

MS - 4001 : Build collaborative apps for Microsoft Teams

Course Outline

Module 1: Get Started Building Apps for Microsoft Teams by Using Teams Toolkit for Visual Studio Code

- Describe the basics of Teams platform apps.
- Understand the benefits of using Teams Toolkit for Visual Studio Code to build apps for Teams.
- Create and debug a Teams app using Teams Toolkit for Visual Studio Code.

Module 2: Build Conversational Bots for Microsoft Teams

- Create a conversational bot for Microsoft Teams.
- Develop a bot with an adaptive card for enhanced interaction.
- Implement a bot that sends proactive messages to Teams.

Module 3: Build Message Extensions for Microsoft Teams and Microsoft Copilot for Microsoft 365

- Identify the suitable type of message extension command for different app scenarios.
- Create an action-based message extension.
- Develop a search-based message extension.
- Understand considerations for building message extensions for use as plugins in Copilot for Microsoft 365.

Module 4: Build Tabs for Microsoft Teams

- Create a tab within Microsoft Teams.
- Retrieve and manage context in a Teams tab.
- Develop a deep link to a Teams tab for seamless navigation.

Module 5: Connect Web Services to Microsoft Teams Using Webhooks

- Create an Incoming Webhook to receive messages from external services.
- Set up an Outgoing Webhook to send messages to external services.
- Process data received from an Incoming Webhook.
- Send data to an Outgoing Webhook for integration with other systems.

Module 6: Retrieve Microsoft 365 Data for Microsoft Teams Apps Using Microsoft Graph

- Describe how Microsoft Graph enhances Teams app functionality and user experience.
- Authenticate users to access Microsoft Graph in a Teams app.
- Configure permissions to access Microsoft Graph data.
- Retrieve user information using Microsoft Graph within a Teams app.

Module 7: Deploy a Microsoft Teams App to Azure by Using Teams Toolkit for Visual Studio Code

- Provision Azure resources using Teams Toolkit for Visual Studio Code.

- Deploy a Teams app to Azure with Teams Toolkit.
- Explore different methods to publish the app to your organization's store using Teams Toolkit.

Module 8: Guided Project: Build and Deploy a Microsoft Teams App Using Teams Toolkit for Visual Studio Code

- Develop a conversational bot.
- Create a message extension.
- Set up a webhook.
- Build a tab.
- Retrieve Microsoft 365 data using Microsoft Graph.
- Deploy the app source code to Azure.
- Distribute the app for all users in the organization.

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