

# **FACILITATOR\_GUIDE\_PART2**

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# Facilitator's Guide: Advanced GitHub Copilot (Part 2)

**Duration:** 3 Hours

**Target Audience:** Developers who have completed Part 1 or have equivalent GitHub Copilot experience

**Prerequisites:** VS Code with GitHub Copilot extension, familiarity with custom instructions

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## Workshop Schedule at a Glance

Time	Module	Duration	Activity	Lab
0:00-0:10	<b>Module 0: Kickoff</b>	10 min	Welcome, Part 1 recap, Part 2 intro	-
0:10-0:35	<b>Module 1: Interaction Models</b>	25 min	Ask/Edit/Agent overview, live demo	<a href="#">Lab 05</a>
0:35-1:05	<b>Module 2: Custom Agents</b>	30 min	What are agents? Architecture Reviewer demo	<a href="#">Lab 06</a>
1:05-1:50	<b>Module 3: Workflow Agents</b>	45 min	Backlog, Architecture, Test Strategy workflows	<a href="#">Lab 07</a>
1:50-2:00	<b>Break</b>	10 min	Rest and questions	-
2:00-2:25	<b>Module 4: Agent Design</b>	25 min	Design principles, iteration, patterns	<a href="#">Lab 08</a>
2:25-3:00	<b>Module 5: Capstone</b>	35 min	Build your own production-ready agent	<a href="#">Lab 09</a>
3:00-3:10	<b>Module 6: Wrap-Up</b>	10 min	Key takeaways, governance, next steps	-

## Lab Summary

- **Lab 05: Interaction Models** (20 min) - Compare Ask, Edit, and Agent modes
  - **Lab 06: Custom Agents Intro** (15 min) - Explore Architecture Reviewer, Backlog Generator, Test Strategist
  - **Lab 07: Workflow Agents** (35 min) - Apply agents to 3 real workflows
  - **Lab 08: Agent Design** (15 min) - Analyze agent components and iterate on instructions
  - **Lab 09: Capstone** (30 min) - Design, build, test, and document your own agent
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# Overview

This guide helps facilitators deliver Part 2 of the AI Code Workshop, focusing on **advanced GitHub Copilot features** including interaction models (Ask/Edit/Agent) and **custom agents**. The workshop is highly interactive with 5 hands-on labs.

## Learning Objectives

By the end of Part 2, participants will:

- Understand Ask, Edit, and Agent interaction models
  - Use custom Copilot agents for specialized workflows
  - Design and build their own production-ready agents
  - Apply governance principles to AI tooling
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## Preparation Checklist

### For Facilitators

- Review all 5 labs (05-09) and practice the exercises
- Test the 3 custom agents (Architecture Reviewer, Backlog Generator, Test Strategist)
- Ensure presentation slides render correctly in Marp
- Prepare live demo scenarios for each interaction model
- Have backup examples ready for agent design patterns
- Set up screen sharing for agent mode demonstrations

### For Participants

- VS Code with GitHub Copilot extension (latest version)
- Access to workshop repository (.github/agents/ directory)
- Verify agents appear in Copilot Chat agent dropdown
- Clone repository and be on correct branch

## Environment Setup Verification

Before starting, confirm:

```
# Repository has custom agents
ls .github/agents/*.agent.md

# Expected output:
# architecture-reviewer.agent.md
# backlog-generator.agent.md
# test-strategist.agent.md
```

**Critical:** Custom agents must be in `.agent.md` format with YAML front-matter. Verify agents appear in VS Code Copilot Chat dropdown selector.

