10 Ways to Guide Al Agent Behavior

Using RequirementAgent for predictable multi-turn workflows

Why we built the RequirementAgent

When we started building agentic systems, we quickly hit a problem:

- 1. Fixed workflows were too rigid.
- 2. Unconstrained agents were too unpredictable.

We needed a way to **guide behavior at every step** of an interaction, without writing control logic or constantly tweaking prompts.

The solution: #RequirementAgent

It lets you define **constraints** — simple rules agents must follow.

Examples:

- Only run Tool A after Tool B
- Use a tool exactly once, no more
- Ask a human before sending an email
- Stop immediately if sensitive content appears

Why it matters

This makes agent behavior predictable and reliable, without:

- Hardcoding logic
- Relying on fragile prompts

It's ideal for:

- Multi-agent handoff and delegation
- Minimizing hallucinations in tool-driven workflows
- Human-in-the-loop processes
- ReAct-style planning and reasoning

Available now in #BeeAl

We've been using this pattern internally for weeks — it's been invaluable.

Now, it's available to everyone in the **BeeAl framework**.

This deck contains 10 real examples — from simple ordering to full agent coordination.

1. Require context before tool use

Get the user's location before checking the weather

2. Require tool use exactly once

Must use price_estimator exactly once at any time

3. Start with analysis, only once

Analyze the task before taking action

```
agent = RequirementAgent(
    tools=[analyze_task],
    requirements=[
        ConditionalRequirement(
            analyze_task,
            force_at_step=1, # Must be the first tool used
            max_invocations=1, # Can only be used once
    )
]
```

4. Retry search with rephrasing

Retry up to 3 times if search is empty

```
class RetryWithRephrasing(Requirement):
    # ...
    async def run(...):
        if last_step.is_empty():
            return [Rule(target="rephrase_tool", forced=True)]

agent = RequirementAgent(
        tools=[rephrase_tool, wikipedia_search_tool],
        requirements=[
            RetryWithRephrasing(wikipedia_search_tool),
            ConditionalRequirement(wikipedia_search_tool, max_invocations=3), # Max 3 times
]
)
```

5. Multi-agent handoff with constraints

Use Destination Expert before Weather Expert

```
agent = RequirementAgent(
    tools=[
        HandoffTool(destination_expert),
        HandoffTool(weather_expert)
    requirements=[
        ConditionalRequirement(
            "weather_expert",
            only_after="destination_expert"
```

6. ReAct loop control

Alternate tools and reasoning; avoid consecutive thinking

7. Require one tool before another

Search flights before booking

```
agent = RequirementAgent(
    tools=[search_flights, book_flight],
    requirements=[
        ConditionalRequirement(
            book_flight,
            only_after=[search_flights],
        )
    ]
)
```

8. Enforce final action before answer

Send summary before final answer

9. Ask user before sensitive tools

Always ask before sending an email to the manager

10. Stop if sensitive data detected

Palt if credit card number appears in output

```
class PrematureStopRequirement(Requirement):
    async def run(...):
        text = last_output.get_text_content()
        if re.search(self.pattern, text):
            return [Rule(target="final_answer", forced=True)]
agent = RequirementAgent(
    tools=[log_reviewer],
    requirements=[
        PrematureStopRequirement(
            pattern=r"\b\d\{4\}[\s-]?\d\{4\}[\s-]?\d\{4\}[\s-]?\d\{4\}\b", # Credit card pattern
            reason="output contains credit card numbers"
```

Thanks!

Which one would you use first?

Repository: github.com/matoushavlena/beeai-requirement-agent-examples

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