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1 Pi Monorepo System Architecture

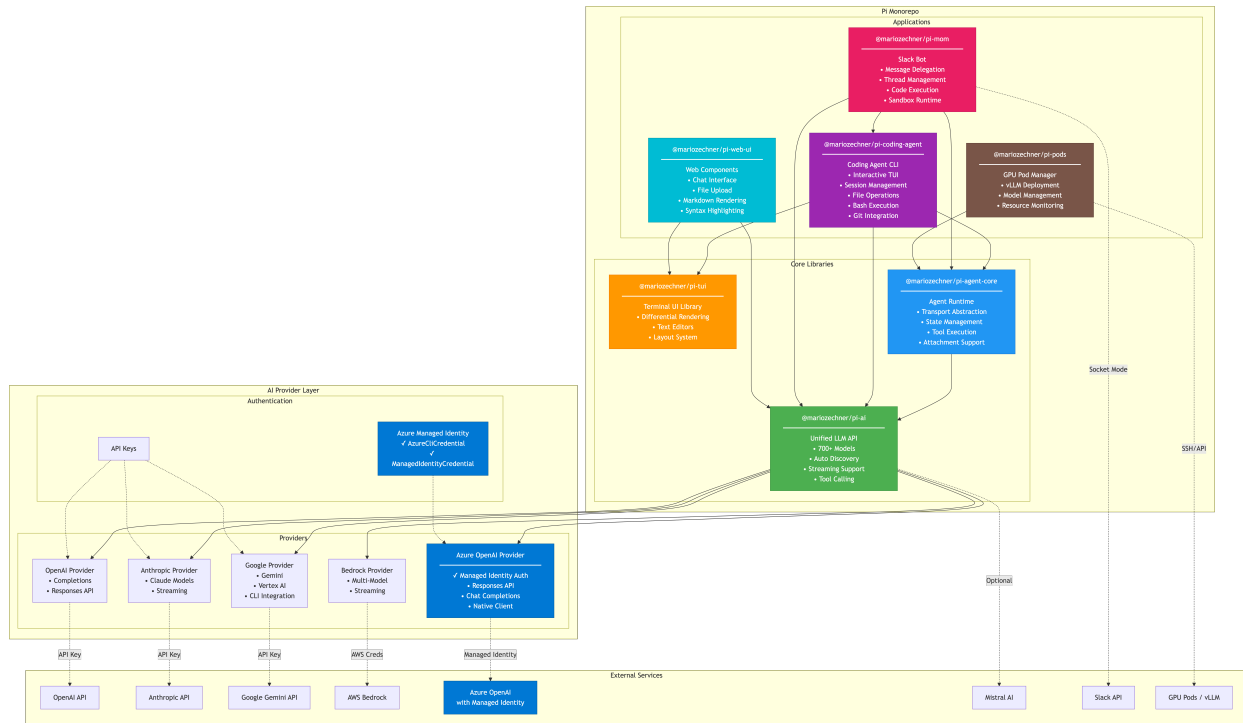


Figure 1: Pi Monorepo System Architecture

1.1 Overview

This diagram shows the complete architecture of the Pi monorepo, including:

- **Core Libraries:** TUI, AI, and Agent Core packages providing fundamental functionality
- **Applications:** Coding Agent CLI, Mom Slack Bot, Web UI, and Pods Manager
- **AI Provider Layer:** Multiple LLM provider integrations with managed authentication
- **External Services:** Cloud AI services, Slack, and GPU infrastructure

1.1.1 Key Features

- **Azure OpenAI with Managed Identity:** Secure, keyless authentication using Azure AD
- **700+ Models:** Auto-discovery across multiple providers
- **Unified API:** Single interface for all LLM providers
- **Tool Calling:** Built-in support for function calling and agent tools
- **Streaming:** Real-time response streaming for all providers