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## Module 0: Kickoff & Context Reset (0:00 – 0:10, 10 min)

### Facilitator Actions

#### Welcome and Part 1 Recap (5 min)

- Quick poll: Who completed Part 1? Who's joining directly for Part 2?
- Recap Part 1 key concepts:
  - Using Copilot for TDD and refactoring
  - Copilot Instructions as guardrails
  - Documentation and requirements workflows

#### Part 2 Introduction (5 min)

- Present the learning journey (show slides 1-5)
- Emphasize the shift from **code generation** to **workflow orchestration**
- Set expectations: Part 2 is more conceptual with hands-on validation

### Common Questions

#### Q: Do I need Part 1 to succeed in Part 2?

A: No, but you should be comfortable using GitHub Copilot for code generation and chat interactions.

#### Q: Will we write a lot of code?

A: Less code than Part 1. Focus is on designing agents and evaluating workflows.

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## Module 1: Copilot Interaction Models (0:10 – 0:35, 25 min)

### Section Breakdown

- 0:10-0:15 - Presentation: Ask/Edit/Agent overview (slides 6-10)
- 0:15-0:25 - Live Demo: Same task, three ways
- 0:25-0:30 - Guided Exercise: Participants try each mode
- 0:30-0:35 - Discussion and Q&A

## Facilitator Actions

### Presentation (5 min)

- Use slides 6-10 to explain the three modes
- Key point: **Agent Mode is not "better chat"** – it's a different execution model
- Show the decision tree diagram ([copilot-interaction-models.md](#))

### Live Demo: Same Task, Three Ways (10 min)

**Task:** Add a Priority property to the Task entity

#### 1. Ask Mode Demo:

- Open Copilot Chat
- Prompt: "How should I add a Priority property to the Task entity?"
- Show: You get guidance, but no changes

#### 2. Edit Mode Demo:

- Open `src/TaskManager.Domain/Tasks/Task.cs`
- Use inline chat (Ctrl+I): "Add a Priority property of type TaskPriority enum"
- Show: Direct file modification

#### 3. Agent Mode Demo:

- Open Copilot Chat in Agent Mode
- Prompt: "Add a Priority property to Task entity across all layers"
- Show: Multi-step plan with checkpoints

### Key Observation Points:

- Scope: Ask (informational), Edit (file-level), Agent (repository-level)
- Control: Ask (total), Edit (review diff), Agent (approve steps)
- Speed: Ask (instant), Edit (fast), Agent (deliberate)

### Guided Exercise (5 min)

- Participants try all three modes with a simple task
- Circulate to help with agent mode activation
- Troubleshoot: If agents don't appear, check `.agent.md` files exist

### Discussion Questions (5 min)

- When would you use Ask vs Edit?
- What scenarios require Agent mode?
- What are the risks of Agent mode?

## Common Issues

**Issue:** Agent mode doesn't appear

**Fix:** Ensure Copilot extension is updated, restart VS Code, verify `.agent.md` files

**Issue:** Agent mode produces unexpected results

**Fix:** Agents are non-deterministic; emphasize human review of plans

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## Module 2: Custom Agents Intro (0:35 – 1:05, 30 min)

### Section Breakdown

- 0:35-0:40 - Presentation: What are custom agents? (slides 11-15)
- 0:40-0:50 - Live Demo: Using Architecture Reviewer agent
- 0:50-1:00 - Guided Exercise: Lab 06 (hands-on)
- 1:00-1:05 - Debrief and Q&A

### Facilitator Actions

#### Presentation (5 min)

- Use slides 11-15 to introduce custom agents
- Mental model: **Agents are specialists, not task executors**
- Show agents vs instructions vs prompts comparison table

#### Live Demo: Architecture Reviewer (10 min)

##### 1. Setup:

- Open Copilot Chat in Agent Mode
- Select "Architecture Reviewer" from dropdown
- Open `src/TaskManager.Infrastructure/Legacy/LegacyTaskProcessor.cs`

##### 2. Demo Prompt:

Review the `LegacyTaskProcessor` class for Clean Architecture violations

##### 3. Show the structured output:

- Architecture Review Summary
- Layer Analysis
- Violations Found
- Recommendations

##### 4. Compare to standard chat:

- Use same prompt without agent
- Highlight differences: structure, depth, consistency

