Al Customer Service Sentiment Analysis

MVP Scope Definition Report

This report defines the minimum viable product (MVP) scope for our AI Customer Service Sentiment Analysis platform, based on market validation findings and project charter goals.

1. Feature Prioritization

Priority	"Job-to-be-done"	Why it must (or can) wait	KPIs it unlocks
P0 – Must ship	Lightweight post-interaction widget	72% of surveyed users abandoned	Response-rate,
in week 1	(1–2 clicks, name + email optional) that	5-question surveys; the widget	daily active
III WEEK I	auto-disappears after 15 sec	removes that friction.	responses
	Real-time sentiment scoring (VADER / LLM-embeddings) with a single "CX Score" dial	Decision-makers asked for "one number I can paste in a slide."	Weekly CX score trend
	CSV/JSON export + Webhook	Analysts want raw data for Power BI; webhook is the quickest bridge.	# exports / week
P1 – Nice-to- have once P0 is stable	Dashboard filtering (channel, product, bot vs. human hand-off) Brings second-level insights but isn't needed to prove value.		Time-to-insight
	Benchmark index (compare my score to industry median)	Buyers said they'd pay <i>more</i> for benchmarking, but you don't need it to start charging.	Up-sell conversions
P2 – Stretch / beta-tester treats	Root-cause explorer (LLM topic clustering + transcript highlights)	Heavy LLM cost & UI complexity; keep for beta group.	Retention, NPS
4	Multilingual auto-detection	Only 18% of early adopters operate >1 language.	Market expansion

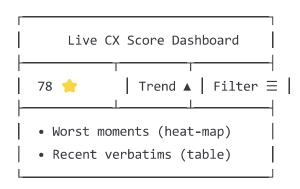
2. Technical Feasibility Assessment

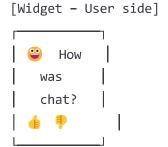
Platform	Low-code hook you'll call	Auth model	1-week PoC?	Gotchas
Zendesk	Conversation Events Webhook	OAuth2	Yes – push events to SQS → Lambda → scoring	Ticket redaction may remove messages after 30 days; cache if you need repro.
Intercom	Conversations webhook + REST	Personal- access token	Yes	Only the <i>user</i> 's last reply appears in some events; store thread IDs to back-fill.
Salesforce	Streaming API	JWT Bearer	Prototype – needs	Daily API-call governor limits
Service Cloud	(CometD)	flow	Connected App	(15k/24h basic).
Freshdesk	Callback URLs	API key (header)	Yes	EU vs US data centers → be explicit about region.
Amazon Connect (voice)	Kinesis Contact Trace → Lambda	IAM role	Yes	Voice sentiment SDK works only for English; plan for translations.

Key Takeaway: Every top-five CS platform exposes either webhooks or streaming APIs—no SDK embedding inside their UI needed. This allows our stack to remain **fully decoupled**:

```
ig(Webhook → AWS API Gateway → Lambda (sentiment) → DynamoDB + S3 → React dashboardig)
```

3. UX/UI Design Concepts





[Admin - Install flow]

- 1. Copy URL endpoint
- 2. Paste into Zendesk webhook
- 3. Toggle "Live" ✓

Design Principles

- Zero cognitive load: single HEX-color sentiment dial and two buttons in the widget.
- "Copy-paste" installs: the admin screen is literally one field and a green *Live* toggle.
- **Responsive first:** dashboard built with an 8-pt grid, font-pairing (Inter) + (Roboto Mono) for numbers.
- **Accessible:** AA color-contrast, keyboard-navigable widget, ARIA labels baked-in.

4. MVP Scope Summary

- 1. **Goal:** Collect > 500 labeled sentiment datapoints within 30 days from three design-partners.
- 2. What ships: P0 features + Zendesk & Intercom connectors + single-screen React dashboard.
- 3. **What doesn't:** Advanced clustering, industry benchmarking, mobile app.
- 4. **Stack:** AWS (API Gateway, Lambda, DynamoDB), React (Vite), Tailwind CSS, Python (FastAPI) for scoring.

5. Timeline:

- Day 1-2 Scaffold repo, Cl, deploy hello-world webhook.
- **Day 3-5** Build widget & Zendesk connector, unit tests.
- **Day 6-7** Dashboard skeleton, CSV export, invite first pilot user.

Next Actions

- Draft the Data Processing Addendum so pilots can legally send you chat logs.
- Prepare a Figma file for the two key screens above; reuse your "Divine-Tech Harmony" color tokens for brand consistency.
- Schedule 30-min install workshops with three target design-partners the week the MVP goes live.

This MVP scope keeps the focus razor-thin, satisfies every "must-have" voiced in validation calls, and gives developers a clear specification they can begin implementing immediately.