PowerApps with RPA

Course description

This course will teach how to build apps with low-code techniques to simplify, automate the business processes, and transform business tasks and processes using Microsoft Power Platform. This course will allow you to practice your App Maker skills by creating an end-to-end solution to solve a problem for a fictitious company along with automating both cloud and on prem tasks. The solution will include a Microsoft Dataverse database, Power Apps canvas app, and Power Automate Cloud and RPA flows.

Learning objectives

After completing this course, students will be able to:

- Design apps and automate workflows
- Create apps and automate workflows
- Analyse and visualize data in context of an app or automated workflow
- Implement and manage apps and automated workflows

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

Course Content

Module 1: Getting started with Microsoft Power Platform

- Components of Power Platform
- Data Connectors
- Manage environments and Solutions

Module 2: Microsoft Dataverse

- What is a relational database?
- Introduction to Microsoft Dataverse
- Create and manage tables in Microsoft Dataverse
- Create and manage columns in Microsoft Dataverse

- Create relationships between tables in Dataverse

- Create and define calculated and rollup columns in Dataverse

- Load/export data in Microsoft Dataverse

Module 3: Model-driven apps in Power Apps

- Introduction to model-driven apps

- Create model-driven apps

- Design forms

- Design views

- Design charts

- Design dashboards

- Business Rules

- Business Process Flows

Module 4: Canvas apps in Power Apps

- Introduction to canvas apps

- Create a canvas app in Power Apps

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

- Create formulas to change properties of a canvas app

- Navigation in a canvas app

- Managing apps in Power Apps

- Connect to other data in canvas apps

- Use imperative development techniques in canvas apps

Module 5: Create and use Analytics in Power BI

- Overview of Power BI

- Tools of Power BI

- Creating a simple Report in Power BI

- Create a Dashboard in Power BI service

Module 6: Automate your processes with Power Automate

- Introduction to automation in Dataverse

- Overview of Power Automate

- Creating cloud flows with Power Automate

- Triggers and Actions in Power Automate cloud flows

- Introduction to expressions in Power Automate

- Test and troubleshoot your flows

- Optimize your business processes with Process Advisor
- Power Automate Desktop Flows Introduction
- Create and manage desktop flows
- Desktop flow logic
- Automating Desktop Applications
- Automating Web Applications
- Connect Cloud flows with Desktop Flows
- Integrate PowerApps with Power Automate