### Key Teaching Points:

- Agents provide **consistent, structured outputs**
- Agents encode **team knowledge** (Clean Architecture, DDD)
- Agents are **reusable** across team members

#### Guided Exercise: Lab 06 (10 min)

- Direct participants to [Lab 06: Custom Agents Intro](#)
- Participants explore all 3 agents:
  - Architecture Reviewer
  - Backlog Generator

- Test Strategist
- Circulate to help with agent invocation

### Debrief (5 min)

- Ask: Which agent was most useful? Why?
- Discuss: When would you NOT use an agent?
- Introduce concept of agent catalog

### Common Issues

**Issue:** Agent output is too verbose

**Teaching moment:** This is by design for transparency; can be refined in agent instructions

**Issue:** Agent misses obvious issues

**Teaching moment:** Agents are first-pass tools; humans still review

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## Module 3: Workflow Agents in Action (1:05 – 1:50, 45 min)

### Section Breakdown

- 1:05-1:10 - Presentation: Agent workflows (slides 16-20)
- 1:10-1:45 - Lab 07: Three real workflows
- 1:45-1:50 - Group discussion

### Facilitator Actions

#### Presentation (5 min)

- Use slides 16-20 to set up the lab
- Emphasize: We'll **compare standard chat vs agents** for each workflow
- Preview the 3 workflows: Backlog, Architecture, Testing

#### Lab 07: Hands-On (35 min)

Participants work through [Lab 07: Workflow Agents](#)

#### Workflow 1: Backlog Generation (10 min)

- Scenario: Add notification system
- Try standard chat first, then Backlog Generator agent
- Compare outputs

#### Workflow 2: Architecture Review (10 min)

- Scenario: Review NotificationService design
- Try standard chat first, then Architecture Reviewer agent
- Compare outputs

#### Workflow 3: Test Strategy (10 min)

- Scenario: Plan tests for task assignment
- Try standard chat first, then Test Strategist agent

- Compare outputs

### **Facilitator Circulation Tips:**

- Watch for participants skipping standard chat comparison
- Help participants articulate **why** structured output is better
- Encourage note-taking for reflection questions

### **Group Discussion (5 min)**

- Which agent provided the most value?
- Did agents catch issues standard chat missed?
- What are the limitations?
- When would standard chat be better?

### **Teaching Moments**

#### **When agents shine:**

- Repeatable workflows
- Need for consistency
- Encoding team standards

#### **When agents struggle:**

- Unique, one-off scenarios
- Highly creative exploration
- Context outside their expertise

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### **Break (1:50 – 2:00, 10 min)**

#### **Facilitator Notes:**

- Use this time to address 1-on-1 questions
- Check in with anyone struggling
- Prepare for Module 4 (agent design)

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## **Module 4: Designing Effective Agents (2:00 – 2:25, 25 min)**

### **Section Breakdown**

- **2:00-2:05** - Presentation: Agent design principles (slides 21-26)
- **2:05-2:20** - Lab 08: Design patterns and iteration
- **2:20-2:25** - Key takeaways discussion

### **Facilitator Actions**

#### **Presentation (5 min)**

- Use slides 21-26 to introduce design principles
- Core message: **Agents are products, not prompts**

- Show the 7 components of agent instructions

### Critical Teaching Points:

#### 1. Role-based vs Task-based:

- Bad: "Generate unit tests"
- Good: "Test Strategist who proposes test strategies"

#### 2. Explicit Constraints:

- Show ALWAYS/NEVER examples
- Emphasize: What's unstated is undefined

#### 3. Structured Outputs:

- Consistency requires format
- Show before/after examples

### Lab 08: Hands-On (15 min)

Participants work through [Lab 08: Agent Design](#)

#### Exercise 1: Analyze Existing Agents (10 min)

- Participants dissect the 3 workshop agents
- Map components: Identity, Responsibilities, Constraints, etc.
- Fill in the analysis template

#### Exercise 2: Iteration Exercise (5 min)

- Modify Test Strategist to avoid over-testing
- Add constraint: "Focus on high-value tests only"
- Re-test and observe behavior change

### Facilitator Tips:

- Emphasize: Iteration is expected and normal
- Show your own iteration examples
- Normalize "failing fast" with agents

### Discussion (5 min)

- What makes a good agent?
- How many iterations before "production-ready"?
- Who should own agent governance?

