estimate Assumptions

- Per-minute voice API costs at runtime excluded.

Risks That Could

Change This

- Latency and accent handling may need tuning.

User Stories

US-1 - Employee

As an employee, I want to ask questions by voice so that I can work hands-free.

US-2 - Administrator

As an administrator, I want usage reports so that I can measure adoption.

Requirements

FR-1 - Voice UI

Voice conversation loop with grounded answers and tool use.

Requirements Assumptions

- Standard secure authentication and English-

only MVP.

Technical Specification

TS-1 - Voice Pipeline
Streaming STT/TTS with interruption handling.

Technical Assumptions

- Supabase Postgres with RLS where applicable.
- Hosted on Vercel or AWS.

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This is a starting estimate for a custom-built MVP, designed and built from scratch. You own all the code and IP with no platform

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