Power Platform App Maker- Mastery Camp

Course description

This course will teach how to build apps with low-code techniques to simplify, automate, 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. The solution will include a Microsoft Dataverse database, Power Apps canvas app, and Power Automate 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

App Maker Audience profile

The App Maker builds solutions to simplify, automate, and transform tasks and processes for themselves and their team where they have deep expertise in the solution business domain. They have basic data modelling, user experience design, requirements analysis, and process analysis skills.

The App Maker creates and enforces business processes, structures digital collection of information, improves efficiency of repeatable tasks, and automates business processes. The App Maker uses the Maker tools of Power Platform to solve business problems. They may use advanced features of Microsoft apps and third-party productivity tools.

The App Maker is aware of the capabilities and limitations of available tools and understands how to apply them. The App Maker is self-directed, and solution focused. They may not have formal IT training but are comfortable using technology to solve business problems with a personal growth mindset. They understand the operational need and have a vision of the desired outcome. They approach problems with phased and iterative strategies.

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
- Export data from Dataverse and use Microsoft Excel to edit records.
- Manage Security 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
- Use specialized components in a model-driven form
- Manage settings and security model-driven app

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: 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

Module 6: Get started with visualising data with Power BI

- Overview of Power BI
- Explore what Power BI can do for you.
- Data Lifecycle in Power BI
- Tools of Power BI
- Prepare Data with Power BI
- Define your Data model
- Visualise data in Power BI
- Creating Reports in Power BI service
- Protect, publish, and share data in Power BI
- Create dashboards in Power BI
- Manage workspaces and datasets in Power BI

Module 7: Dataverse for Teams

- Introduction to Microsoft Dataverse for Teams
- Create apps with Power Apps and Dataverse for Teams
- Create workflows with Power Automate and Dataverse for teams
- Create reports with Power BI and Dataverse for teams

Module 8: Get Started with Copilot in Power Platform
- Build good prompts
- Create a Table with Copilot
- Modify the Table with Copilot
- Use Copilot to build a canvas app
- Add Copilot to a model-driven app
- Create a flow with Copilot in Power Automate
- Introduction to Copilot in Power BI