OK Google: Build Interactive Apps with Google Assistant

Fundamental 5 Steps 4 hours 20 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.

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

Quest Complete!

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