

Advance App Development with AppSheet

Course Description

This course introduces AppSheet, a no-code application development platform. Participants will learn to create custom applications without writing any code. The course covers topics such as understanding data, adding behaviors to an app, securing an app, integrating an app with external services, advanced app design, and managing an app. Participants will also learn to troubleshoot common problems and errors that may occur in the app development process.

Audience

This course is designed for individuals who want to learn how to develop custom applications without programming skills. It is suitable for business owners, entrepreneurs, project managers, IT professionals, and anyone interested in creating custom applications.

Pre-requisite Knowledge/Skills

Participants should have basic computer skills and knowledge of spreadsheet applications. No prior programming experience is required.

Course Objectives

By the end of the course, participants will be able to:

- Create custom applications using AppSheet without writing any code.
- Organize data and add functionality to an app with AppSheet data types and expressions.
- Add behaviors to an app with AppSheet actions and behaviors.
- Secure an app with AppSheet's security features.
- Integrate an app with external applications and services.
- Improve app scalability and performance with advanced app design techniques.
- Perform management functions such as versioning, upgrading, and monitoring an app.
- Troubleshoot common problems and errors that may occur during the app development process.

Course Outline

The course comprises 32-hours of theory and Labs. . It's divided into 7 different modules and 3 Projects.

Module 0: Introduction

- Introduction to the Appsheet.

Module 1: Understanding Data

- Organizing data for your app
- Using keys
- AppSheet data types
- App column formulas
- AppSheet expressions
- Slices
- Constraints
- Data validation
- Getting Started with Google Cloud Platform and Qwiklabs
- Lab: Working with Data in AppSheet
- Module Review
- Quiz

Module 2: Adding Behaviors to Your App

- Actions
- Actions for app navigation
- Actions for data changes
- Actions for external communication
- Composite actions
- Lab: Adding Actions to an App in AppSheet
- Automation
- Using offline sync
- View events
- Customizing input forms
- Lab: Using View Events and Custom Forms in AppSheet
- Module Review
- Quiz

Module 3: Securing Your App

- AppSheet security
- Application access control
- Data access control
- Authentication and authorization
- Security filters
- Auditing
- Lab: Securing Your AppSheet App

- Private tables
- Using sensitive information
- Module Review
- Quiz

Module 4: Integrations

- AppSheet REST API
- Apigee REST API
- AppSheet webhooks
- Webhook to the AppSheet API
- Custom webhooks
- Lab: Integrating Your AppSheet App with External Services
- Module Review
- Quiz

Module 5: Advanced App Design

- Data scalability
- AppSheet user settings
- Lab: Using Data Partitions with Your AppSheet App
- App performance
- Using large datasets
- Multi-language app support
- App user feedback
- Module Review
- Quiz

Module 6: Managing Your App

- Versioning your app
- Upgrading your app
- Monitoring your app
- App authoring
- Team collaboration
- Module Review
- Quiz

Module 7: Troubleshooting Your App

- Data, access and sync errors
- Troubleshooting common problems