### Common Pitfalls to Address

1. **Task-based agents** → Guide toward role-based
  2. **Vague instructions** → Demand specificity
  3. **Over-scoping** → Encourage focus
  4. **No testing** → Make testing a requirement
  5. **Set-and-forget** → Normalize continuous iteration
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# **Module 5: Capstone Lab (2:25 – 3:00, 35 min)**

## **Section Breakdown**

- **2:25-2:30** - Presentation: Capstone overview (slides 27-30)
- **2:30-2:55** - Lab 09: Build your own agent
- **2:55-3:00** - Group share (optional)

## **Facilitator Actions**

### **Presentation (5 min)**

- Use slides 27-30 to introduce the capstone
- Participants will **build a production-ready agent from scratch**
- Walk through the 6-step process

### **Lab 09: Build Your Own Agent (25 min)**

Participants work through [Lab 09: Capstone](#)

#### **Step 1: Select Role (5 min)**

- Participants choose from 5 options or propose their own
- Encourage: Pick something you'll actually use

#### **Step 2: Define Success Criteria (5 min)**

- Write 5 success criteria
- Define 3 test scenarios
- Facilitator circulates to validate criteria

#### **Step 3: Create Agent Definition (10 min)**

- Use the template to build .agent.md file
- Save to .github/agents/[name].agent.md
- Facilitator helps with YAML front-matter syntax

#### **Step 4: Test Agent (5 min)**

- Run test scenarios
- Record results
- Identify issues

#### **Step 5: Iterate (optional, if time)**

- Refine based on test results
- Re-test

#### **Step 6: Document (optional, if time)**

- Create usage guide

#### **Group Share (5 min, optional)**

- If time allows, ask 2-3 participants to demo their agents

- Focus: What did you build? What surprised you?

## Facilitator Tips

### Time Management:

- Steps 5-6 are optional if time is tight
- Minimum deliverable: Steps 1-4 complete

### Helping Struggling Participants:

- Guide toward simpler roles (Code Reviewer, Documentation Writer)
- Provide pre-built examples as scaffolds
- Pair participants if needed

### Advanced Participants:

- Challenge: Build two complementary agents (Bonus Challenge)
  - Encourage: Write full test scenarios (from docs/requirements/agent-scenarios/)
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## Module 6: Wrap-Up & Governance (3:00 – 3:10, 10 min)

### Section Breakdown

- 3:00-3:03 - Key takeaways recap (slides 31-35)
- 3:03-3:07 - Governance discussion
- 3:07-3:10 - Next steps and closing

### Facilitator Actions

#### Key Takeaways (3 min)

- Use slides 31-35 to recap the workshop
- Hit these points:
  - Ask/Edit/Agent - Use the right mode
  - Custom agents - Specialists, not prompts
  - Role-based design - Focus on WHO
  - Iterate continuously - Agents improve over time
  - Humans accountable - Agents assist, you decide

#### Governance Discussion (4 min)

- Ask: How should teams govern agents?
- Discuss:
  - Version control (git)
  - PR review process
  - Catalog maintenance
  - Deprecation strategy
- Reference: [Agent Governance Guide](#)

## **Next Steps (3 min)**

- Share the adoption roadmap (slide 36)
  - Week 1: Use existing agents
  - Week 2: Draft your own agent
  - Week 3: Test and refine
  - Week 4: Share with team
- Point to resources: Catalog, Design Guide, Governance Guide
- Encourage: Open issues for feedback

## **Closing**

- Thank participants
  - Share feedback survey (if applicable)
  - Open floor for final questions
- 

