Echelon

A FULLY AUTONOMOUS AI AGENTIC EMAIL SYSTEM.

PROBLEM STATEMENT

EMAIL OVERLOAD

- Avg. office worker receives **121 emails/day** ~ (NexaLearning)
- Global email volume at **347B/day** (2023) ~ (Radicati Group)
- Buries crucial info & delays responses

INEFFICIENT SORTING

- Spends **10 hrs/week** drafting emails ~ (NY Post)
- Only ~**10% are truly business-critical/high-priority** ~ (Mailbird Survey)
- Diverts valuable time to low-value tasks

BUSINESS IMPACT

- Email tasks consume ~**28% of an 8-hour** day ~ (McKinsey)
- Each interruption costs up to **23 mins** to refocus ~ (UC Irvine)
- Billions lost yearly in productivity

COGNITIVE OVERLOAD

- Constant context-switching causes fatigue
- **Less than 40%** of the day spent on core tasks ~ (Workfront Report)
- Leads to stress and lower output

IBM HACKATHON GOAL

LEVERAGE IBM GRANITE MODELS

Harness IBM Granite models to automate high-volume tasks demonstrating advanced AI-driven communication.

ELEVATE WORKFLOW EFFICIENCY

Streamline end-to-end operations—like email summarization and prioritization—to boost productivity and reduce response times.

PROMOTE INNOVATION & COLLABORATION

Foster creative AI solutions that integrate seamlessly across platforms, encouraging teams to transform everyday processes and accelerate business growth.

EXISTING SOLUTION PROBLEMS

Generic Drafts

Many current AI email assistants (e.g. Flowrite, Missive) often produce responses that lack personalization and context, resulting in generic and sometimes inaccurate drafts.

Rigid Automation with No Prioritization

AI assistants fail to balance automation and human input, treating all emails equally instead of prioritizing important ones for review.

Limited Voice Integration

Most solutions rely solely on text input, missing robust voice-to-text and text-to-speech features for interactive communication.

