



Build Collaborative Apps for Microsoft Teams (MS-4001)

COURSE OVERVIEW

Learn how to build and distribute Microsoft Teams apps that retrieve user information using the Microsoft Graph API. Practice building and deploying apps in the guided project at the end of the learning path.

WHO WILL BENEFIT FROM THIS COURSE?

Students wishing to build and deploy a Microsoft Teams app using Teams Toolkit for Visual Studio Code

PREREQUISITES

- Basic understanding of Microsoft Teams apps and their components, including adaptive cards and task modules
- Ability to program with JavaScript, TypeScript, and Node.js
- Experience using Visual Studio Code at the intermediate level
- Global administrator access to a Microsoft 365 tenant
- Access to a Microsoft Azure subscription

COURSE OBJECTIVES

- Get started building apps for Microsoft Teams by using Teams Toolkit for Visual Studio Code
- Build conversational bots for Microsoft Teams
- Build message extensions for Microsoft Teams and Microsoft Copilot for Microsoft 365
- Build tabs for Microsoft Teams
- Connect web services to Microsoft Teams using webhooks
- Retrieve Microsoft 365 data for Microsoft Teams apps using Microsoft Graph
- Deploy a Microsoft Teams app to Azure by using Teams Toolkit for Visual Studio Code
- Guided Project: Build and deploy a Microsoft Teams app using Teams Toolkit for Visual Studio Code

COURSE OUTLINE

Module 1: Get started building apps for Microsoft Teams by using Teams Toolkit for Visual Studio Code

- Teams Toolkit is an extension for Visual Studio Code and Visual Studio 2022. It helps developers create and deploy Microsoft Teams apps with integrated identity, cloud storage, and other services across Microsoft 365 and Azure. In this module, you'll learn how to build a Microsoft Teams app by using Teams Toolkit for Visual Studio Code.



Module 2: Build conversational bots for Microsoft Teams

- Learn how to create bots to enable conversational interactions with users through text, interactive cards, and task modules in Microsoft Teams.

Module 3: Build message extensions for Microsoft Teams and Microsoft Copilot for Microsoft 365

- Learn how to build message extensions that allow users to interact with external services within their flow of work in Microsoft Teams and Microsoft Copilot for Microsoft 365.

Module 4: Build tabs for Microsoft Teams

- Learn how to build tabs that provide embedded web experiences within Microsoft Teams.

Module 5: Connect web services to Microsoft Teams using webhooks

- Learn how to create Incoming Webhooks and Outgoing Webhooks that connect web services to teams and channels in Microsoft Teams.

Module 6: Retrieve Microsoft 365 data for Microsoft Teams apps using Microsoft Graph

- Learn how to authenticate users with Microsoft identity platform, configure permissions, and retrieve user data for your Microsoft Teams app using the Microsoft Graph API.

Module 7: Deploy a Microsoft Teams app to Azure by using Teams Toolkit for Visual Studio Code

- When you create applications for Microsoft Teams, depending on your requirements, you might choose to host the web app in Azure. You might also add features that require cloud resources, like Azure Key Vault or Azure Functions. If you're creating bots, you'll need to use Azure Bot.
- The Teams Toolkit for Visual Studio Code extension streamlines the process of setting up and deploying cloud resources by giving you a simple way to select and provision these resources during the app development stage. It also caters to easy publishing of the app, whether you need to publish to your organization for other users to test or to create app packages that can then be uploaded manually in Teams. In this training module, you'll understand more about the infrastructure requirements and how to set up things for hosting and publishing your app in Teams.

Module 8: Guided Project: Build and deploy a Microsoft Teams app using Teams Toolkit for Visual Studio Code

- Practice building and updating Microsoft Teams apps that retrieve data from Microsoft Graph. Deploy to Azure and publish your app for users in an organization.

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