**Dual-Platform Delivery Strategy: Desktop App for Professionals, Web App for Individuals**

**1. Purpose and Overview**

This document specifies a dual-platform approach for your unified multi-AI workspace, providing both a full-featured desktop application and a broadly accessible web application. The goal is to deliver tailored experiences—high performance, privacy, and integration for professionals and teams, and instant availability for individuals, students, and light users.

**2. Platform Types and Target Users**

| **Platform Type** | **Target Users** | **Key Benefits** |
| --- | --- | --- |
| Desktop App | Professionals, Team/Enterprise, Analysts | Performance, security, offline access |
| Web App | Individuals, Students, Freelancers | Universal access, instant onboarding |

**3. Desktop Application Specification**

**3.1 Core Features**

* **Full OS Integration:** Native access to file system, notifications, and enhanced UI responsiveness.
* **Offline Capability:** Core workspace features and AI integration remain functional without an active internet connection (subject to API availability).
* **Security & Privacy:** Local storage encryption, data residency controls for regulated industries, customizable security policies.
* **Team Productivity:** Advanced collaboration tools (live editing, multi-user chat, permission settings), admin controls, and audit trails.

**3.2 Technical Stack**

* **Frontend:** Electron or Tauri (for cross-platform builds); React/TypeScript UI.
* **Backend:** Local or hybrid (local + cloud sync) Node.js/Python microservices.
* **Auto-update & Install:** Seamless update mechanisms; MSI/DMG/Installer for platforms.
* **Deployment:** Separate builds for Windows, macOS, and Linux; enterprise deployment options.

**3.3 Suggested Use Cases**

* Analysts needing fast access to large files and heavy AI workflows.
* Teams collaborating in secure or offline environments.
* Enterprises with strict compliance or data security standards.

**4. Web Application Specification**

**4.1 Core Features**

* **No Installation:** Browser-based; accessible anywhere instantly.
* **Universal Compatibility:** Works across Windows, Mac, Linux, ChromeOS, iPad, Android, etc.
* **Centralized Updates:** All users have the latest version automatically.
* **Collaboration:** Multi-user chat, document sharing, and workflow management in the cloud.

**4.2 Technical Stack**

* **Frontend:** React/TypeScript SPA (Single Page Application) hosted on a CDN.
* **Backend:** Node.js or Python (FastAPI/Django) with managed cloud hosting.
* **Authentication:** OAuth2, SSO, with optional 2FA.
* **Data Storage:** Secure cloud (AWS/GCP/Azure), encrypted in transit and at rest.

**4.3 Suggested Use Cases**

* Students and educators working on class projects.
* Freelancers or first-time users exploring AI tools.
* Casual users starting with limited needs, upgrading to desktop when needed.

**5. Unified Account and Data Model**

* **Single Sign-On:** Users access both platforms with a unified account and consistent permissions.
* **Synced History and Projects:** Projects, chat histories, AI integrations, and files are available on both desktop and web, with secure real-time sync.
* **Role-Based Access:** Teams and organizations can assign roles and access policies that apply platform-wide.

**6. Migration and User Pathways**

* **Onboarding:** All new users begin on the web app for immediate access.
* **Upgrade Option:** Clear prompts and flows enable easy migration to the desktop app, importing all history and settings.
* **Flexibility:** Users can work across both platforms seamlessly as their needs evolve.

**7. Security, Compliance, and Support**

* **Encryption Everywhere:** Data encrypted in transit and at rest, both cloud and local.
* **Compliance Support:** Tools for HIPAA, GDPR, SOC2 reporting and export.
* **Device Management:** Admin controls for device registration, remote lockout, and forced updates (for enterprise deployments).

**8. Best Practice Considerations**

* Start web-first to quickly validate features and onboarding.
* Invest in desktop app for premium/enterprise market and high-value professional features.
* Maintain a consistent, intuitive user experience and navigation across both platforms.
* Offer extensive documentation and support to encourage smooth cross-platform adoption.

This dual-platform approach ensures unified AI workspace will serve a diverse user base, address enterprise needs, and scale flexibly as usage patterns demand. Give this specification to your product and engineering teams to inform design, tech stack, and phased rollouts.