

Student Admin Assistant – IBM watsonx Orchestrate Hackathon Submission Summary

Project Overview

This proof-of-concept demonstrates an agentic AI assistant built with IBM watsonx Orchestrate to reduce student administration bottlenecks. The agent supports course registration, detects timetable clashes, suggests alternate sessions, generates weekly timetables, and drafts professional registrar emails.

Key Workflows

- Course Registration Support: Student selects courses; agent checks availability and confirms registration choices.
- Timetable Clash Detection: Agent identifies overlapping sessions and recommends alternative slots.
- Weekly Timetable Generation: Produces a clear Mon–Fri schedule view from selected sessions.
- Academic Email Drafting: Generates compliant, professional emails to the registrar or department.

Compliance & Governance Layer

- No Personal Data: The agent avoids collecting student IDs, phone numbers, or addresses.
- Confirmation Before Actions: Registration is always presented as a proof-of-concept requiring user confirmation.
- Dataset as Source of Truth: The agent does not invent schedules outside the uploaded mock timetable.
- Structured, Non-Redundant Output: Responses are concise with headings and bullets.

Demo Prompts Shown to Judges

- “I want to register for CS101, MAT101, and PHY105 (carry-over). Please help.”
- “Check clashes and suggest the best alternative sessions.”
- “Build my weekly timetable using the best non-clashing options.”
- “Draft an email to the registrar confirming my clash-free selection.”

Why This Fits AI Demystified

This solution shows practical AI adoption: a lightweight assistant that orchestrates reasoning + structured workflows + knowledge grounding, making university admin tasks faster, safer, and more approachable without requiring complex enterprise integrations.