CogniMail-AI: Intelligent Email & Calendar Management System
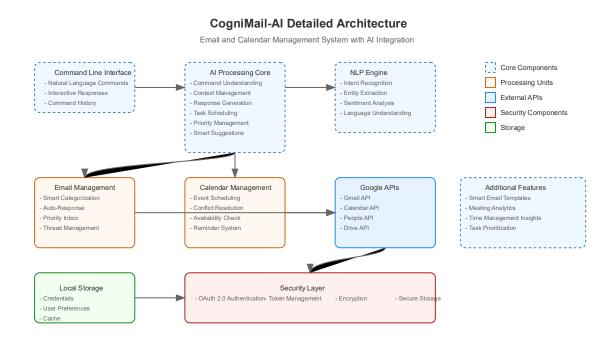
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CogniMail-AI leverages artificial intelligence to streamline email and calendar management through an intuitive command-line interface. The system enables efficient communication and scheduling workflows using natural language processing and intelligent automation.

CogniMail-AI Detailed Architecture

Email and Calendar Management System with AI Integration

Key Components & Features

• Command Line Interface (CLI)

  Natural language processing, interactive responses, command history

• AI Processing Core

  Command understanding, context awareness, smart scheduling, priority management

• Email Management

  Smart categorization, auto-responses, priority inbox, thread organization

• Calendar Management

Intelligent scheduling, conflict resolution, availability optimization

• Security & Integration

OAuth 2.0, end-to-end encryption, Google Workspace integration

Design Benefits

• Modular Architecture: Independent updates, scalability, easy maintenance

• CLI-First Approach: Rapid interaction, minimal overhead, efficient automation

• AI-Driven Processing: Context awareness, personalization, continuous learning

• Security-First Design: Protected data, modern authentication, local storage

System Capabilities

• Streamlined email processing through AI categorization

• Efficient calendar management with smart conflict resolution

• Natural language interaction for improved workflow

• Extensible architecture supporting future enhancements

• Robust security with modern authentication protocols

The system significantly improves email and calendar management efficiency while maintaining strong security measures. Its modular design ensures scalability and future enhancement potential, while the CLI-first approach delivers a streamlined experience for power users.