

Google Cloud AppSheet Developer Course

Course Duration: 40 Hours

Course code: GCAD

1. Course Overview

This five-day course focuses on building no-code and low-code applications using Google Cloud AppSheet. It provides hands-on experience in creating powerful business applications without traditional programming by leveraging data sources like Google Sheets, Excel, and cloud databases. Learners will develop skills to design, automate, and deploy scalable applications integrated with Google Workspace and other enterprise systems.

2. What you'll learn?

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

- Understand AppSheet architecture and capabilities
- Build no-code/low-code applications using AppSheet
- Design interactive user interfaces and workflows
- Connect and manage data from multiple sources
- Automate business processes using AppSheet bots
- Implement security and access control
- Integrate AppSheet apps with Google Cloud services
- Deploy and manage enterprise-grade applications

3. Target Audience

- Business analysts and citizen developers
- IT professionals and application developers
- Process automation specialists
- Entrepreneurs and small business owners

4. Pre-Requisites

Before taking this course, you should have:

- Basic understanding of spreadsheets (Google Sheets/Excel)
- Familiarity with business processes and workflows
- Basic knowledge of cloud applications (preferred)
- No coding experience required (optional advantage)

5. Course content

Module 1: Course Introduction

- Introduction and course logistics
- Overview of AppSheet and no-code development
- Course objectives and lab setup

Module 2: Introduction to AppSheet Platform

- What is AppSheet?
- AppSheet architecture and components
- Use cases and business applications
- Navigating the AppSheet interface

Module 3: Data Management in AppSheet

- Connecting data sources (Google Sheets, Excel, SQL)
- Structuring and organizing data
- Data types and columns
- Managing relationships between tables

Module 4: Building Your First App

- Creating an app from data
- Configuring app structure
- Testing and previewing apps
- Publishing basic apps

Module 5: Designing User Interface (UX/UI)

- Views (Table, Deck, Gallery, Form, Dashboard)
- Customizing layouts and themes
- User experience best practices
- Responsive design

Module 6: App Logic and Expressions

- Introduction to AppSheet expressions
- Conditional logic and formulas
- Virtual columns and computed values
- Data validation rules

Module 7: Actions and Workflows

- Creating actions in AppSheet
- Automating tasks with workflows
- Event-driven processes
- User-triggered automation

Module 8: Automation with Bots

- Introduction to AppSheet automation
- Creating bots and triggers
- Task automation (email, notifications)
- Integrating workflows across systems

Module 9: Security and Access Control

- User authentication and authorization
- Role-based access control
- Data security and privacy
- Managing user permissions

Module 10: Integrations and APIs

- Integrating with Google Workspace
- Connecting to external APIs
- Using webhooks
- Data synchronization across platforms

Module 11: Offline and Sync Capabilities

- Offline app functionality
- Sync behavior and performance
- Handling conflicts and data consistency
- Optimizing sync operations

Module 12: Performance Optimization

- Improving app performance
- Reducing load time
- Efficient data handling
- Best practices for scalability

Module 13: Deployment and App Management

- Publishing apps for users
- Managing versions and updates
- Monitoring app usage
- Maintenance and support

Module 14: Advanced Features and Use Cases

- Advanced UX customization
- Complex workflows and automation
- Industry-specific use cases
- Scaling enterprise applications

Module 15: Capstone Project and Real-World Implementation

- Building a complete business application
- Implementing automation and integrations
- Testing and deployment
- Final project and assessment