# **Post-Workshop Follow-Up**

## **For Facilitators**

### **Immediately After:**

- Collect feedback (survey or direct)
- Note what went well / what struggled
- Update this guide with lessons learned

### **Within 1 Week:**

- Share workshop materials with participants
- Create a Slack/Teams channel for ongoing questions
- Schedule optional office hours for agent design help

### **Within 1 Month:**

- Review agent adoption metrics (if tracking)
- Gather usage feedback on workshop agents
- Plan iteration on workshop content

## For Participants

### Immediately After:



Review your capstone agent



Identify 1-2 workflows to try agents with



Share workshop experience with team

### Within 1 Week:



Use workshop agents in daily work



Document one real scenario where agents helped



Identify one workflow to automate with custom agent

### Within 1 Month:



Build and test your own production agent



Share with team and gather feedback



Contribute to team agent catalog

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## Troubleshooting Guide

### Custom Agents Not Appearing

**Symptoms:** Agents don't show in Copilot Chat dropdown

#### Fixes:

1. Verify .agent.md files exist in .github/agents/
2. Check YAML front-matter syntax (name, description, tools, model)
3. Restart VS Code
4. Update GitHub Copilot extension to latest version
5. Verify workspace is a git repository

### Agent Behavior Inconsistent

**Symptoms:** Same prompt yields different results

**Explanation:** This is expected! LLMs are non-deterministic.

## **Guidance:**

- Emphasize structured outputs reduce variance
- Teach participants to refine prompts iteratively
- Normalize re-running agents for better results

## **Agent Goes Off-Track**

**Symptoms:** Agent produces output outside its scope

### **Fixes:**

- Add stronger constraints (NEVER clauses)
- Narrow the role definition
- Add examples of out-of-scope scenarios
- Refine output format to be more prescriptive

## **Participants Struggle with Agent Design**

**Symptoms:** Blank stares during capstone lab

### **Facilitator Actions:**

- Pair participants for collaborative design
- Provide scaffolded templates with partial completion
- Walk through one example agent design as a group
- Simplify: Start with Code Reviewer agent (most familiar)

## **Time Management Issues**

### **If running behind:**

- Skip Exercise 2 in Lab 08 (iteration exercise)
- Reduce capstone to Steps 1-3 only (no testing)
- Skip group share in Module 5

### **If running ahead:**

- Add Bonus Challenge in Lab 09
- Facilitate deeper governance discussion
- Do live agent design as a group exercise

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## **Appendix A: Quick Reference**

### **Workshop Structure**

<b>Module</b>	<b>Time</b>	<b>Duration</b>	<b>Focus</b>
0	0:00-0:10	10 min	Kickoff & Context
1	0:10-0:35	25 min	Interaction Models
2	0:35-1:05	30 min	Custom Agents Intro
3	1:05-1:50	45 min	Workflow Agents Lab

<b>Module</b>	<b>Time</b>	<b>Duration</b>	<b>Focus</b>
Break	1:50-2:00	10 min	Rest
4	2:00-2:25	25 min	Agent Design
5	2:25-3:00	35 min	Capstone Lab
6	3:00-3:10	10 min	Wrap-Up

## Key Resources

- **Labs:** docs/labs/lab-05-\*.md through lab-09-\*.md
- **Presentation:** docs/presentations/advanced-github-copilot.md
- **Agents:** .github/agents/\*.agent.md
- **Diagrams:** docs/design/diagrams/
- **Guides:** docs/guides/custom-agent-catalog.md, agent-design-guide.md, agent-governance.md
- **Test Scenarios:** docs/requirements/agent-scenarios/

## Agent Template (Quick Reference)

```
---
name: "agent-name"
description: 'Brief description'
tools: [changes]
model: Claude Sonnet 4
---
```

# Agent Name

You are an expert [role].

```
## Responsibilities
## Context
## Constraints
## Analysis Process
## Output Format
## Tone
```

---

## Appendix B: Facilitator Self-Assessment

After delivering the workshop, reflect on these questions:

### Content Delivery:



Did I balance presentation vs hands-on time well?



