

Qlik Sense Development (Customise Course)

Duration: 5 day/ 8 hour

- **Prerequisite:** Good understanding of HTML, CSS related to web development will be a great advantage
- Basic understanding of Basic JavaScript and jQuery basics
- Basic understanding of JSON
- Good knowledge of Qlik sense basic i.e. understanding of frontend, backend, visualization, variables etc.

Day 1: Introduction and Setup

8 hours

1. **Introduction to Qlik Sense Development**
 - Overview of Qlik Sense
 - Importance of Custom Development
 - Setting Up the Development Environment
2. **Qlik Sense Basics**
 - Understanding the Qlik Sense Interface
 - Creating Basic Visualizations
 - Exploring Data Models
3. **Introduction to Mashups**
 - What is a Mashup?
 - Benefits of Using Mashups
 - Overview of Mashup Editor

Day 2: Mashup Development

8 hours

1. **Advanced HTML/CSS for Mashups**
 - Responsive Design Techniques
 - Styling Qlik Sense Objects
2. **JavaScript Basics**
 - Introduction to JavaScript
 - Using JavaScript in Mashups
 - Interacting with Qlik Sense Objects
3. **Qlik Sense Mashup Development**
 - Creating Your First Mashup
 - Embedding Qlik Sense Objects in Web Pages
 - Customizing Mashup Layouts
4. **Qlik Sense APIs for Mashups**
 - Introduction to Qlik Sense Capabilities API
 - Using Qlik Sense Capability API in Mashups
 - Fetching and Displaying Data

Day 3: Extension Development

8 hours

- 1. Introduction to Qlik Sense Extensions**
 - What are Extensions?
 - Types of Extensions
 - Examples of Popular Extensions
- 2. Building Your First Extension**
 - Extension Architecture
 - Creating a Simple Extension
 - Packaging and Deploying Extensions
- 3. Advanced Extension Development**
 - Using JavaScript in Extensions
 - Working with Qlik Sense Properties
 - Handling Extension Events
- 4. Customizing Extensions**
 - Adding Custom Styles with CSS
 - Creating Custom Templates

Day 4: Advanced Topics

8 hours

- 1. Working with Variables**
 - Introduction to Variables in Qlik Sense
 - Creating and Using Variables
 - Best Practices for Variables
- 2. Master Items**
 - Introduction to Master Items
 - Creating and Managing Master Items
 - Using Master Items in Visualizations
- 3. Set Expressions**
 - Introduction to Set Analysis
 - Writing Set Expressions
 - Practical Examples of Set Expressions
- 4. Development APIs**
 - Overview of Qlik Sense APIs
 - Practical Applications of Qlik Sense APIs

Day 5: Integration

8 hours

- 1. Integrating Qlik Sense with Other Systems**
 - Connecting to External Data Sources
 - Using REST APIs with Qlik Sense
 - Practical Integration Examples
- 2. API**
 - Bookmark API
 - Export Data

- Field API
- Variable API
- Visualization API