Project Title: AgentFlow – AI-Powered Collaborative Project Manager

Tracks:

1. **PNC Track:** (Refer to attached PNC image)

2. **NVIDIA Track:** Built using **NVIDIA NeMo** for agentic AI orchestration and reasoning.

3. **Startup Track:** Focused on developing a scalable SaaS startup platform.

Overview:

Adjacent is an intelligent project management platform powered by a network of **autonomous AI agents** that collaborate to automatically generate, organize, and maintain a **Jira-style project board**. The system transforms raw project data—such as text, meeting notes, videos, and uploaded files—into structured, actionable plans.

How It Works:

1. **Data Ingestion:**
    Users upload or connect various project inputs, including meeting recordings/notes, transcripts, or documents.

2. **Lead Agent:**
    A "Lead Agent" processes this data to gain full project context and understanding. It identifies goals, key milestones, and dependencies. Then identifies "<u>tensions</u>" within the whole project.

3. **Task Assignment:**
    The lead agent spawns **specialized sub-agents** (e.g., design, engineering, marketing, and planning agents). Each sub-agent analyzes a specific domain and collaborates to draft detailed deliverables. The deliverables and company profile (information such as codebases/files, description, etc.) are compiled, and specific live "<u>tensions</u>" within the company are identified and created

4. **Output Generation:**
   The agents collectively build a *dynamic* **Jira board** within our platform, organizing:

   - Task cards with detailed descriptions and dependencies

   - AI-generated priorities and deadlines

   - Status labels (To-Do, In Progress, Review, Done)

5. **User Interaction:**
   A built-in **chatbot interface** allows users to ask questions about tasks, priorities, or timelines, and make live edits. Any changes are instantly synchronized across the AI-generated board.

Final Output:

- A **fully populated Jira-style board** with clear task breakdowns, assigned responsibilities, and AI-determined priorities.

- **Lifecycle tracking** of the product from ideation to delivery.

- An **interactive chat assistant** for continuous project updates and clarifications.

Vision:

AgentFlow aims to redefine team productivity by combining **agentic AI collaboration** and **automated project structuring**, eliminating the manual overhead of planning and allowing teams to focus on execution and innovation.

The halo product, or the second part, is a live agent who compiles all the information and identifies **"Tensions"** within the company/project. A tension would be organic work that emerges when a gap between *what is* and *what should be* is detected. New projects are born from newly created or resolved tensions and additions.

🧠 1. Lead Agent (Project Orchestrator)

- Central controller that understands all project inputs (notes, files, videos, etc.).

- Defines goals, context, and overall scope.

- Delegates tasks to the other four agents and ensures consistency across outputs.

- Continuously monitors progress and updates the Jira board as new data comes in.

⚙️ 2. Technical Agent

- Handles all **engineering and technical planning**.

- Breaks requirements into tasks, defines architecture, and sets dependencies.

- Works with sub-processes for testing, version control, and integrations.

- Outputs detailed developer tickets for the Jira board.

🎨 3. Design & Product Agent

- Focuses on **UI/UX**, user flow, and product strategy.

- Translates user goals and feedback into design tasks and mockup milestones.

- Ensures that technical tasks align with product priorities and user needs.

📊 4. Operations & Management Agent

- Manages project organization, **timelines, priorities, and resources**.

- Uses AI to rank tasks by urgency and importance.

- Assigns deadlines, estimates effort, and tracks overall progress.

- Generates reports and summaries for the team.

💬 5. Communication Agent

- Handles **meeting notes, chat interactions, and documentation**.

- Converts meeting transcripts into actionable items.

- Acts as a **chatbot interface** for users to ask questions, make changes, or get project summaries.

- Keeps all agents in sync through continuous updates.

This 5-agent structure keeps the system clean:

- **Lead Agent** = brain

- **Technical Agent** = builder

- **Design/Product Agent** = visionary

- **Operations/Management Agent** = organizer

- **Communication Agent** = connector

Project Architecture:

Summary:

Section pages:
1) Putting company description/website, etc.
2) A place for putting documents, files, github/any codebase
3) A place for putting meeting recording files, transcripts, etc.
4) Finally, the project kanban/work board with epics, sprites, etc. Then the agentic identified "tensions"

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Project section page Structure:
    ├── 1) Company Profile & Context
    ├── 2) Knowledge Hub
    │       ├── Docs & Files
    │       ├── Repositories / Code
    │       └── Tech Architecture
    ├── 3) Meetings & Comms
    │       ├── Recordings
    │       ├── Transcripts & Notes
    │       ├── Action Items
    │       └── Decision Log
    └── 4) Work Board
            ├── Epics
            ├── Sprints / Kanban
            └── Reports & Insights
```