Were participants engaged throughout?



Did I provide enough real-world examples?

### **Lab Facilitation:**

Did participants complete all labs?

Were instructions clear?

Did I circulate enough to help struggling participants?

### **Agent Demos:**

Were my agent demos clear and compelling?

Did I show agent iteration effectively?

Did I emphasize human accountability?

### **Governance Discussion:**

Did participants understand governance importance?

Did we discuss team vs org-level standardization?

Did I set clear next steps?

### **Overall:**

What went better than expected?

What would I change for next time?

What feedback did I receive?

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## **Appendix C: Frequently Asked Questions**

### **Before the Workshop**

#### **Q: Do participants need to complete Part 1 first?**

A: No, but they should be comfortable with GitHub Copilot for code generation and chat.

#### **Q: What if participants don't have Copilot access?**

A: They can't fully participate. Ensure Copilot licenses are provisioned in advance.

#### **Q: How technical is Part 2 compared to Part 1?**

A: Less coding, more conceptual. Focus is on design, workflows, and governance.

## **During the Workshop**

**Q: Why use custom agents instead of just better prompts?**

A: Agents provide consistency, encode team knowledge, and are reusable across the team.

**Q: Can agents execute code changes automatically?**

A: Agent mode requires human approval at checkpoints. Never blindly trust agent output.

**Q: How do we prevent "prompt sprawl" with many agents?**

A: Maintain a catalog, enforce review process, deprecate unused agents.

**Q: Should agents be org-wide or team-specific?**

A: Both. Architecture/Security agents → org-wide. Workflow agents → team-specific.

## **After the Workshop**

**Q: How do I measure agent adoption success?**

A: Track: agent usage frequency, time saved, consistency improvements, team feedback.

**Q: What if my custom agent doesn't work well?**

A: Normal! Iterate on instructions, test with more scenarios, gather team feedback.

**Q: Can I share my custom agents publicly?**

A: Yes, but ensure they don't contain proprietary knowledge or security-sensitive rules.

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## **Appendix D: Customization Notes**

This workshop is designed to be customizable. Consider these adaptations:

### **For Different Durations**

#### **2-Hour Version (Condensed):**

- Skip Module 0 (assume Part 1 completion)
- Combine Modules 1 & 2 (20 min)
- Shorten Module 3 (30 min)
- Skip Module 4 (agent design theory)
- Focus on Module 5 (capstone only)

#### **4-Hour Version (Extended):**

- Add deeper governance discussion (20 min)
- Include group agent design exercise (30 min)
- Add agent testing workshop (20 min)
- Include agent scenario walk-throughs (20 min)

### **For Different Audiences**

#### **Senior Engineers:**

- Emphasize governance and architecture
- Challenge: Build complex, multi-agent workflows

- Focus: Encoding expert knowledge in agents

### **Junior Engineers:**

- Emphasize learning from agent outputs
- Provide more scaffolding in capstone
- Focus: Using agents to accelerate learning

### **Engineering Managers:**

- Emphasize team adoption and metrics
- Focus: Governance, standardization, ROI
- Challenge: Design org-level agent strategy

## **For Different Tech Stacks**

### **Python:**

- Replace .NET examples with Python equivalents
- Use pytest for testing scenarios
- Adapt architecture constraints (FastAPI, Flask, etc.)

### **Java:**

- Replace .NET examples with Spring Boot
- Use JUnit for testing scenarios
- Adapt architecture constraints (Spring layers)

### **JavaScript/TypeScript:**

- Replace .NET examples with Node.js/Express
- Use Jest for testing scenarios
- Adapt architecture constraints (NestJS, Next.js, etc.)

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## **End of Facilitator's Guide - Part 2**

For questions or suggestions, open an issue in the workshop repository.