SayBetter – Complete Developer Implementation Document

Module: SayBetter
Platform: Laravel + Gemini API
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🎯 Objective

SayBetter is a contextual AI messaging assistant designed to help users improve, rephrase, and reply to communications across professional and informal scenarios. It uses Gemini API to understand tone, rewrite messages, generate replies, and adapt to various contexts like HR, sales, vendor escalation, public posts, and more.

🗺️ Full Screen Map & Tabs

Tab Name	Route/Function	Purpose
Improve My Message	`/saybetter`	Rewrite a given message in 3 tones
Compose a Reply	`/saybetter/reply`	Paste received email → get smart replies
Thread Summarizer	`/saybetter/thread-reply`	Paste long email thread → summary + draft
Follow-Up Email	`/saybetter/follow-up`	Enter meeting notes → follow-up email
Justify Professionally	`/saybetter/justification`	Casual reason → formal justification
Tone Checker	`/saybetter/tone-check`	Detect & improve tone of message
Auto-Complete	`/saybetter/autocomplete`	Start a line → finish full email

Tab Name	Route/Function	Purpose
Translate + Rephrase	`/saybetter/translate`	Non-English input → polished English
Public Reword (WhatsApp)	`/saybetter/social-reword`	Reformat formal text for casual posts
History & Logs	`/saybetter/history`	View previous rewrites/replies
Admin Logs	`/saybetter/logs`	Audit trail for all API calls

🔲 Core Features

🔲 Message Tone Rewriter

- Tones: Professional, Polite, Concise
- Optional tone selector (multi-choice)
- Use-case dropdown: resignation, escalation, complaint, feedback
- Output: side-by-side editable blocks
- Logs: raw input, selected tones, prompt, responses, timestamp

🔲 Smart Reply Generator

- Input: pasted received email
- Output: 2–3 suggested replies (based on selected tones)
- Toggle: professional/polite/assertive
- Editable and exportable

🔲 Advanced Use Cases

🔲 Email Thread Summarizer + Responder

- Input: long mail chain
- Output: summary + AI reply

🔲 Follow-Up Generator (Meetings)

- Input: meeting notes
- Output: professional follow-up with thanks & action items

🔲 Reword for WhatsApp/LinkedIn

- Input: formal text
- Output: conversational, casual post-ready message

🔲 Make Me Sound Confident

- Button beside outputs: rephrases message assertively

🔲 Formal Justification Generator

- Input: casual reason or excuse
- Output: HR-suitable justification mail

🔲 Tone Audit & Suggestions

- Input: pasted message
- Output: tone tags + AI critique/suggestions

🔲 Auto-complete Sentence

- Input: starting sentence
- Output: auto-completed professional message

🔲 Translate + Rephrase

- Input: Hindi or regional language
- Output: translated and polished English response

🔲 Backend Prompt Logic (Examples

Rewriting Prompt:

Rewrite the message below in 3 tones:

1. Professional

2. Polite and empathetic

3. Concise and direct

Message:

"{{ user_input }}"

Reply Prompt:

You received the following email:

"{{ email }}"

Please draft 3 replies in different tones:

1. Professional

2. Polite

3. Assertive

Justification Prompt:

Convert this into a formal justification email for HR:

"{{ input }}"

Tone Audit Prompt:

Analyze the tone of this message. Identify if it is aggressive, passive, or unclear. Suggest corrections.

Message:

"{{ input }}"

🗄️ Database Schema

Table: saybetter_requests

Field	Type
id	INT
user_id / session_id	INT/VARCHAR
use_case_type	VARCHAR
raw_input	TEXT
prompt	TEXT
tone_selected	JSON
use_case_context	VARCHAR
output_professional	TEXT
output_polite	TEXT
output_concise	TEXT
final_output_user_modified	TEXT
reply_outputs	JSON
summary_output	TEXT
translation_language	VARCHAR
confidence_levels	JSON
emotion_tag	VARCHAR
export_format	VARCHAR
created_at	TIMESTAMP

🚦 Rate Limiting & Quota (Free vs Paid)

- Redis key: `saybetter_usage:{user_id or session_id}:{date}`
- Limit per plan:
  - Free: 10 rewrites/day

- ○ Starter: 50/day
  - ○ Pro: 200/day
  - ○ Team/Enterprise: as per seat/license
- UI: show usage bar with upgrade CTA

📤 Export Options

- PDF: DomPDF
- WhatsApp: URL-encoded text
- Email: mailto pre-filled body
- Version for each tone/editable section

📊 Logging & Monitoring

- Log all prompts and responses per request
- Store full request/response for internal audit
- Admin view: filters for user, date, tone, use-case
- Option to redact user input in logs for privacy

🧪 QA Scenarios

Scenario	Expected Output
Rewrite in 2 selected tones	Only 2 responses
Hindi message input	Auto suggest translate option
Email pasted with reply tones	Get 3 contextual replies
Thread input too long	Return summary + polite reply
User hits quota	Show modal with upgrade

🧱 Tech Stack Summary

Layer	Tool / Framework

Backend	Laravel 10+
LLM API	Gemini 2.0 Flash
Frontend	Blade / Vue.js
PDF Export	DomPDF
Auth & Plans	Laravel Jetstream + Cashier
Rate Control	Redis / DB

✅ Developer Setup Checklist

- `.env` contains `GEMINI_API_KEY`
- Routes for all tabs defined under `/saybetter`
- Controller logic separated by use-case
- Unified `GeminiService::generate(prompt)` structure
- Export, tone labels, and quota bar working
- History visible per user/session