

AZ-2007: Accelerate app development by using GitHub Copilot

Course Outline

1) Get started with GitHub Copilot

- Explain what GitHub Copilot is and the advantages it provides
- Install the GitHub Copilot extensions for Visual Studio Code
- Explain the features of the GitHub Copilot extensions for Visual Studio Code and how to use them
- Configure the GitHub Copilot extensions for Visual Studio Code
- Lab: Examine GitHub Copilot settings and user interface features

2) Generate documentation using GitHub Copilot tools

- Generate explanations of code blocks, code files, and entire code workspaces using the GitHub Copilot Chat extension for Visual Studio Code
- Generate code project documentation using the GitHub Copilot Chat extension for Visual Studio Code
- Generate inline code documentation using the GitHub Copilot Chat extension for Visual Studio Code
- Lab: Analyze and document code using GitHub Copilot

3) Develop code features using GitHub Copilot tools

- Generate autocompletion suggestions based on code and code comments using the GitHub Copilot extension for Visual Studio Code
- Manage autocompletion suggestions by accepting, partially accepting, and dismissing suggestions
- Create chat prompts/questions that communicate your intent by using a combination of chat participants, slash commands, chat variables, and natural language text
- Create new code using the Chat View, Inline Chat, Quick Chat, and Smart Actions features provided by the GitHub Copilot Chat extension for Visual Studio Code
- Manage code update suggestions by accepting, partially accepting, editing, and discarding the suggestions generated by GitHub Copilot Chat
- Lab: Develop new code features using GitHub Copilot

4) Develop unit tests using GitHub Copilot tools

- Create unit tests using the GitHub Copilot and GitHub Copilot Chat extensions for Visual Studio Code
- Create unit tests that target edge cases and specific conditions using the GitHub Copilot and GitHub Copilot Chat extensions for Visual Studio Code
- Use Visual Studio Code, the .NET SDK, and the C# Dev Kit extension to create a test project and verify that your unit tests build and run successfully
- Lab: Develop unit tests using GitHub Copilot

5) Implement code improvements using GitHub Copilot tools

- Develop prompts/questions for GitHub Copilot Chat that help you to improve the code in your existing code projects

- Implement code update suggestions from GitHub Copilot Chat that improve existing code in the areas of code quality, reliability, performance, and security

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