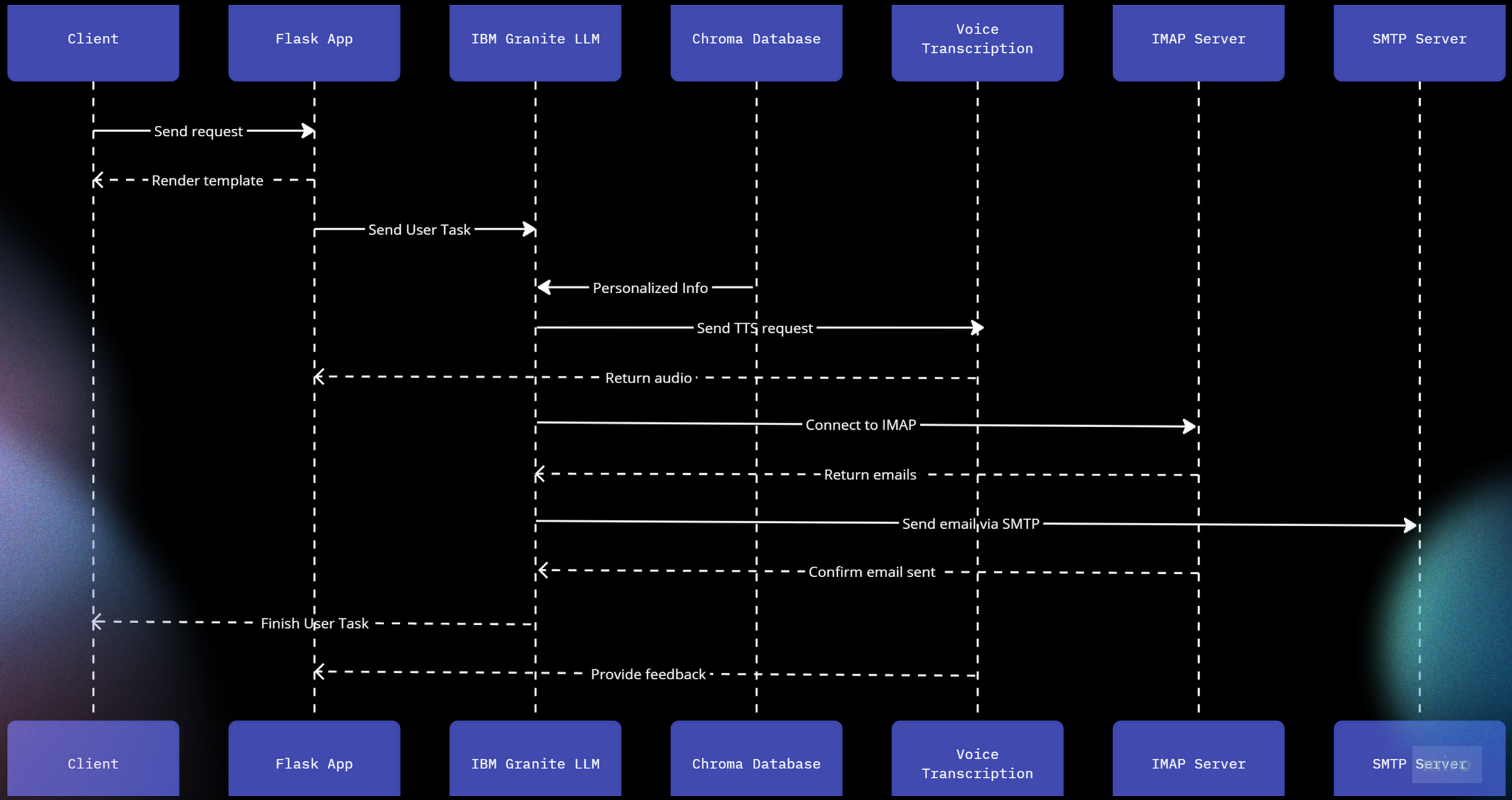
Platform Constraints

Many tools are limited to specific email clients and demand heavy integration, reducing flexibility and true autonomy

ECHELON'S FEATURES

- **Intelligent Email Prioritization**
- **High-Speed Processing**
  (Low latency thanks to local small size IBM Granite Models
- **Automated Replies for Low-Priority Emails**
- **Automatic Email Summarization**
- **Smart Alerts for High-Priority Emails**
- **Real-Time Voice Feedback**
  (Granite 8B's conversational AI features)
- **Multi-Service Integration**
- **Live Reasoning Updates**
- **Hands-Free Voice Interaction**
- **Personalized through RAG**
  (IBM Granite is well suited RAG Applications)

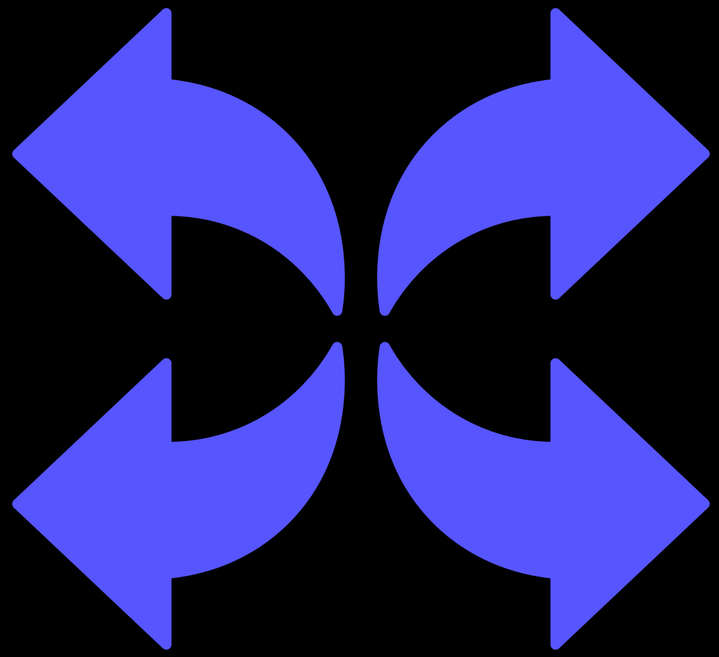
SYSTEM ARCHITECTURE



UNLOCKING A $MULTI BILLION OPPORTUNITY

Explosive Market Growth

The AI-powered email assistant market is projected to soar from $750 million in 2023 to $3.74 billion by 2028, marking a CAGR of 21.1%, according to EinPresswire



High Adoption Rates

A significant 46% of business owners anticipate utilizing AI to generate email responses, indicating strong market acceptance and integration potential, according to National University

Productivity Enhancement

Implementing AI email assistants can lead to a 20% reduction in administrative costs, streamlining operations and boosting efficiency, according to BroScorp

Operational Efficiency

Companies adopting AI solutions have reported saving up to $15 million through improved operations, underscoring the substantial financial benefits of AI integration according to the Australian

FUTURE PLANS

Cross-Platform Data Integration
(eg. Slack, Teams, etc.)

Muti-Agents Collaboration

AI-Retrieved Attachment
Management

VISION: Every single person will have their own Echelon