

lab-05-interaction-models

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Lab 05: Copilot Interaction Models (Ask, Edit, Agent)

Module: 1

Duration: 25 minutes

Part: Advanced GitHub Copilot (Part 2)

Objectives

By the end of this lab, you will:

- Understand the three primary interaction models in GitHub Copilot
- Know when to use Ask, Edit, and Agent modes
- Experience the differences through hands-on exercises
- Recognize Agent Mode as a distinct execution model

Prerequisites

- Completion of Part 1 labs (or equivalent Copilot experience)
- VS Code with GitHub Copilot extension
- Access to the TaskManager workshop repository

Background

GitHub Copilot in VS Code offers three distinct interaction models, each optimized for different workflows:

1. Ask Mode (Informational)

- **Purpose:** Learning, exploration, explanation
- **Behavior:** Provides answers without making changes
- **Use when:** You need to understand code, patterns, or concepts

2. Edit Mode (Localized Changes)

- **Purpose:** Scoped, targeted code modifications
- **Behavior:** Makes direct edits to specific files
- **Use when:** You know exactly what to change and where

3. Agent Mode (Multi-Step Workflows)

- **Purpose:** Complex, repository-level tasks
- **Behavior:** Plan → execute → review with human checkpoints
- **Use when:** Work spans multiple files or requires analysis
- **Key trait:** Human-in-the-loop by design

Lab Structure

You'll perform **the same task** using all three modes to understand their strengths and limitations.

The Task

Scenario: You need to add a new property `Priority` to the `Task` entity in the Domain layer and ensure it's properly handled throughout the codebase.

Exercise 1: Ask Mode (5 minutes)

Instructions

1. Open **Copilot Chat** in VS Code
2. Ensure you're in **Ask mode** (default chat behavior)
3. Enter this prompt:

I want to add a Priority property (Low, Medium, High) to the Task entity. How should I implement this following Clean Architecture and DDD patterns?

1. Review the response

Expected Outcome

Copilot will:

- Explain how to add the property
- Suggest using a Value Object for Priority
- Describe the pattern, but **not make any changes**

Questions to Consider

- Did Copilot provide enough detail to implement this yourself?
 - What follow-up questions would you ask?
 - When is this mode most valuable?
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Exercise 2: Edit Mode (10 minutes)

Instructions

1. Open the file: `src/TaskManager.Domain/Tasks/Task.cs`
2. Open **Copilot Chat** and switch to **Edit Mode**
3. Use this prompt:

Add a Priority property to this Task entity using a Priority value object. Priority should have three levels: Low, Medium, High.

1. Review the proposed changes
2. Accept or modify the edits

Expected Outcome

Copilot will:

- Modify the current file directly
- Add the Priority property
- May create or suggest a Priority value object

Questions to Consider

- Did Edit Mode make changes beyond the current file?
- What happens if the change requires updates elsewhere?
- When is Edit Mode the right choice?

Challenge

Try using Edit Mode to:

- Create the `Priority.cs` value object file

- Update the Task constructor to include Priority

Did it work smoothly for multi-file changes?

Exercise 3: Agent Mode (10 minutes)

Instructions

1. Open **Copilot Chat**
2. Switch to **Agent Mode** (look for the Agent mode toggle/button)
3. Use this prompt:

Add a Priority property (Low, Medium, High) to the Task entity following DDD patterns.

Ensure the change is properly integrated across Domain, Application, and Api layers.

1. **Observe the Agent's process:**
 - Planning phase
 - File analysis
 - Proposed changes
 - Checkpoints for your review
2. Review each step before proceeding
3. Accept or reject individual changes

Expected Outcome

Agent Mode will:

1. **Analyze** the codebase structure
2. **Plan** the changes across multiple files
3. **Propose** changes in stages:
 - Domain layer (value object + entity)
 - Application layer (if needed)
 - Api layer (request/response mapping)
4. **Wait for your approval** at key checkpoints

Questions to Consider

- How did Agent Mode's approach differ from Edit Mode?
 - What visibility did you have into the Agent's reasoning?
 - When would you prefer Agent Mode over Edit Mode?
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Comparison Table

Create your own comparison based on the exercises:

Aspect	Ask Mode	Edit Mode	Agent Mode
Speed	[Your observation]	[Your observation]	[Your observation]
Scope	[Your observation]	[Your observation]	[Your observation]
Control	[Your observation]	[Your observation]	[Your observation]
Best For	[Your observation]	[Your observation]	[Your observation]

Key Takeaways

Ask Mode

- ✅ Use for: Learning, exploration, gathering context
- ❌ Don't use for: Making changes, implementing features

Edit Mode

- ✅ Use for: Localized, scoped changes you can clearly describe
- ❌ Don't use for: Multi-file refactors, exploratory work

Agent Mode

- ✅ Use for: Complex workflows, repository-level analysis, staged changes
 - ❌ Don't use for: Simple edits, quick fixes
 - ⚠️ Remember: Agent Mode is **not just "better chat"** — it's a different execution model
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Reflection Questions

1. Which mode felt most natural for this task? Why?
 2. When would you deliberately choose Ask Mode over Agent Mode?
 3. What are the risks of using Agent Mode for everything?
 4. How does Agent Mode enforce "human-in-the-loop"?
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Next Steps

In [Lab 06: Custom Agents Intro](#), you'll learn how to create specialized agents for specific workflows, taking Agent Mode to the next level.

Additional Resources

- [GitHub Copilot Modes Documentation](#)
- [Diagram: Copilot Interaction Models](#)
- [When to Use Each Mode \(Decision Tree\)](#)