Onboarding Roadmap & Product Overview

Department: Human Resources & Engineering
Target Audience: New Hires

1. WELCOME TO THE TEAM
We are thrilled to have you join Intra. You are now part of a team dedicated to redefining human-computer interaction through Agentic AI. This document serves as your roadmap for the first month and provides a high-level overview of our technology stack.

2. ONBOARDING TIMELINE
2.1 Week 1: Setup and Orientation
- Day 1: HR Induction, Laptop setup, Email & Slack access.
- Day 2: Security Training, VPN configuration, GitHub access grant.
- Day 3: Introduction to the 'Intra Neural Mesh' (see Section 3).
- Day 4: Dev Environment Setup (Docker, Python Poetry).
- Day 5: Deploy your first 'Hello World' agent to the staging environment.

2.2 Week 2: Deep Dive
- Attend 'Architecture 101' workshops.
- Pair programming sessions with your buddy.
- Read the Engineering Guidelines and complete the internal coding quiz.

2.3 Week 3: First Contribution
- Pick up a 'Good First Issue' from the Jira backlog.
- Submit your first Pull Request.

2.4 Week 4: Independence
- Full participation in Sprint Planning.
- Ownership of a small feature or bug fix.

3. PRODUCT OVERVIEW: INTRA NEURAL MESH

Our flagship product, the Intra Neural Mesh, is a multi-agent orchestration platform. Unlike simple chatbots, the Mesh allows autonomous agents to collaborate to solve complex problems.

3.1 Core Value Proposition
Enterprises use Intra to automate complex workflows that require reasoning. Example: A Supply Chain Agent detects a delay, communicates with a Vendor Agent to renegotiate, and updates the ERP system automatically.

3.2 Key Modules
A. The Cortex (Orchestrator)
The central brain that breaks down high-level user goals into sub-tasks and assigns them to specialized agents.

B. Perception Layer
Handles inputs from the outside world (Emails, APIs, PDF documents). Uses OCR and multimodal models to understand context.

C. Action Bus
A secure gateway that allows agents to execute tools (e.g., send email, query SQL, call REST APIs). This layer enforces strict permissioning to prevent unauthorized actions.

4. ARCHITECTURE HIGHLIGHTS

The platform is built on a microservices architecture running on Kubernetes.

- Backend: FastAPI (Python) for agent logic.
- Frontend: React/Next.js for the control dashboard.
- Database: PostgreSQL for relational data, Weaviate for vector embeddings.
- Message Queue: RabbitMQ for inter-agent communication.
- LLM Provider: Hybrid approach using OpenAI GPT-4o and self-hosted Llama 3 models.

5. DEVELOPMENT ENVIRONMENT SETUP

To begin contributing, follow these steps:

1. Clone the repository:
   `git clone git@github.com:intra-ai/neural-mesh.git`

2. Install dependencies:
   We use Poetry for dependency management.
   `poetry install`

3. Set up environment variables:
   Copy `.env.example` to `.env`. Contact your manager for the development API keys.

4. Spin up local infrastructure:
   `docker-compose up -d` (This starts Postgres, Redis, and Weaviate).

5. Run the server:
   `poetry run uvicorn main:app --reload`

If you encounter issues, consult the Wiki or ask in the #dev-support Slack channel.

6. KEY CONTACTS

Use these contacts for specific issues:

- IT Support: it-support@intra.ai
- HR: hr@intra.ai
- Security Operations: sec-ops@intra.ai
- Product Owner: sarah.connor@intra.ai
- CTO: miles.dyson@intra.ai

Welcome aboard!