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Exam : GH-600

**Title : Developing in Agentic AI
Systems**

Version : DEMO

1.HOTSPOT

Case study

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Contoso has a second repository named repo2 that contains a legacy .NET application named App1 built by using .NET 6. repo2 has a multi-agent workflow for modernization tasks.

Contoso enables the Model Context Protocol (MCP) registry and allows the Microsoft Learn MCP Server. Every developer must configure their own connection to the Learn MCP Server.

Problem Statements

The developers working in repo1 report that the Microsoft Learn documentation is NOT being retrieved when they attempt to validate a design by using agent1.

The testing team at Contoso identifies that the customer portal uses inconsistent UI styles, which leads to customer confusion and branding issues. The UI inconsistencies stem from variations in the folder structure.

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Requirements

Planned Changes

Contoso plans to have all agents and developers in repo1 use the Microsoft Learn MCP to ensure that reviews are validated by using the appropriate documentation. This must be implemented centrally. Contoso plans to leverage AI-powered coding agents to implement new portal features and pages.

Technical Requirements

App1 must be upgraded to .NET 10. A previous upgrade attempt was started by using the Copilot modernization agent, but the attempt was never finalized.

You plan to retry the upgrade. You must first analyze App1 by using AI, and then generate a report that contains breaking changes and deprecated patterns before retrying the upgrade.

All AI-generated code for UI styling must adhere to a predefined folder structure.

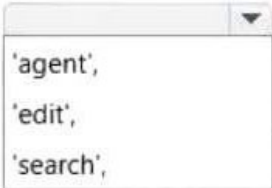
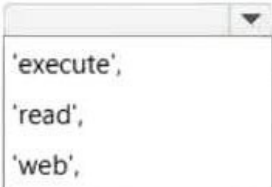
The architects at Contoso need help building implementation plans for repo1. The company wants to implement a new agent named agent2 to analyze the code base and the code requirements, and then respond with a detailed plan. The agent must NOT be able to edit files or run local commands.

The developers must be able to delegate work to the Copilot coding agent by assigning issues to the agent.

You need to implement agent2 to meet the technical requirements.

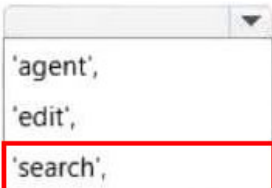
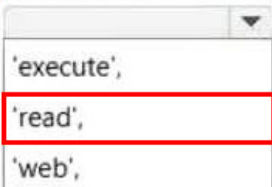
How should you complete the YAML configuration? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.

Answer Area

```
---
name: implementation-planner
description: Creates detailed implementation plans and technical specifications in markdown format
tools: [
  
  
  'microsoftdocs/mcp/docs_search',
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Answer:

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The developers must be able to delegate work to the Copilot coding agent by assigning issues to the agent.

Before App1 is upgraded, you need to verify each individual upgrade step and whether all tests have passed.

Which file should you use?

- A. assessment.md
- B. plan.md
- C. agent.md
- D. tasks.md

Answer: A

3.DRAG DROP

You have a GitHub repository that has a GitHub Actions workflow. The workflow runs an AI agent.

You need to ensure that the default GITHUB_TOKEN permissions are read-only, and write access is granted to only the job that performs repository write operations. The workflow must be able to create and approve pull requests only when explicitly enabled.

How should you complete the workflow? To answer, drag the appropriate values to the correct targets.

Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.

Values

contents: read

contents: write

issues: write

permissions: read-all

pull-requests: read

pull-requests: write

Answer Area

name: agent-pr

on:

pull_request:

permissions:

jobs:

analyze:

runs-on: ubuntu-latest

steps:

- uses: actions/checkout@v5

- name: Read-only analysis

run: echo "Analyze PR content and post a comment via API"

update_artifacts:

runs-on: ubuntu-latest

permissions:

steps:

- uses: actions/checkout@v5

- name: Update generated artifacts

run: |

echo "regenerate"

- name: Create pull request

run: echo "create PR"

Answer:

Values

contents: read

contents: write

issues: write

permissions: read-all

pull-requests: read

pull-requests: write

Answer Area

name: agent-pr

on:

pull_request:

permissions:

contents: read

jobs:

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runs-on: ubuntu-latest

steps:

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run: echo "Analyze PR content and post a comment via API"

update_artifacts:

runs-on: ubuntu-latest

permissions:

contents: write

steps:

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- name: Update generated artifacts

run: |

echo "regenerate"

- name: Create pull request

pull-requests: write

run: echo "create PR"

4.DRAG DROP

You have a GitHub repository that uses the GitHub Copilot coding agent to resolve issues and create draft pull requests. The repository uses GitHub Actions for CI, and reviewers rely on pull request timelines and workflow artifacts to understand what the agent did.

During long-running agent tasks, the reviewers lose track of decisions and validation steps, which causes repeated questions and reworks when context drifts between iterations.

You need to persist task progress and decisions as durable artifacts and ensure that the reviewers can verify what the agent did during and after execution by using GitHub as the system of record.

What should you do for each requirement? To answer, drag the appropriate actions to the correct requirements. Each action may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.

Actions	Answer Area
Select View session to stream live agent logs.	Create durable run outputs that are downloadable after completion:
Assign an issue and wait for the agent to view the issue.	Provide ongoing, human-reviewable task progress signals inside the pull request:
Select Approve and run workflows in the pull request merge box.	Provide a real-time view of agent actions for audit and troubleshooting:
Mention @copilot in the merged pull request to restart the agent.	
Watch for pull request body updates and pull request timeline events.	
Use the upload-artifact action and configure artifact retention in the CI workflow.	

Answer:

Actions	Answer Area
Select View session to stream live agent logs.	Create durable run outputs that are downloadable after completion: Use the upload-artifact action and configure artifact retention in the CI workflow.
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Mention @copilot in the merged pull request to restart the agent.	
Watch for pull request body updates and pull request timeline events.	
Use the upload-artifact action and configure artifact retention in the CI workflow.	

5.DRAG DROP

You have a GitHub Enterprise Cloud Organization that uses the GitHub Copilot coding agent to resolve issues asynchronously.

When an issue is assigned to GitHub Copilot, the agent creates a draft pull request, but your team cannot always tell whether the agent is actively working, has completed its session, or is awaiting workflow approval.

Which execution context does each signal indicate? To answer, drag the appropriate context to the correct signals. Each signal may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content. NOTE: Each correct selection is worth one point.

Contexts**Answer Area**

The agent session timed out and must be reassigned.

The eyes emoji (👁) reaction appears on the issue:

A human must manually approve and run the workflows.

The pull request timeline shows Copilot started work:

The agent cannot see the repository content due to exclusions.

A draft pull request exists, but GitHub Actions checks are not running:

The agent session is actively running and generating live logs.

The agent comment was ignored because the user lacks write access.

The agent acknowledges the assignment and will create the draft pull request.

Answer:**Contexts****Answer Area**

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