

# AZ 2007- Accelerate App Development By Using GitHub Copilot



Days: 1

**Prerequisites:** An active subscription for GitHub Copilot is required for either a personal GitHub account or a GitHub account managed by an organization or enterprise. One or more years of code development experience is recommended. Some experience developing C# applications in Visual Studio Code with the C# Dev Kit extension is recommended.

**Description:** Learn how to accelerate app development by using GitHub Copilot and GitHub Copilot Chat in a Visual Studio Code environment.

## OUTLINE:

### LESSON 1 - GET STARTED WITH GITHUB COPILOT

- Examine AI tools from GitHub, OpenAI, and Microsoft
- Compare GitHub Copilot plans
- Review GitHub Copilot features
- Examine GitHub Copilot's setup process
- Configure GitHub Copilot settings in Visual Studio Code
- Manage GitHub Copilot policies, features, and extensions for individuals
- Examine GitHub Copilot's code completion features
- Examine GitHub Copilot's AI assistance features
- Examine GitHub Copilot Chat view features
- Examine GitHub Copilot inline chat, smart actions, and quick chat
- Module assessment

### LESSON 2 - GENERATE DOCUMENTATION USING GITHUB COPILOT TOOLS

- Review GitHub Copilot's "explain" and "document" features
- Examine GitHub Copilot prompts and keywords
- Analyze and explain code using GitHub Copilot
- Generate project documentation using GitHub Copilot
- Generate inline code documentation using GitHub Copilot
- Module assessment

### LESSON 3 - DEVELOP CODE FEATURES USING GITHUB COPILOT TOOLS

- Examine the code development features of GitHub Copilot

- Examine GitHub Copilot best practices
- Generate code using GitHub Copilot code completion suggestions
- Generate code using GitHub Copilot Chat
- Module assessment

### LESSON 4 - DEVELOP UNIT TESTS USING GITHUB COPILOT TOOLS

- Examine the unit testing tools and environment
- Create unit tests using the Generate Tests smart action
- Create unit tests using Inline Chat
- Create unit tests using Chat view modes
- Module assessment

### LESSON 5 - IMPLEMENT CODE IMPROVEMENTS USING GITHUB COPILOT TOOLS

- Review GitHub Copilot's code improvement features
- Examine GitHub Copilot's quick fix options
- Review code refactoring scenarios and GitHub Copilot best practices
- Refactor code using GitHub Copilot Inline Chat
- Refactor code using GitHub Copilot Chat modes
- Examine the GitHub Copilot code review features
- Module assessment
- 6 - Introduction to vibe coding
- What is vibe coding?
- Examine the vibe coding process
- Create effective prompts for GitHub Copilot

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## **AZ 2007- Accelerate App Development By Using GitHub Copilot**

- Identify product requirements and coding guidelines
- Customize GitHub Copilot Chat responses
- Module assessment