SW-4 — CIE Applications and Platform Development

Digitizing Innovation at CIE: Smarter Processes, Deeper Insights

Project Overview:

The CIE Applications Platform aims to modernize and unify all internal workflows and data collection methods at the Center for Innovation and Entrepreneurship (CIE). The platform will replace fragmented tools like Google Forms and paper-based formats with a centralized, modular, and intelligent web application.

Description:

This project envisions a comprehensive digital platform to streamline CIE's data collection, tracking, and reporting processes. By leveraging technologies like Next.js and PostgreSQL, the platform will serve as a multi-tenant and modular system, capable of scaling across departments. Course-related worksheets, including NABC and Empathy Maps, will be digitized, enabling better environmental sustainability and analytics. The platform will also integrate AI/GenAI and Computer Vision to enhance form processing and decision support

Objective:

- Build a centralized, extensible digital platform for CIE workflows and data collection.
- Digitize all key paper-based course worksheets for easier access and insight generation.
- Develop a scalable, multi-tenant system with admin controls and modular plug-in support.
- Leverage AI and Computer Vision where applicable to enhance platform intelligence.

Expected Outcomes:

- A functioning foundational platform with core admin and workflow modules.
- Digital versions of all key course worksheets integrated into the system.
- A reusable framework to enable rapid development of future modules

Key Benefits:

- Improved efficiency in information gathering, tracking, and decision-making.
- Centralized data enabling better analytics and insights.
- Eco-friendly solution through paperless operations.
- Scalable architecture for use by other departments or institutions.
- Enhanced user experience for admins, students, and faculty

Target Users/Customer:

- CIE Faculty and Administrators: for workflow, analytics, and decision-making
- Students: to submit assignments digitally
- Department Heads & Admins: for future multi-tenant use

Date and Duration:

- Start Date: June 2025
- Planned Duration: 2 months for Phase 1 (core platform and basic modules)

Team SW-4

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