Power Apps Development: From No-Code to Low-Code Mastery

<u>Duration: 24 hours</u>

Course description

This claborate course on PowerApps covers essential topics for both no-code and low-code development using Power Apps. Starting with a recap of the Power Platform components, data connectors, and environment management, the course then delves into creating canvas apps, utilizing controls, writing expressions, and managing data with galleries, forms, and collections. Advanced modules focus on low-code development, including working with Dataverse, APIs, plugins, and the Power Apps component framework. Additionally, the course covers model-driven apps, integrating Power Apps with Azure, and connecting to external systems. By the end of the course, attendees will be proficient in building, extending, and integrating Power Apps solutions, enabling them to create robust and scalable applications for their organizations

Learning objectives

After completing this course, students will be able to:

- Recap of fundamental Power Apps concepts
- Development Tools with Power Apps
- PCF and Plugins
- Azure Development with Power Apps.

Audience prerequisites

- Basic data modelling, user experience design, requirements analysis, and process analysis skills.

- A personal growth mindset and are comfortable using technology to solve business problems.

- An understanding of the operational need and have a vision of the desired outcome. They approach problems with phased and iterative strategies

- Basic understanding of programming concepts, with fundamental knowledge of any programming language for advance concepts, along with basic azure knowledge

- Fundamental knowledge of Power apps

Course Content

Module 1: Recap on Microsoft Power Platform

- Components of Power Platform

- Data Connectors

- Manage environments and Solutions

Module 2: No Code development in Power Apps

- Create a canvas app in Power Apps

- Using and describing controls in a canvas app in Power Apps

- Writing PowerApps Expressions

- Displaying Data using Galleries

- Filters and sorting Data in Canvas

- Creating and editing Forms

- Variables and Collections

- CRUD operations and Patch

- Managing apps in Power Apps

- Delegation in Power Apps

- Designing Reusable Components

Module 3: Low Code Development in Power Apps

- Introduction to Developer tools for Low code development

- Working With Dataverse

- Introduction to Dataverse API

- Working with Dataverse Web API

- Overview of Plugins

- Create Plugins for extending with Dataverse

- Get started with Power Apps component framework

- Create a simple PCF control

Module 4: Model-driven apps in Power Apps

- Introduction to model-driven apps

- Create model-driven apps

- Design user experience

- Extending model driven apps with client Scripting

- Best practices with Client Scripting

Module 5: Integrating development with Azure

- Integrate Dataverse Azure Solutions

- Explore Azure Functions

- Develop Azure Functions

Module 6: Integrating PowerApps with External systems

- Calling External Services using HTTP Actions

- Creating and testing Custom Connectors