Mastering Power Apps and Flows Creation

Course description

This comprehensive course on is curated to take you from the basics to advanced apps and flow building techniques. You'll start by getting familiar with the Power Platform, creating Canvas Apps, and writing expressions. The course then explains building data-driven Canvas Apps, covering screen design, galleries, forms, and data manipulation. You'll further delve into advanced development with reusable components and the Power Apps component framework. The course also explains working with Dataverse, including data modeling and building Model-Driven apps. You'll gain a solid foundation in Power Automate, learning to create and test flows, manage automations, and perform process mining. Advanced topics include managing content and approvals, integrating PowerApps with external systems, and automating desktop processes. Finally, you'll learn to integrate PowerApps with other important power platform tools like Power BI, embedding dashboards, extending reports, and designing real-time data flows. This course equips you with the skills to build sophisticated, automated solutions using the Power Platform.

Audience Pre-requisites

- Fundamental knowledge of Power Apps and Flows.
- 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 Javascript/ TypeScript and CLI.

Course Content

1. Getting Started with the Power Platform

- Getting Started with Power Platform
- Creating Canvas Apps
- Writing Power apps Expressions
- Working with connectors and Data Binding
- Understanding Delegation

2. Building Data -Driven Canvas Apps

- Screen Design Guidelines
- Different Between Gallery & Data table

- Different Type of Galleries in canvas
- Customizing the forms and gallery controls
- Using Table Functions to Filter and Sort Data
- Updating Data using Edit Forms and Data Cards
- Customizing SharePoint List forms
- Variables & Collections
- Using Patch
- Work with Search and Sort functions
- Logical Functions : If/ Nested If / Switch
- Update Functions

3. Development in Power Apps

- Designing Reusable Components
- Package Power apps using Power Platform CLI
- Power apps component framework

4. Model driven apps and Dataverse

- Work with Dataverse
- Design a data model with Dataverse
- Connecting with External data
- Building Model -Driven apps
- Creating a Custom entity
- Performing common actions with client script
- Business Process Flows

5. Getting Started with Power Automate

- Power Automate Fundamentals
- Creating and Testing Flows
- Writing Flow Expressions
- Use data operations
- Manage automations

6. Building Flows to Manage Content and Approvals

- Converting and Reshaping data
- Uploading data to Sharepoint
- Automating Approval processes
- Integrating Flow with Microsoft forms
- Understanding Parallel Execution

7. Integrating PowerApps with External systems

- Executing Child flows from a Parent Flow
- Creating and Testing Custom Connectors

8. Automate Desktop based processes with Power Automate

- Introduction to Desktop Flows
- Desktop Automation tools
- Creating a simple Flow with Power Automate for Desktop
- Record a desktop flow
- Work with desktop Flow variables
- Connect desktop Flows with Cloud flows.
- Connect flows with Cloud services like Outlook / SharePoint and teams
- Integrate flows with AI builder
- Test and share Flows
- Process Mining

9. Integrating PowerApps with Power BI

- Overview of Power BI Integration features
- Embedding Power BI dashboard Tiles in PowerApps
- Extending Power BI Reports using Canvas Apps
- Designing flows to update Real -Time Dashboards
- Triggering Flows using Power BI Dashboard Alerts