

Requirements the Bots / Agents / Assistants

Requirements for Project Breakdown Bot

1. Input Handling

- Ability to accept high-level project tasks as input and parse them for processing.
- Input should include project objectives, key results, and scope details.

2. Sub-Element Decomposition

- Automated decomposition of high-level tasks into detailed sub-tasks.
- Each sub-task should include specific actions, dependencies, and requirements.

3. Dependency Mapping

- Automatically identify and map dependencies between sub-tasks to ensure proper sequencing and resource allocation.

4. Output Specification

- Generate outputs in **JSON format**, ensuring consistency with existing data structures.
- Each sub-element must include:
 - Name
 - Detailed description
 - Scope (inclusions and exclusions)
 - Dependencies (other related sub-tasks)
 - Requirements (knowledge and resources needed, with a limit of 3-5 items)
 - Unique identification index for tracking and reference

5. Performance Requirements

- The bot should process input and produce the output within a reasonable time frame.
 - Ensure high accuracy in the decomposition to minimize the need for manual corrections.
-

Requirements for Project Decomposition Guide Bot

1. Input Processing

- Ability to receive overall project goals and objectives as input.

- Handle multiple inputs simultaneously for complex projects involving various departments or teams.

2. Guided Breakdown

- Systematically break down the overall project into primary actionable steps, indexed logically (e.g., 1.1, 1.2, etc.).
- Each step should clearly define the tasks necessary to achieve specific project milestones.

3. Comprehensive Output Details

- Outputs must be in JSON format, compatible with project management tools.
- Each step must include:
 - Step name
 - Detailed description of the task
 - Scope of the step (what is included and what is not)
 - Dependencies on other project steps
 - Specific requirements for completion (limited to a maximum of 5 items)

4. Scalability and Adaptability

- The bot should be scalable to handle projects of varying sizes and complexities without loss of performance.
- Capable of adapting to different project types with minimal configuration changes.

5. Integration Capability

- Ensure seamless integration with existing project management software and tools.
- Support data interchange with other enterprise systems to maintain data consistency and accuracy.

6. Security and Compliance

- Adhere to organizational security standards and data privacy regulations.
- Include mechanisms for secure data handling and processing to prevent unauthorized access.

Evaluation Criteria

Sub-Element Breakdown Bot

1. Input Handling

- **Criteria:** Accuracy of input parsing, ability to handle complex project descriptions without errors.

2. Sub-Element Decomposition

- **Criteria:** Completeness of task breakdown, accuracy in maintaining the integrity of the original project scope, and detailed task delineation.

3. Dependency Mapping

- **Criteria:** Correct identification and logical mapping of dependencies that reflect actual project needs and constraints.

4. Output Specification

- **Criteria:** Compliance with the JSON format specifications, correctness of data structure, and completeness of each sub-task's details. Ensure all fields are populated according to specifications with no data truncation.

5. Performance Requirements

- **Criteria:** Time efficiency (e.g., the bot must process inputs and generate outputs within X seconds), and reliability (e.g., the bot performs consistently over Y number of cycles without failure).
-

Project Decomposition Guide Bot

1. Input Processing

- **Criteria:** The bot must handle varied input formats without error and interpret complex multi-component project goals accurately.

2. **Guided Breakdown**

- **Criteria:** The clarity of the breakdown, correctness of the action steps relative to the overall goal, and logical indexing of each step.

3. **Comprehensive Output Details**

- **Criteria:** Adherence to JSON output specifications, accuracy of detailed descriptions, and completeness of scope and requirement listings. Each element must be clearly defined and match project documentation standards.

4. **Scalability and Adaptability**

- **Criteria:** The bot should demonstrate efficiency and accuracy across projects of varying sizes and complexities. Test for performance degradation as project size increases.

5. **Integration Capability**

- **Criteria:** Seamless integration with at least X number of existing project management tools, verified through API connectivity tests and data exchange verification.

6. **Security and Compliance**

- **Criteria:** Adherence to organizational IT security policies, successful completion of vulnerability assessments, and compliance with data protection regulations.
-