

Scenario Sketching

Introduction

This document outlines the approach to integrating generative AI into project workflows, informed by the Discover Phase. Key findings from market research, technology reviews, and particularly the interview with my manager, have been instrumental in shaping this strategy.

The interview with my stakeholder(Diederik) highlighted the significant potential of AI to enhance operational efficiency and precision in project management. Specifically, generative AI can automate complex processes and transform overarching project goals into actionable tasks aligned with strategic objectives. This automation not only streamlines task execution but also facilitates comprehensive monitoring of all project components.

The following scenarios will outline the functionalities of two AI bots – the **Project Decomposition Bot** and the **Sub-Element Breakdown Bot**. These scenarios aim to demonstrate the practical application of the gathered insights. The bots will showcase how AI can exceed project management needs by providing detailed task breakdowns and guiding systematic project planning. Each scenario will illustrate how the bots can transform raw project objectives into structured, manageable components, ultimately enhancing collaboration across departments.

These scenarios will serve as blueprints, detailing how the bots can address specific organizational challenges in real-world settings. The goal is to demonstrate that AI can improve project efficiency, accuracy, and adaptability.

In essence, these scenarios bridge the gap between theoretical capabilities of generative AI and practical applications, ensuring alignment with both strategic goals and day-to-day realities. By detailing these scenarios, it is anticipated that the bots can be further refined through stakeholder feedback, ultimately leading to their full integration. This step is crucial for confidently advancing into the development and deployment phases of AI-enhanced project workflows.

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1. Scenario for Bot for Project Decomposition Guide (Project Planner Bot)

Project Context: Organizational shift towards a hybrid work environment.

Objective: Develop a comprehensive plan for transitioning to a hybrid work model, including physical office reorganization, IT infrastructure updates, and policy development.

Steps:

- **Input:** The HR and IT departments input their broad goals for the transition, such as redefining workspace usage, enhancing remote access capabilities, and updating employee work policies.
- **Bot Functionality:** The bot outlines each major goal and decomposes it into actionable steps. For example, "Redefining Workspace Usage" could be detailed into steps like surveying current space utilization, designing new floor plans, and implementing flexible seating arrangements.
- **Output:** Produces a JSON formatted guide that includes each step with detailed action points, dependencies (survey results needed before floor plan redesign), and deadlines.
- **Usage:** The guide serves as a master checklist and timeline for the transition team, helping to ensure that every component of the project is planned out and nothing is overlooked.

Benefits:

- **Clarity:** Provides a clear roadmap for complex projects, ensuring all stakeholders have a common understanding of tasks and timelines.
 - **Coordination:** Helps synchronize efforts across different departments, preventing bottlenecks and overlapping responsibilities.
 - **Adaptability:** Can be customized for any organizational change project, making it a versatile tool for planning.
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2. Scenario for Bot for Sub-Element Breakdown (Sub-Task Automator Bot)

Project Context: A software development project aimed at launching a new mobile application.

Objective: Ensure that every aspect of the software development is detailed enough to assign to different teams without overlap or gaps.

Steps:

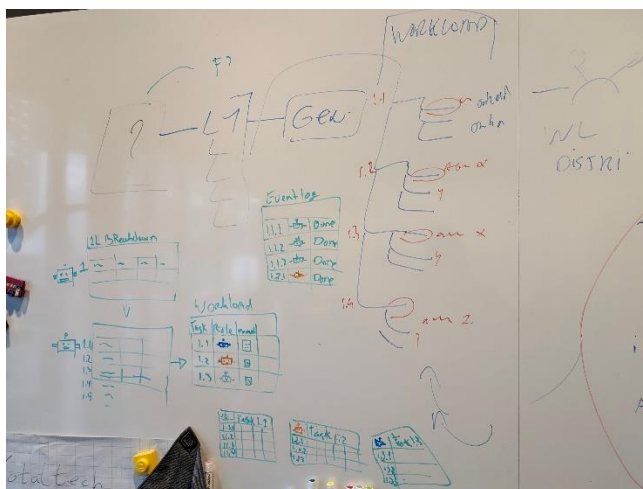
- **Input:** The project manager inputs the main objectives and key deliverables for the mobile application, such as user interface design, backend development, and security testing.
- **Bot Functionality:** The bot takes the main objectives and breaks them down into detailed sub-elements. For example, "User Interface Design" could be broken down into sketching wireframes, creating a color scheme, and user feedback sessions.
- **Output:** The bot generates a structured JSON output that lists each sub-element with detailed descriptions, dependencies (like needing the color scheme approved before finalizing the wireframes), timelines, and key personnel responsible for each task.
- **Usage:** This detailed breakdown allows the project manager to easily assign tasks to appropriate teams and set realistic timelines, ensuring that all aspects of the project are covered and interconnected.
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Benefits:

- **Efficiency:** Reduces the time needed for project managers to break down and assign tasks manually.
- **Accuracy:** Ensures all tasks are defined with all necessary details, reducing the risk of miscommunication.
- **Scalability:** Can be used repeatedly for different projects within the organization, adapting to different scopes and objectives.



This is how the workflow would be structured in the first level breakdown.



In this image I sketched out how the two different levels segment the initial input and processes that. Indexing the previous breakdown in order backtrack and send it off to other agents.