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Al Solution Engineer Test

Type: "Autonomy", Updated at: October 2025

1. Goal

Design and implement a **minimal "AI CEO"** that can simulate running a small company for one workday. Your AI CEO should:

- Know about employees, clients, and events.
- Receive inputs (messages or changes).
- Plan and make decisions (who should do what, when, and why).
- Take actions (send emails, assign tasks, update CRM, etc.).
- Explain its reasoning and summarize what happened that day.

You can implement this with any technology —

- → custom code (Python, TypeScript, etc.),
- → orchestration tools (n8n, LangFlow, Flowise, Zapier, etc.),
- → or a **hybrid** setup (workflow tool + custom logic or APIs).

You are designing a **decision-making system**, not a polished app. We care about **autonomy**, **reasoning clarity**, **and clean design**, not the specific stack.

2. Scenario

You're simulating one workday of a small software agency.

Throughout the day, the AI CEO faces three events:

- 1. A key client asks to **accelerate** a project.
- 2. A **new lead** arrives asking for a proposal.
- 3. One employee becomes unavailable mid-day.

Your AI CEO must autonomously:

- React to each event.
- Reassign or reschedule work if needed.
- Communicate appropriately (email/message/task).
- Keep decisions within resource/budget constraints.
- Produce an end-of-day summary explaining what happened and why.

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3. Requirements

Core Functionality

Your system should be able to:

- Run a one-day simulation (either by running a script or triggering a workflow).
- Maintain state for employees, clients, and events.
- Follow an "observe → plan → act → log" cycle at least once.
- Include some notion of **constraints** (time, cost, or availability).
- Log decisions and reasoning behind them.

Actions (use any form)

Implement at least three simulated actions, such as:

- Sending an email/message (real or simulated).
- Creating a task or calendar item.
- Updating a client/project record.
- Generating a short plan or report.

You can implement these via:

- Code (functions, APIs, etc.)
- Workflow nodes (n8n flows, LangFlow blocks, etc.)
- Third-party connectors (Notion, Slack, Airtable, etc.)

4. Deliverables

At the end of a simulated day, your system should produce:

- A summary or report (text or markdown) describing:
 - What happened
 - What actions were taken
 - Why decisions were made
 - Any risks or follow-ups for tomorrow
- Logs or data that show actions were taken (e.g. JSON, console output, workflow logs).

You can submit:

- A GitHub repo (if code-based).
- Or a **shared workspace/export** (if using n8n, LangFlow, Zapier, etc.).