

Build Interactive Apps with Google Assistant

Fundamental 6 Steps 5 hours 29 Credits

With Google Assistant expected to be part of over a billion consumer devices by the end of this year, this Quest teaches you how to build practical Google Assistant applications integrated with Google Cloud services via APIs. Example apps will use the Dialogflow conversational suite and the Actions and Cloud Functions frameworks. Over the course of 5 labs, you will build 5 different applications that explore useful and fun tools you can extend on your own. No hardware required! These labs use the cloud-based Google Assistant simulator environment for developing and testing, but if you do have your own device, such as a Google Home or a Google Hub, additional instructions are provided on how to deploy your apps to your own hardware. Looking for a hands on challenge lab to demonstrate your skills and validate your knowledge? On completing this quest, finish the additional challenge lab at the end of this quest to receive an exclusive Google Cloud digital badge.

Infrastructure Application Development Business Transformation

Prerequisites:

No prerequisites required, but comfort with Javascript and Node.js programming will be helpful. Students who have completed the [Baseline: Infrastructure](#) will obtain a good conceptual understanding of Cloud Functions before starting this Quest.

Quest Outline

[Google Assistant: Qwik Start - Dialogflow](#)

In this lab you will learn the fundamentals of Google Assistant by building a quote generator application with Actions and Dialogflow.

30 minutes

Introductory

1 Credit

[Introduction to APIs in Google](#)

This lab will teach you about the architecture and basic functioning of Application Programming Interfaces (APIs). This will be supplemented with hands-on practice, where you will configure and run Cloud Storage API methods in Cloud Shell.

1 hour

Introductory

1 Credit

[Google Assistant: Build an Application with Dialogflow and Cloud Functions](#)

In this lab, you will build a Google Assistant application with Dialogflow and Cloud Functions for Firebase.

45 minutes

Fundamental

5 Credits

[Google Assistant: Build a Youtube Entertainment App](#)

In this lab, you will build a Google Assistant app with Dialogflow, Cloud Functions, and the Youtube API to generate the top music videos for any music artist. .

1 hour

Advanced

7 Credits

[Google Assistant: Build a Restaurant Locator with the Places API](#)

In this lab you will build an Assistant application that takes in a user's location and preferences and passes them to the Places API via a Cloud Function to generate the ideal spot to eat.

1 hour

Advanced

7 Credits

[Build Interactive Apps with Google Assistant: Challenge Lab](#)

This challenge lab tests your skills and knowledge from the labs in the Build Interactive Apps with Google Assistant Quest. You should be familiar with the content of the labs before attempting this lab.

1 hour

Expert

9 Credits

Quest Complete!

Congrats! You completed this quest and earned a badge. Become a cloud expert and start another.

